



ANTHROPOLOGY

Wednesday

Poster Session

Moderator: *Lara E. McCormick, PhD*
Omaha, NE

Co-Moderator: *Katie M. Rubin, PhD*
Defense POW/MIA Accounting Agency
Joint Base Pearl Harbor-Hickam, HI

- 11:30 a.m. - 1:00 p.m. **A1** **The Introduction of a Cranial Gunshot Trauma Photographic Atlas**
*Tessa Somogyi, MA**; *Elizabeth A. Evangelou, MA**; *Kevin E. Sheridan, PhD*;
*Elizabeth A. DiGangi, PhD**
- 11:30 a.m. - 1:00 p.m. **A2** **Fusion and Fracture: Forensic Implications of the Hyoid Bone**
*Laura C. Fulginiti, PhD**; *Andrew C. Seidel, PhD**; *Katelyn L. Bolhofner, PhD**
- 11:30 a.m. - 1:00 p.m. **A3** **The Frequency and Pattern of Cardiopulmonary Resuscitation (CPR) -Related Fractures in an Infant Autopsy Sample**
*Miriam E. Soto Martinez, PhD**; *Jason M. Wiersema, PhD*; *Julie M. Fleischman, PhD*;
Deborah C. Pinto, PhD; *Christopher Greeley, MD*; *Angela Bachim, MD*;
Marcella Donaruma-Kwoh, MD; *Si Gao, MS*; *Laney R. Feeser, MA*
- 11:30 a.m. - 1:00 p.m. **A4** **A Random Forest Approach to False Start Analysis**
*Kirsty Alsop, MSc**; *Waltraud Baier, PhD*; *Danielle Norman, PhD*; *Brian Burnett*;
Mark A. Williams, PhD
- 11:30 a.m. - 1:00 p.m. **A5** **Revisiting Serrated vs. Non-Serrated Kerf Marks in Sharp Force Trauma (SFT) Analyses**
*Keroshini Guynes**
- 11:30 a.m. - 1:00 p.m. **A6** **A Survey of Skeletal Trauma Within the Southeast Texas Applied Forensic Science Collection: A Wealth of Research Opportunity**
*Jennifer R. Kiely, MS**; *Kate M. Lesciotto, PhD*; *Sheree R. Hughes, PhD*
- 11:30 a.m. - 1:00 p.m. **A7** **Homicide Fracture Pattern Frequencies by Sex and Geographic Location**
*Cortney N. Hulse, MA**; *Kyra E. Stull, PhD*; *Laura D. Knight, MD*
- 11:30 a.m. - 1:00 p.m. **A8** **Patterning of Projectile Trauma Associated With a Historic World War II Battlefield Site**
*Willa R. Trask, PhD**; *Rebecca J. Wilson-Taylor, PhD**
- 11:30 a.m. - 1:00 p.m. **A9** **Communist Human Rights Violations in Poland (1944–1956): A Forensic Anthropological Perspective**
Krzysztof Fluder, MSc; *Matteo Borrini, PhD**; *Constantine Eliopoulos, PhD*
- 11:30 a.m. - 1:00 p.m. **A10** **Sex Estimation of a Croatian Population Based on Computed Tomography (CT) Scans of the Crania**
Carolane Radman, MD; *Zeljana Basic, PhD**; *Dragan Primorac, MD, PhD*; *Ivana Kruzic, PhD*
- 11:30 a.m. - 1:00 p.m. **A11** **A Preliminary Study of Sex Determination Using the Alveolar Ridge in Korean Adults**
*Dong-Ho Eddie Kim, BSc**; *U-Young Lee, MD, PhD*; *Yi-Suk Kim, MD, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 a.m. - 1:00 p.m. **A12** **Applying Posterior Probability Thresholds to Traditional Cranial Trait Sex Estimation Methods**
Patricia Avent; *Cris E. Hughes, PhD**; *Heather M. Garvin, PhD*

