### Poster Session

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<th>Time</th>
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<tr>
<td>11:30 a.m.</td>
<td>Pedagogical Access and Ethical Considerations in Forensic Anthropology and Bioarchaeology</td>
<td>Micayla Spiros, MSc*; Amber Piemons, MA; Jack Biggs, BA</td>
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<td>A Virtual Anthropological Approach to Assessing the Similarity of Joint Surfaces With Applications for Sorting Commingled Human Remains</td>
<td>Helen Brandt–Litavec, MS*</td>
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<td>The Segregation of Individuals From Large Commingled Assemblages Via Stable Isotope Ratio Analysis of Bone Collagen</td>
<td>Mary Megyesi, PhD*; Gregory Berg, PhD; Lesley Chesson, MS</td>
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<td>Forensic Anthropology Casework at the Cook County, Illinois, Medical Examiner’s Office, 2012–2020</td>
<td>Erin Waxenbaum, PhD*; Anne Grauer, PhD</td>
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<td>Myriad Maps and Applied Anthropology: Needs and Limitations</td>
<td>Molly Miranker, MA</td>
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<td>Documenting Outdoor Simulated Scenes With Photogrammetry: Methods for Improving Dappled Lighting Conditions</td>
<td>Caroline Jasiak, MA*; John Schultz, PhD; Morgan Ferrell, MA</td>
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<td>Tracing Academic Relatedness Via the Forensic Anthropology Phylogeny (FAP)</td>
<td>Katharine Kolpan, PhD*</td>
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<td>Exploring Forensic Research Interests of a United States–Based Anthropology Faculty</td>
<td>Rhian Dunn, MS*; Christopher Rainwater, MS; Nicholas Passalacqua, PhD</td>
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<td>Advances in Sorting Commingled Human Remains: A Preliminary Study Using the Subtalar Joint</td>
<td>Ioanna Anastopoulou, PhD; Nikoletta Manta, MSc; Konstantinos Katsos, MD, PhD; Emmanouil Sakelladis, MD, MSc, PhD; Konstantinos Moraitis, MSc, PhD*</td>
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<td>Calculating the Minimum Number of Individuals (MNI) and Most Likely Number of Individuals (MLNI) for a Commingled Fetal and Infant Remains Sample</td>
<td>Ariana V. Agyemang, BS*; Helen Brandt–Litavec, MS; Elizabeth A. DiGangi, PhD</td>
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<td>We Take Care of Our Own: Utilizing the LGBT+ Accountability for Missing and Murdered Persons (LAMMP) Database</td>
<td>Anthony Redgrave, MS*; Amy Michael, PhD; Jessica Veltstra, MS; Samantha Blatt, PhD; Mariyam Isa, PhD</td>
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<td>Applying a Biocultural Signature of Embodied Stress to Identify Latin American Migrants From a Cold Case Sample in South Florida</td>
<td>Enrique Plasencia, BA*; Allysha Winburn, PhD</td>
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<td>OsteoID: A Freely Available Tool for Skeletal Species Identification</td>
<td>Heather Garvin, PhD*; Rachel Dunn, PhD; Sabrina Shoits, PhD; M. Schuyler Litten, MA; Merna Mohamed, MSC; Nathan Kuttickat, BSc; Noah Skantz, BS, BA</td>
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<td>Assessing Opioid Exposure and Opioid Overdose Deaths in Skeletal Casework Through Collaboration With Organ Procurement Organizations</td>
<td>Janna Andronowski, PhD; Randi Depp, MS*</td>
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<td>A15</td>
<td>Evaluating the Effect of Cocaine Use on Dorsum Sellae (DS) Demineralization</td>
<td>Tanin Zadeh, MS*; Ellen Fricano, PhD; Vicki Wedel, PhD</td>
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<td>A16</td>
<td>The Effects of Prolonged Opioid Exposure on Bone Fracture Strength of Rabbit Middle Ribs</td>
<td>Reed Davis, MSc*; Mary Cole, PhD; Henry Astley, PhD; Janna Andronowski, PhD</td>
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<td>A17</td>
<td>Understanding Skeletal and Body Donation in Forensic Anthropology: Developments and Procedures</td>
<td>Kerianne Armelli, MS*; Rhian Dunn, MS; Carolyn Isaac, PhD</td>
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<td>A18</td>
<td>Modeling Grave Depressions Using Open–Source Light Detection And Ranging (LiDAR) Data at the Forensic Anthropology Research Facility</td>
<td>Mariah Moe, MA*; Shelby Garza, MA; Nicholas Herrmann, PhD</td>
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<td>A19</td>
<td>Discovering Clandestine Human Remains Using Unmanned Aerial System Based Remote Sensing</td>
<td>Daniel Wescott, PhD*; Gene Robinson; Derek Anderson, PhD; Shane Seitz</td>
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<td>A20</td>
<td>A Robust Methodology for Stable Isotope Analysis of Human Tooth Enamel</td>
<td>Francesca Spencer, BS, BA*; Kirsten Verostick, PhD; Alejandro Serna, PhD; Lesley Chesson, MS; Gregory Berg, PhD; Gabriel Bowen, PhD</td>
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<td>A21</td>
<td>Repatriation and Responsibility: Consideration Beyond Traditional Constructs</td>
<td>Rose Leach, MA*; Kerianne Armelli, MS</td>
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<td>A22</td>
<td>A Morphometric Comparison of Eight Small Non–Human Species of Long Bones to Juvenile Human Long Bones for the Purpose of Identification in a Forensic Context</td>
<td>Kaitlyn Schoonover, BS*; Luis Cabo, MS</td>
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<td>A23</td>
<td>A Spatiotemporal Analysis of the National Missing and Unidentified Persons System (NamUs) Unidentified Person Cases Along the United States–Mexico Border</td>
<td>Justin Z. Goldstein, MA*; Courtney Siegert, MA; Nicholas Herrmann, PhD</td>
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<td>A24</td>
<td>Developing a Tissue–Specific Multi–Isoscape (δ¹⁸O and δ⁸⁷Sr/δ⁶⁶Sr) to Estimate Region of Origin</td>
<td>Julianne Sarancha, MS*; Alexis Baide, MA; Clare Dittemore, BA; Thomas Delgado, BA; Gabriel Bowen, PhD</td>
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<td>A25</td>
<td>Last Seen Location: Using Missing Persons Data for Identification in Forensic Anthropology</td>
<td>Liam Johnson, MA*; Teresa Wilson, PhD</td>
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<td>A26</td>
<td>Understanding the Spatial Relationships Between the National Missing and Unidentified Persons System (NamUs) Unidentified and Missing Persons Cases in Texas</td>
<td>Shelby L. Garza, MA*; Justin Z. Goldstein, MA</td>
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<td>A27</td>
<td>An Initial Review of the Long–Term Unidentified Cases Managed by the Forensic Anthropology Center at Texas State University (FACTS)</td>
<td>Emilie L. Wiedenmeyer, MA*, Justin Z. Goldstein, MA; Petra Banks, MA; Mariah Moe, MA; Sophia Mavroudas, MA; Michelle D. Hamilton, PhD</td>
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<td>A28</td>
<td>Stature Estimation From Facial Parameters—a Computed Tomography (CT) Scan–Based Observational Study in a South Indian Adult Population</td>
<td>Siddhartha Das, MD*</td>
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<td>A29</td>
<td>OsteoFlo: A FIJI/ImageJ Toolkit for Semi–Automated Identification and Characterization of Fluorescently Labeled Secondary Osteons</td>
<td>Mary Cole, PhD*; Joshua Taylor, BSc; Medhat Hassan; Janna Andronowski, PhD</td>
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<td>A30</td>
<td>A Multi–Isotopic Analysis of Ajnala Skeletal Remains for Provenance of Their Local or Non–Local Origin, Geographic Affinity, and Mobility Patterns</td>
<td>Jagmahender Singh Sehrawat, PhD*</td>
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# Thursday—Session I

