

Wednesday

Poster Session

- 11:30 a.m. – 1:00 p.m.
- A1 Pedagogical Access and Ethical Considerations in Forensic Anthropology and Bioarchaeology**
Micayla Spiros, MSc; Amber Piemons, MA; Jack Biggs, BA*

 - A2 A Virtual Anthropological Approach to Assessing the Similarity of Joint Surfaces With Applications for Sorting Commingled Human Remains**
*Helen Brandt–Litavec, MS**

 - A3 The Segregation of Individuals From Large Commingled Assemblages Via Stable Isotope Ratio Analysis of Bone Collagen**
Mary Megyesi, PhD; Gregory Berg, PhD; Lesley Chesson, MS*

 - A4 Forensic Anthropology Casework at the Cook County, Illinois, Medical Examiner’s Office, 2012–2020**
Erin Waxenbaum, PhD; Anne Grauer, PhD*

 - A5 Myriad Maps and Applied Anthropology: Needs and Limitations**
Molly Miranker, MA

 - A6 Documenting Outdoor Simulated Scenes With Photogrammetry: Methods for Improving Dappled Lighting Conditions**
Caroline Jasiak, MA; John Schultz, PhD; Morgan Ferrell, MA*

 - A7 Tracing Academic Relatedness Via the Forensic Anthropology Phylogeny (FAP)**
*Katharine Kolpan, PhD**

 - A8 Exploring Forensic Research Interests of a United States–Based Anthropology Faculty**
Rhian Dunn, MS; Christopher Rainwater, MS; Nicholas Passalacqua, PhD*

 - A9 Advances in Sorting Commingled Human Remains: A Preliminary Study Using the Subtalar Joint**
*Ioanna Anastopoulou, PhD; Nikoletta Manta, MSc; Konstantinos Katsos, MD, PhD; Emmanouil Sakelliadis, MD, MSc, PhD; Konstantinos Moraitis, MSc, PhD**

 - A10 Calculating the Minimum Number of Individuals (MNI) and Most Likely Number of Individuals (MLNI) for a Commingled Fetal and Infant Remains Sample**
Ariana V. Agyemang, BS; Helen Brandt–Litavec, MS; Elizabeth A. DiGangi, PhD*

 - A11 We Take Care of Our Own: Utilizing the LGBT+ Accountability for Missing and Murdered Persons (LAMMP) Database**
Anthony Redgrave, MS; Amy Michael, PhD; Jessica Veltstra, MS; Samantha Blatt, PhD; Mariyam Isa, PhD*

 - A12 Applying a Biocultural Signature of Embodied Stress to Identify Latin American Migrants From a Cold Case Sample in South Florida**
Enrique Plasencia, BA; Allysha Winburn, PhD*

 - A13 OsteoID: A Freely Available Tool for Skeletal Species Identification**
Heather Garvin, PhD; Rachel Dunn, PhD; Sabrina Sholts, PhD; M. Schuyler Litten, MA; Merna Mohamed, MSc; Nathan Kuttickat, BSc; Noah Skantz, BS, BA*

 - A14 Assessing Opioid Exposure and Opioid Overdose Deaths in Skeletal Casework Through Collaboration With Organ Procurement Organizations**
*Janna Andronowski, PhD; Randi Depp, MS**