ANTHROPOLOGY

- 11:30 a.m. - 1:00 p.m. **A13** **Sex Estimation of Skulls and Crania From Colombia Using MorphoPASSE Program v1.0**
*Justin R. Maiers, MS**; Daniela Santamaria Vargas, BA; Elizabeth A. DiGangi, PhD;
Jonathan D. Bethard, PhD
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 a.m. - 1:00 p.m. **A14** **The Relationship of Enthesis Size to Muscle Size and Sexual Dimorphism in the Cranium and Clavicle in New Zealand and Thai Populations**
*Jade S. De La Paz, MS**; Stephanie Woodley, PhD; Hallie Buckley, PhD; Siân Halcrow, PhD;
Nawaporn Techataweewan, PhD
- 11:30 a.m. - 1:00 p.m. **A15** **The Utility of the Sacrum for Sex Estimation**
*Alexandra R. Klales, PhD**; Ashley B. Maxwell, PhD
- 11:30 a.m. - 1:00 p.m. **A16** **A Pilot Study of Geomorphometric Sex Estimation on the Pelvis**
*Emily Brooks, BA**; Theresa M. De Cree, BA*; Luis L. Cabo, MS; Nora Butterfield
- 11:30 a.m. - 1:00 p.m. **A17** **Establishing Postcranial Sex Estimation Criteria for Unidentified Migrants at the United States-Mexico Border**
*Stephanie Medrano, MA**; Molly A. Kaplan, MA*; Kate Spradley, PhD;
Gillian M. Fowler, MSc; Cris E. Hughes, PhD
- 11:30 a.m. - 1:00 p.m. **A18** **An Evaluation of Patellar Measurements for Estimating Sex in African Americans**
*Eric Fraunhofer**
- 11:30 a.m. - 1:00 p.m. **A19** **The Iliac Crest as a Skeletal Indicator of Puberty and Guide to Subadult Sex Estimation**
*Stephanie J. Cole, MS**; Kyra E. Stull, PhD; Marin A. Pilloud, PhD
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 a.m. - 1:00 p.m. **A20** **Age Estimation in a South African Sample of 224 Living Subjects Using the Cameriere (Bo/Ca) and Tanner–Whitehouse 2 (TW2) Methods**
*Francesco De Micco, MBBS**; Nikolaos Angelakopoulos; Federica Martino, MD;
Graziamaria Corbi, PhD; Roberto Cameriere; Carlo P. Campobasso, MD, PhD
- 11:30 a.m. - 1:00 p.m. **A21** **A Computed Tomographic Evaluation of the Vertebrochondral Joint for Age Estimation**
*Rutwik D. Shedje, MSc**; Tanuj Kanchan, MD; Shilpi Gupta Dixit, MD; Pawan K. Garg, MD;
Varsha Warriar
- 11:30 a.m. - 1:00 p.m. **A22** **Age Estimation Using a Radiation-Free Medical Method: An Analysis of Carpal Bones by Magnetic Resonance Imaging (MRI)**
*Roberto Scendoni**; Mariano Cingolani, MD; Francesco De Micco, MBBS*; Roberto Cameriere
- 11:30 a.m. - 1:00 p.m. **A23** **A Computed Tomographic Analysis of Medial Clavicular Epiphyseal Fusion for Age Estimation in an Indian Population**
*Rutwik D. Shedje, MSc**; Tanuj Kanchan, MD; Pawan K. Garg, MD; Shilpi Gupta Dixit, MD;
Varsha Warriar; Pushpinder Khera, MD; Kewal Krishan, PhD
- 11:30 a.m. - 1:00 p.m. **A24** **Estimating Age From 2D and 3D Imaging of Skeletal Remains: An Assessment of Reliability Using the Medial Clavicle**
*Sarah H. Ghannam, MA**; Brittany S. Walter, PhD*; William R. Belcher, PhD
- 11:30 a.m. - 1:00 p.m. **A25** **The McKern-Stewart Method as a Technique for Analyzing Age-Related Pubic Symphyseal Changes: A Systematic Review and Meta-Analysis**
*Varsha Warriar**; Rutwik D. Shedje, MSc; Tanuj Kanchan, MD; Kewal Krishan, PhD