The AAFS Anthropology Section 50th Anniversary Symposium: Celebrating Awareness, Change, and Progress in Forensic Anthropology

**Moderator:** Sara M. Getz, PhD  
University of Wisconsin—Platteville  
Platteville, WI

**Co–Moderator:** Katharine E. Kolpan, PhD  
University of Idaho  
Moscow, ID

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| 8:30 a.m. −  8:45 a.m. | A31     | The Impact of British Biometry and Race Studies on the Origins of Forensic Anthropology in the United States  
* Nicholas Passalacqua, PhD; Iris Clever, PhD |
| 8:45 a.m. −  9:00 a.m. | A32     | 50 Years in the American Academy of Forensic Sciences (AAFS)  
* John Williams, PhD; Katherine Kolpan, PhD |
| 9:00 a.m. −  9:15 a.m. | A33     | Pioneers of Color: Diversifying the Pantheon of Forensic Anthropology Luminaries  
Matthew C. Go, PhD; Elaine Y. Chu, MA; Nandar Yukyi, MA; An–Di Yim, PhD; Isis Dwyer, MA; Alba E. Craig, BA; Jesse R. Goliath, PhD; Chaunsey M.J. Clemmons, MA; Tanya Ramos, BA; Allison Nesbitt, PhD; Evonne Turner–Byfield, MSc; Kamar Afra, MA; Jessica K. Juarez, PhD; Sydney S. Garcia, MA; Aaron J. Young, MA; Isabel S. Melhado, BS; Fatimah Bouderdaben, BS; Tisa N. Loewen, MA; Ivanna Robledo MA |
| 9:15 a.m. −  9:30 a.m. | A34     | Contributions of Master’s Degree Programs to Forensic Anthropology Education, Training, and Professionalization  
Ashley Kendell, PhD; Krista Latham, PhD; Sara M. Getz, PhD; Eric Bartelink, PhD; Shannon Clinkinbeard, MA; Dennis C. Dirkmaat, PhD; Colleen Milligan, PhD; Stephen P. Nawrocki, PhD |
| 9:30 a.m. −  9:45 a.m. | A35     | Daubert: Lip Service or a Substantive Change in Forensic Anthropology?  
Kate Lesciotto, PhD |
| 9:45 a.m. − 10:00 a.m. | A36     | 50 Years of Taphonomic Research: From Death’s Acre to a Global Footprint  
Sophia Mavroudas, MA; Dawnie Steadman, PhD; Katie Zedjlik, PhD; Daniel Wescott, PhD; Timothy Gocha, PhD; Sheree Hughes, PhD; Gretchen Dabbs, PhD; Melissa Connor, PhD; Jodie Ward, PhD; Erin Kimmerle, PhD; Jane Harris, PhD; Shari Forbes, PhD; Anthony Falsetti, PhD |
| 10:00 a.m. − 10:15 a.m. | A37     | Beatings, Broken Bones, Bullet Holes, and 3D Prints: The Evolution of Bone Trauma From the Morgue to the Virtual World/Space  
Ericka N. L’Abbe PhD; Alison F. Ridel, PhD; Charlotte Theye, MSc; Rudolph G. Venter, MMed; Alieske Hagg, MSc; Pearl Bothma, BSc; Angelique Carmichael, BSc; Clarisa van der Merwe, MSc; Steven A Symes, PhD |
| 10:15 a.m. − 10:30 a.m. | A38     | Situating Activism in Forensic Anthropology: Historical Understandings of Advocacy in the Discipline  
Raphaela Meloro, MA; Isis Dwyer, MA; Thomas Delgado, BA |
| 10:30 a.m. − 10:45 a.m. |         | BREAK                                                                                     |
### Best Practices, Standards and Professional Practice

**Moderator:**
Rebecca Taylor, PhD  
Defense POW/MIA Accounting Agency  
Joint Base Pearl Harbor-Hickam, HI

**Co–Moderator:**
Jared B. Cornelison  
Western Michigan University  
Homer Stryker MD School of Medicine  
Kalamazoo, MI

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| 10:45 a.m. – 11:00 a.m. | **A39** Standards Development Activities in Forensic Anthropology  
Gregory E. Berg, PhD* |
| 11:00 a.m. – 11:15 a.m. | **A40** Fatal Environments: Survey Results and Best Practices for Human Donor Programs and Body Farms Around the World  
Kelsee Hentschel–Fey, MA*, Gennifer Goad, MA, Erin Kimmerle, PhD |
| 11:15 a.m. – 11:30 a.m. | **A41** F–Track: A Model for Forensic Professionalization  
Joanne Devlin, PhD*; Giovanna Vidoli, PhD; Lee Jantz, PhD; Mary Davis, MSc; Dawnie Steadman, PhD |
| 11:30 a.m. – 11:45 a.m. | **A42** The Readability of Forensic Anthropological Abstracts  
Donovan Adams, PhD; Claire Ralston, MS*; Kelly McGehee, BA |
| 11:45 a.m. – 1:00 p.m. | **BREAK** |