- A15 Evaluating the Effect of Cocaine Use on Dorsum Sellae (DS) Demineralization**
*Tanin Zadeh, MS**; *Ellen Fricano, PhD*; *Vicki Wedel, PhD*
- A16 The Effects of Prolonged Opioid Exposure on Bone Fracture Strength of Rabbit Middle Ribs**
*Reed Davis, MSc**; *Mary Cole, PhD*; *Henry Astley, PhD*; *Janna Andronowski, PhD*
- A17 Understanding Skeletal and Body Donation in Forensic Anthropology: Developments and Procedures**
*Kerianne Armelli, MS**; *Rhian Dunn, MS*; *Carolyn Isaac, PhD*
- A18 Modeling Grave Depressions Using Open–Source Light Detection And Ranging (LiDAR) Data at the Forensic Anthropology Research Facility**
*Mariah Moe, MA**; *Shelby Garza, MA*; *Nicholas Herrmann, PhD*
- A19 Discovering Clandestine Human Remains Using Unmanned Aerial System Based Remote Sensing**
*Daniel Wescott, PhD**; *Gene Robinson*; *Derek Anderson, PhD*; *Shane Seitz*
- A20 A Robust Methodology for Stable Isotope Analysis of Human Tooth Enamel**
*Francesca Spencer, BS, BA**; *Kirsten Verostick, PhD*; *Alejandro Serna, PhD*; *Lesley Chesson, MS*; *Gregory Berg, PhD*; *Gabriel Bowen, PhD*
- A21 Repatriation and Responsibility: Consideration Beyond Traditional Constructs**
*Rose Leach, MA**; *Kerianne Armelli, MS*
- A22 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**
*Kaitlyn Schoonover, BS**; *Luis Cabo, MS*
- A23 A Spatiotemporal Analysis of the National Missing and Unidentified Persons System (NamUs) Unidentified Person Cases Along the United States–Mexico Border**
*Justin Z. Goldstein, MA**; *Courtney Siegert, MA*; *Nicholas Herrmann, PhD*
- A24 Developing a Tissue–Specific Multi–Isoscape ($\delta^{18}\text{O}$ and $^{87}\text{Sr}/^{86}\text{Sr}$) to Estimate Region of Origin**
*Julianne Sarancha, MS**; *Alexis Baide, MA*; *Clare Dittmore, BA*; *Thomas Delgado, BA*; *Gabriel Bowen, PhD*
- A25 Last Seen Location: Using Missing Persons Data for Identification in Forensic Anthropology**
*Liam Johnson, MA**; *Teresa Wilson, PhD*
- A26 Understanding the Spatial Relationships Between the National Missing and Unidentified Persons System (NamUs) Unidentified and Missing Persons Cases in Texas**
*Shelby L. Garza, MA**; *Justin Z. Goldstein, MA*
- A27 An Initial Review of the Long–Term Unidentified Cases Managed by the Forensic Anthropology Center at Texas State University (FACTS)**
*Emilie L. Wiedenmeyer, MA**; *Justin Z. Goldstein, MA*; *Petra Banks, MA*; *Mariah Moe, MA*; *Sophia Mavroudas, MA*; *Michelle D. Hamilton, PhD*
- A28 Stature Estimation From Facial Parameters—A Computed Tomography (CT) Scan–Based Observational Study in a South Indian Adult Population**
*Siddhartha Das, MD**
- A29 OsteoFlo: A FIJI/ImageJ Toolkit for Semi–Automated Identification and Characterization of Fluorescently Labeled Secondary Osteons**
*Mary Cole, PhD**; *Joshua Taylor, BSc*; *Medhat Hassan*; *Janna Andronowski, PhD*
- A30 A Multi–Isotopic Analysis of Ajnala Skeletal Remains for Provenance of Their Local or Non–Local Origin, Geographic Affinity, and Mobility Patterns**
*Jagamahender Singh Sehwat, PhD**

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

- 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 Yuky, MA; An-Di Yim, PhD; Isis Dwyer, MA; Alba E. Craig, BA; Jesse R. Goliath, PhD; Chaunese 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**
Erica 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**
Raphaella 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

- 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**
Kelsea 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; Clairia Ralston, MS; Kelly McGehee, BA*
- 11:45 a.m. – 1:00 p.m. **BREAK**

Poster Session

- 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*
- A44** **Toward a Better Understanding of the Effects of Leaching and Diagenesis on ⁸⁷Sr/⁸⁶Sr of Human Hair Keratin**
Saskia T.M. Ammer, PhD; Lisette Kootker, PhD; Gareth Davies, PhD*
- 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*
- 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*
- A47** **A Retrospective Analysis of Scavenging in Southern Nevada Forensic Anthropology Cases (2000–2021)**
Katharine Woollen, MS; Jennifer Byrnes, PhD*
- 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*
- 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*
- 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; Deborah Pinto, PhD*
- A57 The Usefulness of Transmission Electron Microscopy (TEM) for the Estimation of the Postmortem Interval (PMI): An Analysis of Ultrastructural Autolytic 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 Kortnick, 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**

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*; *María 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

- 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 MS*
- 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)**
*Raphaella 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**