ANTHROPOLOGY

- 11:30 a.m. - 1:00 p.m. **A26** **Skeletal Age Estimation From Pubic Symphysis: A Systematic Review of the Suchey-Brooks Method**
*Tanuj Kanchan, MD**; *Surjit Singh, MD*; *Varsha Warriar*; *Rutwik D. Shedge, MSc*
- 11:30 a.m. - 1:00 p.m. **A27** **The Age-Informative Value of the Pubic Symphysis Compared to Other Skeletal Traits in a Chilean Sample Using Transition Analysis**
*Jacqueline Galimany, MA**; *Sara M. Getz, PhD*
- 11:30 a.m. - 1:00 p.m. **A28** **Testing the Traits of TA3: Setting a Baseline for Method Development and Performance**
*Sara M. Getz, PhD**; *Patrick D. Byrnes, PhD*
- 11:30 a.m. - 1:00 p.m. **A29** **Aging From Cranial Suture Closure**
*Sittiporn Ruengdit, PhD**; *D. Troy Case, PhD*; *Pasuk Mahakkanukrauh, MD*
- 11:30 a.m. - 1:00 p.m. **A30** **Does Age Matter?! An Age Study on Maxillary Sinus Morphologies in Human Identification**
*Teresa M. Runge, MS**; *Joel D. Irish, PhD*; *Alicia Ventresca Miller, PhD*; *Matteo Borrini, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 a.m. - 1:00 p.m. **A31** **The Use of High-Resolution Computed Tomography (CT) to Explore Age-Related Trabecular Change in Human Ribs**
*Sophia Mavroudas, MA**; *Victoria M. Dominguez, PhD*; *Devora S. Gleiber, MA*
- 11:30 a.m. - 1:00 p.m. **A32** **An Age-at-Death Estimation in a Contemporary Australian Population Using Femoral Histomorphometry**
*Ariane Maggio, MFS**; *Daniel Franklin, PhD*
- 11:30 a.m. - 1:00 p.m. **A33** **Automated Techniques for Cortical Bone Histological Variable Segmentation and Image Enhancement**
*Mary E. Cole, PhD**; *Reed A. Davis, MS*; *Joshua T. Taylor*; *Janna M. Andronowski, PhD*
- 11:30 a.m. - 1:00 p.m. **A34** **The Longitudinal Effects of Prolonged Opioid Use on Cortical Bone Remodeling in a Rabbit Model: Part I—Intraskelatal Variability and Regional Differences Detected Via Micro-Computed Tomography (Micro-CT)**
*Janna M. Andronowski, PhD**; *Mary E. Cole, PhD*; *Reed A. Davis, MS*; *Adam J. Schuller, BS*; *Abigail R. LaMarca*; *Gina R. Tubo*
- 11:30 a.m. - 1:00 p.m. **A35** **Group-Specific Label Use in Anthropology: A Review of the *Journal of Forensic Sciences*, 2010–2019**
*Erin B. Waxenbaum, PhD**
- 11:30 a.m. - 1:00 p.m. **A36** **Population Variation in the Occurrence of Midline and Canine Diastemata**
*Cassie E. Skipper, MA**; *SaMoura L. Horsley**; *Dori E. Kenessey, BA*; *Tatiana Vlemincq-Mendieta, MS*; *G. Richard Scott, PhD*; *Marin A. Pilloud, PhD*
- 11:30 a.m. - 1:00 p.m. **A37** **Fluctuating Asymmetry: A Craniofacial Comparison to Better Understand Central American and Mexican Migration**
*Stephanie Medrano, MA**; *Kate Spradley, PhD*; *Katherine E. Weisensee, PhD*
- 11:30 a.m. - 1:00 p.m. **A38** **Vertebral Neural Canal (VNC) Dimensions in Contemporary Subadult Samples: Indicators of Stress, Population Variation, or Both?**
*Louise K. Corron, PhD**; *Christopher A. Wolfe, MA*; *Kyra E. Stull, PhD*
- 11:30 a.m. - 1:00 p.m. **A39** **Integrating the Biocultural Profile Into the Identification Process at the Louisiana State University Forensic Anthropology and Computer Enhancement Services (LSU FACES) Laboratory**
*Emily F. Michon, MA**; *Sophia I. Reck, MA*; *Ginesse A. Listi, PhD*; *Teresa V. Wilson, PhD*