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| 11:30 a.m. – 1:00 p.m. | **A43** Estimating the Postmortem Interval (PMI) in High Desert Climates  
Mackenzie Sullivan, BA*; Marin Pilloud, PhD; Mary Megyesi, PhD, Laura Knight, MD |
| 11:30 a.m. – 1:00 p.m. | **A44** Toward a Better Understanding of the Effects of Leaching and Diagenesis on $^{87}$Sr/$^{86}$Sr of Human Hair Keratin  
Saskia T.M. Ammer, PhD*; Lisette Kootker, PhD; Gareth Davies, PhD |
| 11:30 a.m. – 1:00 p.m. | **A45** Diagenesis of Human Bone, Dental Elements, and Scalp Hair in Taphonomic Experiments: Implications for Isotope Analysis for Human Identification  
Lisette M. Kootker, PhD; Saskia T.M. Ammer, MSc*; Daniel J. Wescott, PhD; Gareth R. Davies, PhD; Hayley Louise Mickleburgh, PhD |
| 11:30 a.m. – 1:00 p.m. | **A46** The Reliability of Bone Features Commonly Used to Predict Saw Class Characteristics  
Alexandra Klales, PhD*; Ashley Maxwell, PhD; Heather Garvin, PhD; Erin Chapman, PhD; Lauren Butaric, PhD |
| 11:30 a.m. – 1:00 p.m. | **A47** A Retrospective Analysis of Scavenging in Southern Nevada Forensic Anthropology Cases (2000–2021)  
Katharine Woollen, MS*; Jennifer Byrnes, PhD |
| 11:30 a.m. – 1:00 p.m. | **A48** Testing Blade Set Width Prediction From Minimum Kerf Width Using Fleshed Human Samples  
Alexis VanBaarle, BA*; Ibrahim Mustaly, MS; Lauren Butaric, PhD; Heather Garvin, PhD |
| 11:30 a.m. – 1:00 p.m. | **A49** The Evaluation of the Transition Analysis 3 (TA3) (Beta Ver. 0.8.0) Age–Estimation Program Using Two International Samples  
Sara M. Getz, PhD*; Jacqueline Galimany, MA |
| 11:30 a.m. – 1:00 p.m. | **A50** A Test of Anthropological Accumulated Degree Day (ADD) Methods of Postmortem Interval Estimation on an Iowan Autopsy Sample  
Natasha Andersen; Emily Archibald*; Taylor Brown; Hannah Spencer–Greathouse, BA; Jonathan Thompson, MD; Heather Garvin, PhD |
A51 Assessing Patterns of Moisture Content in Decomposing, Desiccated, and Mummified Tissue in the Southeastern United States: Trial 1 Data
Christine Bailey, MA; Autumn Lennartz, MA; Maggie Klemm; Cameron Privette; Carter Unger*; Rebecca George, PhD

A52 The Perimortem Trauma Pattern in Human Rights Violations: Comparative Case Studies From Spain, Cambodia, and Argentina
Matteo Borrini, PhD*; Raffaella Minella, MSc; Constantine Eliopoulos, PhD

A53 The Differences in Fracture Healing Based on Fracture Classification in Young Children (Less Than Six Years of Age)
Diana Messer, PhD*; Andrielle Finch

A54 Histological Differentiation of Burnt Cortical Bone in Northeast Ohio Mammals
Evin Hessel, BS*; Mary Cole, PhD; Janna Andronowski, PhD

A55 Testing the Use of Bone Weathering to Estimate the Postmortem Interval (PMI) on Forensically Relevant Bone in an Arid Environment
Joyce Chu*; Alexander Smith, BA; Melissa Connor, PhD

A56 Serrated Versus Non–Serrated Blade Class Interpretation: An Interactive Survey
Miriam Soto Martinez, PhD*; Julie Fleischman, PhD; Jason Wiersema, PhD; Deborrah Pinto, PhD

A57 The Usefulness of Transmission Electron Microscopy (TEM) for the Estimation of the Postmortem Interval (PMI): An Analysis of Ultrastructural Autolitic Changes in the Osteocyte of Human Remains
Chiara Rossetti, MD*; Cesare Garberi; Mario Picozzi; Jutta Maria Birkhoff, MD, PhD; Marcella Reguzzoni

A58 The Effects of Thermal Alteration on Sharp Force Trauma in Human and Non–Human Skeletal Remains
Hailey Collord–Stalder, MA*; Nicholas Herrmann, PhD

A59 Wounded to Death: A Paleo–Forensic Analysis of a Case of Multiple Sharp–Force Lesions From the Medieval Cemetery of San Biagio in Cittiglio in Northern Italy
Chiara Tesi*; Stefano Ricci; Jacopo Crezzini; Roberta Fusco; Chiara Rossetti; Marta Licata

A60 Decomposition in the Desert: Testing the Validity of Using Accumulated Degree Days (ADD) and Total Body Scores (TBS) for Postmortem Interval Estimation in the Sonoran Desert
Kaitlyn Fulp, MA*; Jacob Harris, PhD; Katelyn Bolhofner, PhD

A61 The Evaluation of Postmortem Interval (PMI) Using Collagenous to Non–Collagenous Ratios in Skeletal Remains: A Validation Study
Theresa De Cree, BA*; Luis Cabo, MS

A62 Differences in Fracture Types, Locations, and Severity in Pre–, Peri–, and Post–Menopausal Women
Danielle Delelio, BS*; Kyra Stull, PhD; Laura Knight, MD

A63 Fractur3D: A Computed Tomography Reference Atlas of Skeletal Trauma
Terrie Simmons–Ehrhardt, MA*; Sara Sochor, MS; Anthony Falsetti, PhD

A64 The Effects of Soft Tissue on the Crystallographic Changes to Bone Mineral Upon Heating
Hannah Cross, MS*; Charlene Greenwood, PhD

A65 Identifying Taphonomic Factors Affecting the Dispersal Patterns of Surface–Scattered Human Remains: A Study of a Forensic Sample From Actual Casework
Kristine Kortonick, BS*, Luis Cabo–Perez, MS

A66 Taphonomic Change in the Sonoran Desert: Monitoring Morphology in the Period of Mummification/Advanced Skeletonization
Kassandra Parrish, BS*; Katelyn Bolhofner, PhD

A67 The Identification of Differential Burning Among Highly Fragmented Cremated Human Remains
Lisa Monetti, MSc*
A68 Tuning Microbial Succession–Based Postmortem Interval (PMI) Estimation Models: The Effect of Environmental Parameters on Model Prediction
Allison Mason, BS*; Hayden McKee, MSc; Katharina Hoeland, MS; Sarah Schwing, MA; Erin Patrick, MSc; Shawn Campagna, PhD; Dawnie Steadman, PhD; Jennifer DeBruyn, PhD

A69 The Importance of Recognizing the Indicators of Vulture Scavenging for Forensic Archaeological Recoveries and Taphonomic Interpretations
Kristine Kortonick, MS; Anthony Lanfranchi, MS*; Luis Cabo–Perez, MS