ANTHROPOLOGY

- 11:30 a.m. - 1:00 p.m. **A40** **Caseloads in Forensic Anthropology**
*Nicholas V. Passalacqua, PhD**; *Marin A. Pilloud, PhD*; *Casey Philbin, PhD*
- 11:30 a.m. - 1:00 p.m. **A41** **The Impact of Forensic Anthropology Manuscripts in the *American Journal of Physical Anthropology***
*Rhian Dunn, MS**; *Nicholas V. Passalacqua, PhD*; *Joseph T. Hefner, PhD*; *Katie Zejdlik, PhD*
- 11:30 a.m. - 1:00 p.m. **A42** **Consistency in Validation: Categorizing Validation Studies in Forensic Anthropology**
*Angela M. Dautartas, PhD**; *Kelly Sauerwein, PhD*
- 11:30 a.m. - 1:00 p.m. **A43** **A Hierarchy of Expert Performance as Applied to Forensic Anthropology**
*Stephanie Hartley, BA**; *Allysha P. Winburn, PhD*
- 11:30 a.m. - 1:00 p.m. **A44** **Reliability and Biasability of Sectioning-Point-Based Sex Estimation**
*Stephanie Hartley, BA**; *Allysha P. Winburn, PhD*; *Itiel Dror, PhD*
- 11:30 a.m. - 1:00 p.m. **A45** **The Effects of Enhanced Quality Control (QC) Measures on Forensic Anthropological Practice**
*Raphaella M. Meloro, MA**; *Allysha P. Winburn, PhD*; *Valerie DeLeon, PhD*
- 11:30 a.m. - 1:00 p.m. **A46** **Improving Radiographic Visualization of the Frontal Sinus for Scientific Identification**
*Erica R. Christensen, MS**; *Laura K. Scheid, MS*; *Jered B. Cornelison, PhD*; *Christine M. Pink, PhD*
- 11:30 a.m. - 1:00 p.m. **A47** **A Pilot Study on Measurement Error on 2D and 3D Images in Forensic Anthropological Applications**
Theresa M. De Cree, BA; *Emily Brooks, BA*; *Victoria Lamond, BA**; *Samantha LaFrance, BA**; *Luis L. Cabo, MS*
- 11:30 a.m. - 1:00 p.m. **A48** **The Utility of Digital Imaging Technologies for the Virtual Curation and Metric Analysis of Skeletal Remains**
*Devin L. Adcox**; *Tiffany B. Saul, PhD*
- 11:30 a.m. - 1:00 p.m. **A49** **3D Web-Based Technologies to Support Interactive Forensic Anthropology Databases**
*Terrie Simmons-Ehrhardt, MA**
- 11:30 a.m. - 1:00 p.m. **A50** **Back Together: An Innovative Procedure For Cranial Reconstruction as an Aid for Human Identification**
*Matteo Borrini, PhD**; *Satu Valoriani, PhD*
- 11:30 a.m. - 1:00 p.m. **A51** **The Application of Standardized Skeletal Inventory Methods to Fragmented Subadult Cranial Remains**
*Andrea Palmiotto, PhD**
- 11:30 a.m. - 1:00 p.m. **A52** **A Metric Approach to Human and Non-Human Species Identification of Skeletal Remains Using Machine Learning**
*Heather M. Garvin, PhD**; *Michael W. Kenyhercz, PhD*; *Rachel Dunn, PhD*; *Sabrina Sholts, PhD*; *M. Schuyler Litten, MA*
- 11:30 a.m. - 1:00 p.m. **A53** **A Comparison of the Accuracy of Identification Between Non-Human and Human Skeletal Elements**
*Kaitlyn Klein, BS**; *Holly A. Long, BS**; *Summer B. Shipley, BS**

ANTHROPOLOGY

- 11:30 a.m. - 1:00 p.m. **A54** **Portable Laser-Induced Breakdown Spectroscopy (LIBS) for the Categorization of Human Skeletal Remains**
*Kelsi Kuehn, MA**; *Matthieu Baudalet, PhD*; *Jonathan D. Bethard, PhD*
- 11:30 a.m. - 1:00 p.m. **A55** **Choose Your Own (Accreditation) Adventure in the Defense POW/MIA Accounting Agency's (DPAA's) Isotope Testing Program: Part I—Sample Preparation**
*Amelia J. Edwards, MS**; *Lesley A. Chesson, MS*; *Thuan H. Chau, MS*; *Vincent J. Sava, MA*; *Gregory E. Berg, PhD*
- 11:30 a.m. - 1:00 p.m. **A56** **Choose Your Own (Accreditation) Adventure in the Defense POW/MIA Accounting Agency (DPAA) Isotope Testing Program: Part II—Sample Analysis**
*Lesley A. Chesson, MS**; *Thuan H. Chau, MS*; *Amelia J. Edwards, MS*; *Hannah Dibner, MS*; *Gregory E. Berg, PhD*
- 11:30 a.m. - 1:00 p.m. **A57** **Validating Isoscaping Methods: A Study of Oxygen, Strontium, and Sulfur**
*Tamara Tyner, MA**; *Daniel J. Wescott, PhD*; *Nicholas P. Herrmann, PhD*; *Tiffany B. Saul, PhD*
- 11:30 a.m. - 1:00 p.m. **A58** **Mass Grave Localization Prediction With Geographical Information Systems in Guatemala and Future Impacts**
*Perla Santillan, MS**; *Scott Edwards, PhD*; *Jenise Swall, PhD*; *Tal Simmons, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 a.m. - 1:00 p.m. **A59** **The Importance of Hand-Drawn Maps in Forensic Archaeological Recoveries**
*Anthony V. Lanfranchi, BS**; *Kristine A. Kortonick, BS**; *Victoria Lamond, BA**
- 11:30 a.m. - 1:00 p.m. **A60** **Shining a Light on Forensic Anthropology: The Use of Alternative Light Sources (ALS) to Detect Skeletal Remains Underwater**
*Catherine Maidment**; *Anna Williams, PhD*
- 11:30 a.m. - 1:00 p.m. **A61** **Variation in Bone Shrinkage Due to Thermal Exposure: A Patellar Case Study**
*Ashley B. Maxwell, PhD**; *Alexandra R. Klaes, PhD*; *Brailey Moeder*
- 11:30 a.m. - 1:00 p.m. **A62** **The Implications of Thermal Alteration on Osteometry**
*Maritza Liebenberg, BSc**; *Leandi Liebenberg, MS*; *Gabriele C. Kruger, MSc*; *Ericka N. L'Abbe, PhD*
- 11:30 a.m. - 1:00 p.m. **A63** **Burned Bodies: Positional Change in Decomposed and Fresh Human Remains**
*Petra Banks, MA**; *Mariah E. Moe, MA*; *Courtney C. Siegert, MA*; *Sophia Mavroudas, MA*; *Steve Seddig, BS*; *Nicholas P. Herrmann, PhD*; *Timothy P. Gocha, PhD*; *Daniel J. Wescott, PhD*
- 11:30 a.m. - 1:00 p.m. **A64** **Mattress Fires and Their Effect on the Destruction and Distribution of Remains in a House Fire Setting**
*Nicole H.W. Schwalbach, MA**
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 a.m. - 1:00 p.m. **A65** **Pack Rats: An Unconsidered Taphonomic Variable**
*Carlos J. Zambrano, PhD**; *Kent J. Buehler, MA*; *Angela Berg, RN*
- 11:30 a.m. - 1:00 p.m. **A66** **Phase II Spatial Patterning of Vulture-Scavenged Human Remains**
*Molly Miranker, MA**; *Alberto Giordano, PhD*; *Kate Spradley, PhD*
- 11:30 a.m. - 1:00 p.m. **A67** **Vulture and Black-Backed Jackal Scavenging: Forensic Implications for the Recovery of Scattered Remains in South Africa**
*Craig A. Keyes, MS**; *Jolandie Myburgh, PhD*; *Desiré Brits, PhD*