A70 The Bone Weathering Simulator: An Investigation of Bone Change Informing Forensic Anthropology Recovery Best Practices Using Crowd Sourcing
Matthew Rolland, MS*; Heather Walsh–Haney, PhD

20th Anniversary of the 9/11 Terrorist Attacks

Moderator: Bradley J. Adams, PhD
New York City Office of Chief Medical Examiner
New York, NY

Co–Moderator: Marilyn R. London, MA
University of Maryland
College Park, MD

1:00 p.m. – 1:15 p.m. A71 World Trade Center—A Historical Overview
Amy Mundorff, PhD*; Eric Bartelink, PhD; Jason Wiersema, PhD; Gaille Mackinnon, MSc

1:15 p.m. – 1:30 p.m. A72 The Role of Forensic Anthropology in the Aftermath of the 9/11 Attack on the Pentagon
Robert Mann, PhD; Thomas Holland, JD, PhD; John Byrd, PhD*; Andrew Tyrrell, MD, PhD

1:30 p.m. – 1:45 p.m. A73 A Historical Review of the Recovery and Disaster Victim Identification Protocols Employed in the September 11, 2001, Crash of United Flight 93 in Shanksville, Pennsylvania, and Lessons Learned
Dennis C. Dirkmaat, PhD*; Marilyn R. London, MA

1:45 p.m. – 2:00 p.m. A74 Lessons Learned From the September 11, 2001, Terrorist Attacks and Other Recent Mass Fatality Incidents
Frank DePaolo, PA–C*; Emily Carroll, MSPH; Helen Alesbury, MA

2:00 p.m. – 2:15 p.m. A75 The Role of the Medical Examiner in Two Mass Fatality Events: The World Trade Center Disaster and the COVID–19 Pandemic
Jason K. Graham, MD*; Barbara Sampson, MD, PhD

2:15 p.m. – 2:30 p.m. A76 The Changing Role of Forensic Anthropology in Investigations of Mass Fatality Incidents
Douglas H. Ubelaker, PhD*

2:30 p.m. – 2:45 p.m. A77 20 Years of DNA Developments for World Trade Center Victim Identification
Mark Desire, MS, JD*; Carl Gajewski, MS

2:45 p.m. – 3:00 p.m. A78 World Trade Center Data Analysis Project: 20 Years of Ongoing Identification Efforts
Bradley Adams, PhD*; Julia Sommer, PhD; Jennifer Odien, PhD; Angela Soler, PhD; Christopher Rainwater, MS; Franklin Damann, PhD

3:00 p.m. – 3:15 p.m. A79 Victim Identification and the Notification Process: A 9/11 Family Member Perspective
Mary Fetchet, LCSW*

3:15 p.m. – 3:30 p.m. Questions & Answers

3:30 p.m. – 3:45 p.m. BREAK
Mass Graves, Clandestine Graves, and Commingled Remains

Moderator:
Janet E. Finlayson, PhD
Defense POW/MIA Accounting Agency
Joint Base Pearl Harbor-Hickam, HI

Co–Moderator:
Olivia Messenger, BA
University of Indianapolis
Indianapolis, IN

3: 45 p.m. – 4:00 p.m.  A80  Geophysical Imaging of Buried Human Remains in a Mass Grave Experimental Setup
Kennedy Doro, PhD*; Amar Kolapkar; Carl–Georg Bank, PhD; Daniel Wescott, PhD; Hayley Louise Mickleburgh, PhD

4:00 p.m. – 4:15 p.m.  A81  An Actualistic Experimental Replication of a Small–Sized Mass Grave: A Taphonomic Study Aimed at Developing Virtual Training Tools, Advancing Methods of Human Identification, and the Detection and Documentation of Mass Graves
Hayley L. Mickleburgh, PhD*; Michael B. Alexander, PhD; Kennedy O. Doro, PhD; Shari L. Forbes, PhD; Andrew L. Ford, MSC; Sarah Gino, MD; Timothy P. Gocha, PhD; Lisette M. Kootker, PhD; Noemi Procopio, PhD; Eugene Robinson; Daniel J. Wescott, PhD

4:15 p.m. – 4:30 p.m.  A82  Open Source Geographic Information Systems (GIS) Models for Clandestine Mass Grave Prediction in Developing vs. Industrialized Countries
Perla Santillán, MSFS*; Tal Simmons, PhD

4:30 p.m. – 4:45 p.m.  A83  The Detection of Clandestine Graves in an Arid Environment Using Unmanned Aerial Vehicle (UAV) Remote Sensing
Abdullah Alawadhi, MSc*; Constantine Eliopoulos, PhD

4:45 p.m. – 5:00 p.m.  A84  Continuing to Shift the Forensic Anthropology Paradigm: Let’s Be Realistic!
Dennis Dirkmaat, PhD*; Luis L. Cabo, MS; Joe Adserias–Garriga, PhD

5:00 p.m. – 5:15 p.m.  A85  Pair–Matching Commingled Femora: Applying Geometric Morphometrics to Detect Shape Similarities in Human Femora
Christina Recheis*; Roland Wessling, MSc

5:15 p.m. – 5:30 p.m.  A86  Digital Pair–Matching Based on a Mesh–to–Mesh Comparison of 3D Images
Yangseung Jeong, PhD*; Eun Jin Woo, PhD; Charlene Sullivan, BS; Omar Ali, BS; Marcus Luciano; Yuryang Jang, PhD

Thursday—Session II

Perspectives on the Management of Unidentified Human Remains Cases

Moderator:
Courtney C. Siegert, MA
Texas State University
San Marcos, TX

Co–Moderator:
Justin Goldstein, MA
Texas State University
Austin, TX

8:30 a.m. – 8:45 a.m.  A87  Expanding Lines of Evidence: Contextualizing Open Forensic Cases to Enhance Identification Efforts in Texas
Molly Kaplan, MA*; Shelby Garza, MA; Jennifer Barron, MLitt; Michelle Hamilton, PhD

8:45 a.m. – 9:00 a.m.  A88  Addressing Informational Gaps in Family Reference Sample Practices for Transnational Missing Persons’ Cases
Diana Madden, MA*; Zecilly Guzman, BS; Courtney C. Siegert, MS; Kate Spradley, PhD; Sara H. Katsanis, MS; Annika Larson
9:00 a.m. – 9:15 a.m.  **A89** Practitioner Attitudes Toward the Management of Unidentified Human Remains in the United States
Jennifer E. Spence, PhD*; Courtney C. Siegert, MA; Petra Banks, MA; Devora Gleiber, MA; Justin Z. Goldstein, MA; Sophia Mavroudas, MA; Mariah Moe, MA; Emilie Wiedenmeyer, MA; Kate Spradley, PhD