ANTHROPOLOGY

- 11:30 a.m. - 1:00 p.m. **A68** **Taphonomic Alterations of Skeletal Remains Within a Subtropic Region: A Key West Cemetery**
Fatima Soto, BS; Heather A. Walsh-Haney, PhD*
- 11:30 a.m. - 1:00 p.m. **A69** **Taphonomic Effects of Acidic Soil on Human Remains in Japan: A Preliminary Study**
*Brian D. Padgett, PhD**
- 11:30 a.m. - 1:00 p.m. **A70** **The Application and Implication of Radiocarbon Dating in Forensic Case Work: When Medicolegal Significance Meets Archaeological Relevance**
Benoit Bertrand, PhD; Philippe Morbidelli, MD; Anne A. Becart, DDS, PhD; Pascale Richardin, PhD; Didier Gosset, MD, PhD; Vadim Mesli, MD; Valéry C. Hédouin, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **A71** **Investigating the Extent of Bone Diagenesis in Short Timescales Through a Histological Approach**
Caley A. Mein; Anna Williams, PhD*
- 11:30 a.m. - 1:00 p.m. **A72** **The Growth of Bryozoan Colonies on Immersed Human Bones: How Can It Help to Estimate the Minimum Postmortem Interval?**
Vadim Mesli, MD; Benoit Bertrand, PhD; Quentin Scanvion, MD; Didier Gosset, MD, PhD; Valéry C. Hédouin, MD, PhD*
- 11:30 a.m. - 1:00 p.m. **A73** **An Analysis of Clothed Pig Proxies (*Sus Scrofa*) When Cold Temperatures Are Present in Central Illinois**
*Katharine C. Woollen, MS**
- 11:30 a.m. - 1:00 p.m. **A74** **Decomposition in the Sonoran Desert During the Summer**
Kaitlyn J. Fulp, BA; Meghan M. Gast; Jacob A. Harris, PhD; Katelyn L. Bolhofner, PhD*

Thursday—Session I

Biological Profile and Identification

*Moderator: Brittany S. Walter, PhD
Defense POW/MIA Accounting Agency Lab
Offutt Air Force Base, NE*

*Co-Moderator: Angela M. Dautartas, PhD
Troy University
Troy, AL*

- 9:00 a.m. - 9:15 a.m. **A75** **Forensic Anthropology Casework Performance: Assessing Accuracy and Trends for Biological Profile Estimates on a Comprehensive Sample of Identified Decedent Cases**
Cris E. Hughes, PhD; Chelsey A. Juarez, PhD; An-Di Yim, MA*
- 9:15 a.m. - 9:30 a.m. **A76** **Variation in Pubic Body Shape in Hispanic and Euroamerican Populations and the Implications for Assessing Biological Sex From Skeletal Remains**
Erica Cantor, MS; Krista E. Latham, PhD; Stephen P. Nawrocki, PhD*
- 9:30 a.m. - 9:45 a.m. **A77** **Reference Sample Optimization for Juvenile Age Estimation From Diaphyseal Lengths**
Valerie Sgheiza, MA; An-Di Yim, MA**
- 9:45 a.m. - 10:00 a.m. **A78** **Skeletal Age Estimation in the Living: Conventional Radiography (CR) Versus Magnetic Resonance Imaging (MRI) and Staging Technique Versus Atlas Method**
Heleen Coreelman, MSc; Elke Hillewig, MSc; B. de Haas, BSc; Patrick W. Thevissen, PhD; Jannick De Tobel, PhD*