9:15 a.m. – 9:30 a.m.  **A90** State Policy Regarding the Treatment of Unidentified Human Remains and the Need for Scientific Advocacy
Courtney C. Siegert MA*; Jennifer E. Spence, PhD; Petra Banks, MA; Mariah Moe, MA; Devora S. Gleiber, MA; Emilie Wiedenmeyer; Justin Z. Goldstein, MA; Sophia Mavroudas, MA; Kate Spradley, PhD

9:30 a.m. – 9:45 a.m.  **A91** A Model for Multidisciplinary Identification Investigations in Medical Examiner and Coroner Offices: The New York City Office of Chief Medical Examiner (NYC OCME) Identification Review Committee
Allison Sharplin, MA*

9:45 a.m. – 10:00 a.m.  **BREAK**

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**Forensic Anthropology Practiced Internationally**

*Moderator:* Jaymelee Kim, PhD
University of Findlay
Findlay, OH

*Co–Moderator:* Laney Feeser, MA
SNA International
Supporting the Defense POW/MIA Accounting Agency
Omaha, NE

10:00 a.m. – 10:15 a.m.  **A92** An Introduction to the International Committee of the Red Cross (ICRC) Resolve Platform, a Web Based Application for the Management of Information of Missing Persons and Human Remains
Maria Mikellide, MA*; Mirjana Kobasica, MSc; Kristy Winter, MA; Matthew Vennemeyer, MA

10:15 a.m. – 10:30 a.m.  **A93** An Overview of Recent Migrant Drowning Deaths in the Balkans
Sherry Fox, PhD*

10:30 a.m. – 10:45 a.m.  **A94** A Forensic Crisis in Mexico: Lessons Learned From International Cooperation
Aurora Marcela Pérez–Flórez, MSc*; Maximilian Murck, MSc; Maria Fernanda Lazcano Campos, BSc

10:45 a.m. – 11:00 a.m.  **A95** Forensic Anthropology in the United Kingdom: The Evolving Landscape and Professional Certification of the Discipline
Julie Roberts, PhD*; Sarah Ellingham, PhD; Rachael Carew, PhD; Linda Ainscough, MSc

11:00 a.m. – 11:15 a.m.  **A96** WITHDRAWN

11:15 a.m. – 11:30 a.m.  **A97** WITHDRAWN

11:30 a.m. – 1:00 p.m.  **BREAK**
# The Biological Profile and Human Identification

**Moderator:**  
Rebecca L. George, PhD  
Western Carolina University  
Cullowhee, NC

**Co–Moderator:**  
Ashley C. Smith, MSc  
University of Toronto  
Toronto, Ontario Canada

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<th>Time</th>
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| 1:00 p.m. –  1:15 p.m. | A98     | **Education and the Biological Profile: Survey Data on the Construction of the Biological Profile**  
Ashley Smith, MSc*; Alexis Dzubak, MS; Alexandra Saly, MSc; Evonne Turner–Byfield, MS; Justin Maiers M5 |
| 1:15 p.m. –  1:30 p.m. | A99     | **Theoretical and Methodological Considerations of the Estimation of Osteological Sex Utilizing Fuzzy Rule–Based Inference Systems**  
Katherine Lane, MA*; Donovan Adams, PhD |
| 1:30 p.m. –  1:45 p.m. | A100    | **The Precision of Morphoscopic Traits for Sex and Ancestry Estimation From 3D Surface Scans of the Crania**  
Sarah Schwing, MA* |
| 1:45 p.m. –  2:00 p.m. | A101    | **An Evaluation of the Influence of Socio–Cultural Identity on the Morphology of the Mid–Face Among Black South African Groups for Forensic Implications Using 3D Surface Scanning Modality**  
Alison F. Ridel, PhD*; Anna Oettlé, PhD; Ericka N. L’Abbé, PhD |
| 2:00 p.m. –  2:15 p.m. | A102    | **Assessing the Validity of Palate Shape as an Indicator of Population Affinity Through the Use of Elliptical Fourier Analysis (EFA)**  
Christopher Goden, MA*; Alice Gooding, PhD |
| 2:15 p.m. –  2:30 p.m. | A103    | **A Survey of Ancestry Estimation Method Preferences and Utilization in Forensic Anthropology**  
Marion Davidson, MSc*; Ruth Morgan, DPhil |
| 2:30 p.m. –  2:45 p.m. | A104    | **A Pilot Study to Improve the Identification of Unknown American Indians and Hispanic/Latinx Americans**  
Heather Edgar, PhD*; Nicollette Appel, MS; Kate Spradley, PhD; Hannah Cantrell; Nichole Benally |
| 2:45 p.m. –  3:00 p.m. | A105    | **Postmortem Radiological Computed Tomography (CT) Identification Based on Cranial Sutures**  
Michal Peer, MSc*; Chen Kugel, MD; Haim Cohen, PhD |
| 3:00 p.m. –  3:15 p.m. | A106    | **A Multifaceted Short Tandem Repeat (STR) and Next Generation Sequencing (NGS) Assessment of Burned Human Remains Using Comparative DNA Extraction and In–Solution Hybridization Capture**  
Matthew Emery, PhD; Katelyn L. Bolhofner, PhD; Suhail Ghafoor; Amanda Wissler, MA; Erin Rawls; Stevie Winingear, MA; Robert F. Oldt, BS; Sreetharan Kanthaswamy, PhD; Jane E. Buikstra, PhD; Laura C. Fulginiti, PhD; Anne Stone, PhD* |
| 3:15 p.m. –  3:30 p.m. |         | **BREAK**                                                               |
Queered Science: Interdisciplinary Approaches to Gender–Inclusive Research

**Moderator:**
Amy Michael, PhD  
University of New Hampshire  
Rochester, NH

**Co–Moderator:**
Samantha H. Blatt, PhD  
Idaho State University  
Pocatello, ID

3:30 p.m. – 3:45 p.m.  **A107**  Centering Gender–Inclusive Strategies in Forensic Anthropology  
Mariyam Isa, PhD*; Amy Michael, PhD; Samantha H. Blatt, PhD; Taylor Flaherty, MSc

3:45 p.m. – 4:00 p.m.  **A108**  Disciplinary and Community Ethics Surrounding Gender– and Sex–Diverse Individuals in Forensic Casework  
Laura Cirillo, MA*; Marin Pilloud, PhD; Jaxson Haug, MA

4:00 p.m. – 4:15 p.m.  **A109**  Necropolitics and Trans Identities: Language Use as Structural Violence  
Thomas Delgado, BA*; Kinsey Stewart, MA

4:15 p.m. – 4:30 p.m.  **A110**  Identifying Transgender and Gender–Variant Individuals in Public Records: Reconciling Differences Between Law Enforcement Data and Non–Government Organizations (NGOs)  
Raphaela Meloro, MA*; Fatimah Bouderdaben, BS

4:30 p.m. – 4:45 p.m.  **A111**  Identifying Trans Individuals From Skeletal Remains: Indicators of Gender–Affirming Interventions  
Angelica Bourgeault, MSc*

4:45 p.m. – 5:00 p.m.  **A112**  Supporting the Positive Identification of Trans Men in Forensic Anthropological Contexts  
Jenna Schall, MSc*; Tracy Rogers, PhD; Jordan Deschamps–Braly, MD, FACS

5:00 p.m. – 5:15 p.m.  **A113**  When a Reanalysis Changes Everything: A Cold Case Study of a Possible Gender–Variant Individual  
Alexis Goots, MA*; Carolyn Isaac, PhD; Todd Fenton, PhD

5:15 p.m. – 5:30 p.m.  DISCUSSION

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Friday—Session I

Pioneers of Color: A Diverse Narrative of Forensic Anthropology

**Moderator:**
An–Di Yim, PhD  
Truman State University  
Kirksville, MO

**Co–Moderator:**
Chaunesey M.J. Clemmons, MA  
Texas State University  
Austin, TX

8:30 a.m. – 8:45 a.m.  **A114**  A Diverse Past, Present, and Future: Resituating the Anthro in Forensic Anthropology  
Chaunesey M.J. Clemmons, MA*; Matt C. Go, PhD; Alba E. Craig, BA; Isis Dwyer, MA; Aaron J. Young, MA; Kamar Afra, MA

8:45 a.m. – 9:00 a.m.  **A115**  A Counter–Pantheon to Forensic Anthropology’s Classic Luminaries  
Jesse R. Goliath, PhD*; Matthew C. Go, PhD; Allison Nesbitt, PhD; Aaron J. Young, MA; Sydney S. Garcia, MA

9:00 a.m. – 9:15 a.m.  **A116**  Back to Black: The Legacy and Contributions of Black Pioneers of the 20th Century  
Isis Dwyer, MA*; Tisa N. Loewen, MA; Chaunesey M.J. Clemmons, MA; Evonne Turner–Byfield, MSc; Jesse R. Goliath, PhD; Allison Nesbitt, PhD; Carter Clinton, PhD; Kendra Isable, MA
9:15 a.m. – 9:30 a.m.  **A117**  Drawing Parallels: Black, Indigenous, and People Of Color (BIPOC) Representation in Other Medicolegal Fields  
*An–Di Yim, PhD*; Jessica Juarez, PhD; Jesse Goliath, PhD; Isabel Melhado

9:30 a.m. – 9:45 a.m.  **A118**  Objectivity in the Historical Narrative of Forensic Anthropology  
*Kamar Afra, MA*; Elaine Y. Chu, MA; Sydney S. Garcia, MA

9:45 a.m. – 10:00 a.m.  **A119**  Forensic Anthropology's Role in Activism and Advocacy  
*Fatimah A. Bouderdaben, BS*; Ivanna Robledo, MA; Alba Craig, BA; Sydney S. Garcia, MA; Tanya Ramos, BA; Evonne Turner–Byfield, MSc

10:00 a.m. – 10:15 a.m.  **A120**  The (Colonial) Impacts of (Western) Forensic Anthropology in the International Sphere  
*Nandar Yukyi, MA*; An–Di Yim, PhD; Matthew C. Go, PhD; Ivanna Robledo, MA

10:15 a.m. – 10:30 a.m.  **A121**  Homework for Modern Forensic Anthropologists  
*Elaine Y. Chu, MA*; Nandar Yuky, MA; Matthew C. Go, PhD

10:30 a.m. – 11:00 a.m.  **DISCUSSION**

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**Poster Session**

11:30 a.m. – 1:00 p.m.  **A122**  Quantification of the Mincer et al. Age Estimation Method Using Radiographs  
*Bailey Oettel, MA*; Brittany Walter, PhD; William Belcher, PhD

**A123**  Does Structural Violence Impact Forensic Anthropological Age Estimation? Investigating Skeletal Indicators of Biological “Weathering” in Modern United States Individuals  
*Taylor Walkup, BA*; Alysha Winburn, PhD

**A124**  The Combined Use of Craniometrics and Odontometrics to Estimate Parameters of the Biological Profile  
*SaMoura L. Horsley*; Cassie Skipper, MA; Marin Pilloud, PhD

**A125**  Validating the Use of Osteoarthritis as an Indicator of Age in Human Skeletal Remains  
*Ariana Strasheim, BA*; Alysha P. Winburn, PhD; Michala Stock, PhD

**A126**  An Evaluation of Palate Shape Scoring Systems  
*Christopher Maier, PhD*

**A127**  A Pilot Study Re–Examining the Hartnett Adult Age–at–Death Estimation Methods as Component Systems  
*Amelia Konda, BA*; Sara Getz, PhD; Nicholas Passalacqua, PhD

**A128**  Application of the forAGE Program to Pubic Symphyseal Surface in a Korean Population  
*Hyun Jin Park, MSc*; Eun Jin Woo, PhD; Kyung–Seok Hu, DDS, PhD

**A129**  Age Estimation From Sternebral Fusion in an Indian Population: A Computed Tomographic Evaluation  
*Rutwik Shedge, MSc*; Tanuj Kanchan, MD; Pawan Garg, MD; Shilpi Dixit, MD; Varsha Warrier, MSc; Kewal Krishan, PhD

**A130**  Age Estimation Via Dry Bone Measurements: Evidence From Samples of Soldiers Exiled in Two Concentration Camps in Bari  
*Mirko Leonardelli, PhD*; Valeria Santoro, PhD; Antonio De Donno, MD; Federica Mele, MD; Mariagrazia Calvano, MD; Enrica Macorano, MD; Stefano Duma, MD; Carmelinda Angrisani, MD; Sara Sablone, MD; Francesco Introna, MD
A131 Developing Subadult Sex Estimation Standards Using Adult Morphological Sex Traits and an Ontogenetic Approach
Stephanie Cole, MS*

A132 Investigating Reproducibility of a Skeletal Age Estimation Method on Two Samples With Remarkably Different Demographic Profiles
Elena Sierra–Serrano, MSc*; John Albanese, PhD; Hugo F. V. Cardoso, PhD