ANTHROPOLOGY

- 10:00 a.m. - 10:15 a.m. **A79** **The Effects of Measurement Properties and Underlying Human Variation on FORDISC® Classification and Tolerance for Craniometric Error**
*Michala K. Stock, PhD**; *Katie M. Rubin, PhD*; *Kyle A. McCormick, PhD*
- 10:15 a.m. - 10:30 a.m. **A80** **Tracing Latinx Population History Through Odontometrics**
*Rebecca L. George, PhD**; *Marin A. Pilloud, PhD*
- 10:30 a.m. - 10:45 a.m. **A81** **Trotter and Gleser's (1958) Equations Outperform Trotter and Gleser's (1952) Equations in Estimating Living Statures of White Males**
*Yangseung Jeong, PhD**; *Eun Jin Woo*; *Simon Eduard Pergande*
- 10:45 a.m. - 11:00 a.m. **A82** **Metric Identification Support Tool (MIST): A Statistically Based Instrument for Use in Medical Examiner/Coroner Offices to Support Personal Identification Results**
*Sharon M. Derrick, PhD**; *Jason M. Wiersema, PhD*; *Deborah C. Pinto, PhD*; *Blair Boatwright, PhD*
- 11:00 a.m. - 11:15 a.m. **A83** **An Introduction to a Skeletal Series for Forensic Anthropology Research and Training**
*Christine M. Pink, PhD**; *Erica R. Christensen, MS*; *Laura K. Scheid, MS*; *Jered B. Cornelison, PhD*
- 11:15 a.m. - 11:30 a.m. **A84** **Bodies Without Names, Names Without Bodies: Searching for Lost Lives in Lisbon, Portugal**
Ana Rita Inácio, MD; *Sandra R. Sousa, MS*; *Zoi R. Argyropoulou, MD*; *Silvia R. Andrade, MD*; *Catarina R. Gomes, MD*; *Mário Sardinha, MD*; *Carlos dos Santos, MD*; *Eugenia Cunha, PhD**
- 11:30 a.m. - 11:45 a.m. **A85** **Management of the Dead After Disasters From Aquatic Environments in the Asia and Pacific Region**
*Sherry C. Fox, PhD**; *Nitin K. Agrawal, MDS*; *Eva Bruenisholz, MS*; *Laurel Clegg, MSc*; *Melahat Elif Gunce Eskikoy, DDS, PhD*; *Sharmila Gurung, MSc*; *Jennifer L. Hughes, PhD*; *Lay See Khoo, PhD*; *Udo Krenzer, MA*; *Alex Starkie, PhD*
- 11:45 a.m. - 12:00 p.m. **A86** **Stakeholder Forums: Applying a Social Science Strategy for Recognizing Policy Consensus Among Divergent Stakeholders on Transnational DNA Data Sharing in Missing Persons Identifications**
*Sara H. Katsanis, MS**; *Diana J. Madden, MA*; *Courtney C. Siegert, MA*; *Jennifer K. Wagner, JD, PhD*; *Kate Spradley, PhD*

Thursday—Session II

Trauma and Taphonomy

Moderator: Kelly Sauerwein, PhD
National Institute of Standards and Technology
Gaithersburg, MD

Co-Moderator: Janet E. Finlayson, PhD
SNA International supporting the DPAA
Alexandria, VA

- 1:00 p.m. - 1:15 p.m. **A87** **Rib Fracture Analysis of Infant Cardiopulmonary Resuscitation (CPR) Methods Using Porcine Surrogates**
*Laney R. Feeser, MA**
- 1:15 p.m. - 1:30 p.m. **A88** **Experimentally Induced Rib Fractures Using Euthanized Burmese Pythons (*Python Bivittatus* Kuhl): A Comparison of Compression Impacts to Inform Pediatric Rib Fractures in Humans**
*Amy Pham, BA**; *Shannon L. Dery, BS*; *Heather A. Walsh-Haney, PhD*; *Jiehong Liao*; *Ian Bartoszek*

ANTHROPOLOGY

- 1:30 p.m. - 1:45 p.m. **A89** **Differentiating the Skeletal Trauma Resulting From Pediatric Simple Short Falls Compared With Physical Abuse: A Retrospective International Multicenter Pilot Study**
*Samantha K. Rowbotham, PhD**; *Ryan Blumenthal, PhD*; *Tania Delabarde, PhD*; *Laurence Legrand, MD*; *Elizabeth van der Walt, FCRad*; *Tom Sutherland, FRANZCR*; *Zarina Lockhat, FFRAD*; *Owen J. Arthurs, PhD*
- 1:45 p.m. - 2:00 p.m. **A90** **Differences in Fracture Healing Between Unintentional and Abuse-Related Fractures in Young Children**
*Diana Lynn Messer, PhD**; *Jessica L. Campbell, PhD*; *Brent H. Adler, MD*; *Lynne Ruess, MD*; *Farah W. Brink, MD*; *Henry L. Xiang, MD, PhD*
- 2:00 p.m. - 2:15 p.m. **A91** **The Effects of Input Energy and Impact Surface on Cranial Fracture Patterns**
*Mariyam I. Isa, PhD**; *Todd W. Fenton, PhD*; *Alexis C. Goots, MA*; *Elena O. Watson, MS*; *Feng Wei, PhD*
- 2:15 p.m. - 2:30 p.m. **A92** **The Issues and Complexities of Establishing Methodologies to Differentiate Between Vertical and Horizontal Impact Mechanisms in the Analysis of Skeletal Trauma**
*Nick Dempsey, BA**; *Richard Bassed, BDS*; *Soren Blau, PhD*
- 2:30 p.m. - 2:45 p.m. **A93** **An Assessment of the Ability of Forensic Anthropologists to Detect Skeletal Trauma Using Radiological Methods**
*Amy Joy Spies, MSc**; *Maryna Steyn, PhD*; *Daniel N. Prince, MBBCh*; *Desiré Brits, PhD*
- 2:45 p.m. - 3:00 p.m. **A94** **Bone Diagenesis in the Marine Environment: Trace Element Distribution in Mammalian Bones Recovered From Shipwrecks**
*Edda Guareschi, MD, MSc**; *Noreen J. Evans, PhD*; *Kai Rankenburg, PhD*; *Bradley J. McDonald*; *Shanan S. Tobe, PhD*; *Philip K. Nicholls, PhD*; *Paola A. Magni, PhD*
- 3:00 p.m. - 3:15 p.m. **A95** **Widespread and Common Blow Fly Species in the Northeastern United States: How Useful Are They in the Forensic Inference About the Movement of a Corpse**
*Julie Pinto, MS**; *R. Christopher O'Brien, PhD*; *Paola A. Magni, PhD*; *Ian Dadour, PhD*
- 3:15 p.m. - 3:30 p.m. **A96** **Using Metabolomics to Gain a Deeper Understanding of Human Decomposition**
*Amanda May, PhD**; *Katharina M. Höland, MSc*; *Hayden McKee, MSc*; *Allison R. Mason, BS*; *Sarah Schwing, BA, BSc*; *Charity G. Owings, PhD*; *Thomas Delgado, BA*; *Mary C. Davis, MSc*; *Russell L. Zaretski, PhD*; *Jennifer M. DeBruyn, PhD*; *Dawnie W. Steadman, PhD*; *Shawn R. Campagna, PhD**
- 3:30 p.m. - 3:45 p.m. **A97** **A New Quantitative Method for Analyzing Burned Human Remains**
*Amanda N. Williams, PhD**
- 3:45 p.m. - 4:00 p.m. **A98** **A Refined Classification System for Thermally Damaged Human Remains by Body Segment**
*Elayne J. Pope, PhD**; *Chelsey A. Juarez, PhD*; *Alison Galloway, PhD*



ANTHROPOLOGY

Friday—Session I

Structural Vulnerability and Critical Race Theory

Moderator: *Erin B. Waxenbaum, PhD*
Evanston, IL

Co-Moderator: *Rebecca L. George, PhD*
University of Nevada, Reno
Reno, NV

- 9:00 a.m. - 9:15 a.m. **A99** **Reporting Biases Between Missing Persons and Unidentified Persons in the United States**
*Micayla C. Spiros, MS**; *Kelly R. Kamnikar, MA*
- 9:15 a.m. - 9:30 a.m. **A100** **America Since Wounded Knee: Contextual Vulnerabilities in the Ongoing Missing and Murdered Indigenous Women (MMIW) Crisis**
*A. Skylar Joseph, MS**
(FSF Emerging Forensic Scientist Award Oral Presentation)
- 9:30 a.m. - 9:45 a.m. **A101** **Structural Vulnerability in Transgender and Non-Binary Decedent Populations: Analytical Considerations and Harm-Reduction Strategies**
*Amy Michael, PhD**; *Mariyam I. Isa, PhD*; *Lee Redgrave*; *Anthony Redgrave, MS*
- 9:45 a.m. - 10:00 a.m. **A102** **Forensic Anthropology is WEIRD: Knowledge Production by Whom for Whom**
*Nandar Yuki, MA**; *Elaine Y. Chu, MA*; *Matthew C. Go, PhD*
- 10:00 a.m. - 10:15 a.m. **A103** **Terminology Used to Describe Human Variation in Forensic Anthropology**
*Marin A. Pilloud, PhD**; *Cassie E. Skipper, MA*; *SaMoura L. Horsley*; *Alba E. Craig, BA*; *Krista E. Latham, PhD*; *Katie Zejdlik, PhD*; *Chaunesey Clemmons, BA*; *Deborah Boehm, PhD*; *Casey Philbin, PhD*
- 10:15 a.m. - 10:30 a.m. **A104** **Assumed Differences and Unquestioned Typologies: The Oversimplification of Race and Ancestry in Forensic Anthropology**
*Nicolette Parr, PhD**; *Allysha P. Winburn, PhD*; *Sean D. Tallman, PhD*