A133 A Revised Method for Adult Age–at–Death Estimation From the Auricular Surface of the Ilium
Krista Bennett, MA*; Sophia Reck, MA; Teresa Wilson, PhD

A134 The Application of Computed Tomography (CT) – Rendered Images for the Evaluation of Traits Associated With Ancestry Estimation in Children
Marianna Cervantes, MSc*; Hugo Cardoso, PhD

A135 Geometric Morphometrics for Sex Estimation of the Scapula
Savannah Holcombe, BSc*

A136 The Impact of Sex and Population Affinity on the Dental Development of Subadult Individuals
Carolyln Sauter, BS*; Kelly Kamnikar, MA; Joseph Hefner, PhD; Nicholas Herrmann, PhD; Jennifer Spence, PhD

A137 The Correlation Between Spheno–Occipital Synchondrosis (SOS) Fusion and Pubertal Stage From Postmortem Computed Tomography (CT) Scans
Francesca Dunn, MSc*; Jordan Wright, MA; Zia Coblentz, BS; Jonathan Bethard, PhD

A138 A Comparison of Frontal Sinus Morphology Using Scout Radiographs and 3D Skull Images: Implications for Forensic Identification Methods
Patricia Avent, BA*; Jessica Campbell, PhD; Heather Garvin PhD; Lauren Butaric, PhD

A139 The Relationship Between Environmental Factors and Skeletal Metrics in Contemporary New Mexicans
Chelsea Cataldo–Ramirez, MS*; Kerianne Armelli, MS; Jessica Yopak, MS

A140 A Validation of Compatibility of the Median Sagittal Plane for 3D Metric Analysis of Facial Models: Cone Beam Computed Tomography (CBCT) and Multidetector Computed Tomography (MDCT)
Dong–Ho Kim, BSc*; Eun–Ju Jung; Se–Hyun Oh; Won–Joon Lee, PhD; Sang–Seob Lee, PhD; Yi–Suk Kim, MD, PhD; U–Young Lee, MD, PhD

A141 A Validation of the Utilization of Automatic Placement of Anatomical and Sliding Landmarks on 3D Models for Shape Analysis of Human Pelves
Thandolwethu Mbonani, BSc*; Alieske Hagg, MSc; Ericka N. L’Abbé, PhD; Anna Oettlé, PhD; Alison Ridel, PhD

A142 A Validation Test of the Total Difference Technique for Assessing the Frontal Sinus
Jessica L. Campbell, PhD*; Lauren Butaric, PhD

A143 The Precision of Standard Cranial Measurements in Dry Bones and Multi–Slice Computed Tomography (MSCT) Images: A Preliminary Study
Ivan Jerković, MSc*; Tina Bareša; Elvira Krešić; Anida Adamić Hadžić; Željana Bašić; Krešimir Dolić; Marija Čavar Borić; Danijela Budimir Mršić; Mislav Čavka; Mario Šlaus; Dragana Primorac. MD, PhD; Šimun Anđelinović; Ivana Krutić

A144 Uncovering Identities: A Case Study on Using Maxillary Sinus Morphologies in Human Identification
Terese Runge, MSc; Joel D. Irish, PhD; Alicia Ventresca Miller, PhD; Matteo Borrini, PhD*

A145 The Sociodemographic Composition of a Modern Juvenile Postmortem Computed Tomography (CT) Collection: Examining Trends in Body Size, Manner of Death, and Demographic Parameters
Julia Meyers, MA*; Natalie Adolphi, PhD; Hugo Cardoso, PhD
The Application of 3D Models in Age–at–Death and Sex Estimation of the Pubic Symphyseal Face
Anthony V. Lanfranchi, MS*; Luis L. Cabo, MS

The Accuracy of Topographical and Shape Analysis Using 3D Surface Scanning Compared to Micro–Computed Tomography (Micro–XCT)
Pearl Bothma, BSc*; Leandi Liebenberg, MSc; Ericka N. L’Abbé, PhD; Anna Oettlé, PhD; Alison Ridel, PhD

Myositis Ossificans Circumscripta: Evidence Contributing to the Reconstruction of a Life History
Jennifer Love, PhD*; Deborrah Pinto, PhD; Julie Fleischman, PhD; Jason Wiersema, PhD

The Effects of Gender Reassignment Surgery and Related Hormone Treatment on Morphological Sex Estimation in Forensic Anthropology
Shivani Sanger, MSc*; Heather Bonney, PhD; Nikolas P. Lemos, PhD

Trotter’s Tibia Error in Historical Context
Emily Wilson*

Age Estimation From Cranial Suture Obliteration: A Computed Tomography (CT) –Based Evaluation
Mohammed Akbar, MBBS*; Raghvendra Singh Shekhawat, MD; Vikas Meshram, MD; Taruna Yadav, MD; Tanuj Kanchan MD; Rutwik Shedge, MSc

Age Estimation From Pubic Symphyseal Morphological Changes: A Computed Tomography (CT) –Based Evaluation
Seshagiri Raju Vempalli, MBBS; Vikas Meshram, MD*; Rutwik Shedge, MSc; Tanuj Kanchan, MD; Raghvendra Singh Shekhawat, MD

Personal Identification of the L1–L5 Lumbar Vertebra Using Antemortem Computed Tomography (AMCT) and Postmortem Computed Tomography (PMCT) Scans
Summer J. Decker, PhD*; Guy Rutty, MBE; Daniel Martin, BS; Jonathan Ford, PhD

The Limitations of Sex Estimation: A Comparison of Osteological, Genomic, and Proteomic Methods
Glendon Parker, PhD*; Jane Buikstra, PhD

A Computed Tomography (CT) –Based Evaluation of the Acetabulum for Age Estimation in an Indian Population
Varsha Warrier, MSc*; Tanuj Kanchan, MD; Pawan Kumar Garg, MD; Shilpi Gupta Dixit, MD, PhD; Rutwik Shedge, MSc; Kewal Krishan, PhD
Friday—Session II

Taphonomy and the Postmortem Interval

Moderator: Kyle A. McCormick, PhD
Defense POW/MIA Accounting Agency
Joint Base Pearl Harbor–Hickam, hi

Co–Moderator: Michala K. Stock, PhD
Metropolitan State University of Denver
Denver, CO

8:45 a.m. – 9:00 a.m. A156 Toward a Model for Estimating Postmortem Interval (PMI) at High Altitude: Categorical Macromorphoscopic Changes Observed Throughout the Trajectory of Human Decomposition in the Colorado Rocky Mountains
Christiane Baigent, MSc*

9:00 a.m. – 9:15 a.m. A157 Modeling Scavenging Patterns Within the Willamette Valley of Oregon to Inform Search Structure in Medicolegal Investigations
Cheyenne Collins, BS*; Jeanne McLaughlin, PhD; Ashley Kendell, PhD