Symposium: The Ethics of Forensic Anthropological Practice

Moderator: *Marin A. Pilloud, PhD*
University of Nevada, Reno
Reno, NV

Co-Moderator: *Nicholas V. Passalacqua, PhD*
Western Carolina University
Cullowhee, NC

- 10:30 a.m. - 10:45 a.m. **A105** **Forensic Science and the Living: The Ethics of “Determining” Age From Minor Children**
*Elizabeth A. DiGangi, PhD**; *Ariel M. Gruenthal-Rankin, MSc*; *Tessa Somogyi, MA*
- 10:45 a.m. - 11:00 a.m. **A106** **WITHDRAWN**
- 11:00 a.m. - 11:15 a.m. **A107** **Bakeng Se Afrika and the Ethics of Digital Repositories of Human Remains**
*Ericka N. L’Abbe, PhD**; *Amanda Alblas, PhD*; *Kerri Keet, MSc*; *Yann Heuzé, PhD*; *Sandeepha Rajbaran Singh, MSc*; *Clarisa van der Merwe, MSc*
- 11:15 a.m. - 11:30 a.m. **A108** **The Ethics of Combatants as Investigators in the Search for People Missing Due to Armed Conflict**
*Derek Congram, PhD**; *Maria L. Urbano*; *Tilzia Quintero*; *Jhon L. Gonzalez, BA*; *Jaime Parra*
- 11:30 a.m. - 12:00 p.m. **Discussion**
Marin Pilloud, PhD; *Nicholas Passalacqua, PhD*

ANTHROPOLOGY

Friday—Session II

Diversity and Inclusion Symposium—Doing More Harm than Good: Forensic Anthropology Has a Race Problem

Moderator: *Alba E. Craig, BA*
Indianapolis, IN

Co-Moderator: *Tanya Ramos, BA*
Indianapolis, IN

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| 1:00 p.m. - 1:15 p.m. | A109 | Proxies for Race: The Disconnect of Forensic Anthropology From Anthropology
<i>Helen Cho, PhD*</i> |
| 1:15 p.m. - 1:30 p.m. | A110 | Out With the “-Oids”: Problems With the Use of Racist Terminology in Forensic Science
<i>Elizabeth A. DiGangi, PhD*; Alba E. Craig, BA; Daniela Santamaria Vargas, BA</i> |
| 1:30 p.m. - 1:45 p.m. | A111 | Increasing Disparities: Sociopolitical Implications for the Use of Ancestry Estimation in the Medicolegal System
<i>Jesse Roberto Goliath, PhD*; Meghan-Tomasita J. Cosgriff-Hernandez, PhD*</i> |
| 1:45 p.m. - 2:00 p.m. | A112 | Don’t Let Your World Be Too Small: The Relevance of Identity and Skeletal Populations
<i>Phoebe R. Stubblefield, PhD*</i> |
| 2:00 p.m. - 2:15 p.m. | A113 | Confronting Admixture: An Analysis of a Problematic Tradition in Forensic Anthropology
<i>Teresa V. Wilson, PhD*; Sara Mire, BA; Bridget A. Cone</i> |
| 2:15 p.m. - 2:30 p.m. | A114 | Adulteration of Ancestry: A Time for Reform
<i>Ann H. Ross, PhD*; Marin A. Pilloud, PhD*</i> |
| 2:30 p.m. - 2:45 p.m. | A115 | The Accuracy of Forensic Anthropological Ancestry Estimation in Modern Casework: The Evaluation of Forensic Anthropology Reports From Three Medical Examiners’ Offices in the United States
<i>Hillary R. Parsons, PhD*</i> |
| 2:45 p.m. - 3:00 p.m. | A116 | Race/Craft in Forensic Anthropology
<i>Rachel Watkins, PhD*</i> |
| 3:00 p.m. - 4:00 p.m. | | Discussion
<i>Agustín Fuentes, PhD</i> |