9:15 a.m. – 9:30 a.m. A158 WITHDRAWN

9:30 a.m. – 9:45 a.m. A159 Testing the Efficacy of Bone Surface Swab Sampling of Microbial Colonization to Determine Postmortem Submersion Interval (PMSI) in Lentic and Lotic Environments
Sarah Rose, BSc*; Hannah Johnson, MSc; Claire Cartazzo, PhD; Jenise Swali, PhD; Tal Simmons, PhD; Baneshwar Singh, PhD

9:45 a.m. – 10:00 a.m. BREAK

Age–at–Death Estimation

Moderator: Kate M. Lesciotto, PhD
Sam Houston State University
Conroe, TX

Co–Moderator: Heather A. Walsh–Haney, PhD
Florida Gulf Coast University
Fort Myers, FL

10:00 a.m. – 10:15 a.m. A160 Improving Age–at–Death Estimation in Forensic Anthropology Applying a Translational Approach
Sara C. Zapico, PhD*; Quentin Gauthier, PhD; Aleksandra Antevska, BS; Bruce McCord, PhD

10:15 a.m. – 10:30 a.m. A161 Reference and Target Sample Age Distribution Effects in Juvenile Dental Age Estimation
Valerie Sgheiza, MA, MS*; Helen Liversidge, PhD

10:30 a.m. – 10:45 a.m. A162 An Age–at–Death Estimation Using Cementochronology in Thermally Altered Teeth
Ryen Weaver, MS*; Anthony Falsetti, PhD; Timothy Gocha, PhD; Joseph DiZinno, DDS

10:45 a.m. – 11:00 a.m. A163 Estimating Adult Age Using Radiographs of the Proximal Femur
Jong In Kim, HBSc*; Tracy Rogers, PhD

11:00 a.m. – 11:15 a.m. A164 From Subadult to Adult: Growth of the Cranial Complex and Its Implications in Forensic Anthropology
Christopher A. Wolfe, MA*; Briana T. New, MA; Louise K. Corron, PhD; Kate Spradley, PhD; Kyra E. Stull, PhD

11:15 a.m. – 11:30 a.m. A165 From Subadult to Adult: The Expression of Cranial Macromorphoscopic Traits Through Ontogeny
Kyra E. Stull, PhD*; Elaine Chu, MA; Louise Corron, PhD
### Microscopic, Molecular, and Atomic Techniques

**Moderator:**
Colleen F. Milligan, PhD  
California State University at Chico  
Chico, CA

**Co–Moderator:**
Devin Adcox  
California State University at Chico  
Chico, CA

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<td>1:00 p.m. – 1:15 p.m.</td>
<td>A167</td>
<td>Are Stable Isotopes Truly Stable Enough for Forensic Applications? Forensic Stable Isotope Research at a Human Decomposition Facility</td>
<td>Melanie Beasley, PhD*</td>
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<tr>
<td>1:15 p.m. – 1:30 p.m.</td>
<td>A168</td>
<td>The Significance of Sociocultural Covariates in Stable Oxygen Isotope Analysis: Implications for Region–of–Origin Predictions for Global Populations</td>
<td>Taylor Lambrigger, BS*</td>
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<td>1:30 p.m. – 1:45 p.m.</td>
<td>A169</td>
<td>The Detection of Bone Particles in Non–Carbonate Soils</td>
<td>Angi Christensen, PhD*; Ian Saginor, PhD</td>
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<td>1:45 p.m. – 2:00 p.m.</td>
<td>A170</td>
<td>Longitudinal Effects of Prolonged Opioid Use on Cortical Bone Remodeling in a Rabbit Model: Part II—Intraskeletal Histological Variability and Regional Differences</td>
<td>Janna Andronowski, PhD*; Mary Cole, PhD; Reed Davis, MSc; Adam Schuller, BSc; Gina Tubo, BSc; Abigail LaMarca, BSc; Joshua Taylor, BSc</td>
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### Thermal Trauma & Burn Pattern Analysis

**Moderator:**
Lindsay H. Trammel, PhD  
St. Louis County Office of the Medical Examiner  
St. Louis, MO

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

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<td>2:15 p.m. – 2:30 p.m.</td>
<td>A171</td>
<td>Post–Fire Modifications of Burned Human Remains</td>
<td>Elayne Pope, PhD*; Chelsey Juarez, PhD; Alison Galloway, PhD</td>
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<td>2:30 p.m. – 2:45 p.m.</td>
<td>A172</td>
<td>The Effects of Experimental Whole–Body Burning on the Cortical Bone Microstructure of Ribs, Femora, and Metatarsals</td>
<td>Lauren A. Meckel, PhD*; Sophia Mavroudas, MA; Justin Goldstein, MA; Shelby Garza, MA; Timothy Gocha, PhD</td>
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<td>2:45 p.m. – 3:00 p.m.</td>
<td>A173</td>
<td>Estimating Exposure Time From a Set of Burned Human Remains</td>
<td>Amanda Williams, PhD*</td>
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<td>3:00 p.m. – 3:15 p.m.</td>
<td>A174</td>
<td>3D Analysis of the Microstructure of Heated Bone to Aid in Species Differentiation</td>
<td>Hannah Cross, MS*; Charlene Greenwood, PhD</td>
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<td>3:15 p.m. – 3:30 p.m.</td>
<td>A175</td>
<td>Do Bone Elasticity and Postmortem Interval Affect Forensic Fractographic Analyses of Bone?</td>
<td>Jessica Skinner, PhD*; Natalie Langley, PhD; Malin Joseph, MS; Peter Goguen; Loukham Shyamsunder, PhD; Subramaniam Rajan, PhD</td>
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The Value of Antemortem Skeletal Data in Interpretation of Acute Trauma: Context, Timing, Mechanism, and Likelihood Risk Assessment
Donna Boyd, PhD*

Trauma: A New Application for Aiding in Blunt Rib Trauma Interpretations
Cortney Hulse, MA*; Elaine Chu, MA; Kyra Stull, PhD

The Frequency of Wedge Fractures in Experimental Bending of the Tibia
Angela Harden, PhD*; A. Yun–Seok Kang, PhD; Alexander Bendig, MS; John Bolte, PhD; Carla Goldsmith; Amanda Agnew, PhD

Correlation or Causation? Concealing the Victims and Survivors of Domestic Violence
Micki David, MS*; Heather Walsh–Haney, PhD; Erica Baer, PhD

Indirect Gunshot Trauma to the Skeleton: A Meta–Analysis and Experimental View
Samantha Coberly, PhD*