Friday—Session I

Pioneers of Color: A Diverse Narrative of Forensic Anthropology

Moderator:

An-Di Yim, PhD
Truman State University
Kirksville, MO

Co-Moderator:

Chaunese 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**
*Chaunese 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; Chaunese 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 Yuky, 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**

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**; *Allysha 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**; *Allysha 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 Warriar, 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**
Carolynn Sauter, BS; Kelly Kamnikar, MA; Joseph Hefner, PhD; Nicholas Herrmann, PhD; Jennifer Spence, PhD*
- A137 The Correlation Between Spheno–Occipital Sychondrosis (SOS) Fusion and Pubertal Stage From Postmortem Computed Tomography (CT) Scans**
Francesca Dunn, MSc; Jordan Wright, MA; Zia Coblenz, 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; Anita Adamić Hadžić; Željana Bašić; Krešimir Dolić; Marija Čavar Borić; Danijela Budimir Mršić; Mislav Čavka; Mario Šlaus; Dragan Primorac. MD, PhD; Šimun Anđelinović; Ivana Kružić*
- A144 Uncovering Identities: A Case Study on Using Maxillary Sinus Morphologies in Human Identification**
*Teresa 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*

- A146 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*
- A147 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 Oetlé, PhD; Alison Ridel, PhD*
- A148 Myositis Ossificans Circumscripta: Evidence Contributing to the Reconstruction of a Life History**
Jennifer Love, PhD; Deborrah Pinto, PhD; Julie Fleischman, PhD; Jason Wiersema, PhD*
- A149 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*
- A150 Trotter's Tibia Error in Historical Context**
*Emily Wilson**
- A151 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*
- A152 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*
- A153 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*
- A154 The Limitations of Sex Estimation: A Comparison of Osteological, Genomic, and Proteomic Methods**
Glendon Parker, PhD; Jane Buikstra, PhD*
- A155 A Computed Tomography (CT) –Based Evaluation of the Acetabulum for Age Estimation in an Indian Population**
Varsha Warriar, 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, BSc; 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 Cartozzo, 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*

11:30 a.m. – 11:45 a.m. **A166** **From Subadult to Adult: Understanding Univariate Craniometric Growth Patterns**
*Briana T. New, MA**; *Christopher A. Wolfe, MA*; *Louise K. Corron, PhD*; *Kate Spradley, PhD*; *Kyra E. Stull, PhD*

11:45 a.m. – 1:00 p.m. **BREAK**

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

1:00 p.m. – 1:15 p.m. **A167** **Are Stable Isotopes Truly Stable Enough for Forensic Applications? Forensic Stable Isotope Research at a Human Decomposition Facility**
*Melanie Beasley, PhD**

1:15 p.m. – 1:30 p.m. **A168** **The Significance of Sociocultural Covariates in Stable Oxygen Isotope Analysis: Implications for Region-of-Origin Predictions for Global Populations**
*Taylor Lambrigger, BS**

1:30 p.m. – 1:45 p.m. **A169** **The Detection of Bone Particles in Non-Carbonate Soils**
*Angi Christensen, PhD**; *Ian Saginor, PhD*

1:45 p.m. – 2:00 p.m. **A170** **Longitudinal Effects of Prolonged Opioid Use on Cortical Bone Remodeling in a Rabbit Model: Part II—Intraskkeletal Histological Variability and Regional Differences**
*Janna Andronowski, PhD**; *Mary Cole, PhD*; *Reed Davis, MSc*; *Adam Schuller, BSc*; *Gina Tubo, BSc*; *Abigail LaMarca, BSc*; *Joshua Taylor, BSc*

2:00 p.m. – 2:15 p.m. **BREAK**

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

2:15 p.m. – 2:30 p.m. **A171** **Post-Fire Modifications of Burned Human Remains**
*Elayne Pope, PhD**; *Chelsey Juarez, PhD*; *Alison Galloway, PhD*

2:30 p.m. – 2:45 p.m. **A172** **The Effects of Experimental Whole-Body Burning on the Cortical Bone Microstructure of Ribs, Femora, and Metatarsals**
*Lauren A. Meckel, PhD**; *Sophia Mavroudas, MA*; *Justin Goldstein, MA*; *Shelby Garza, MA*; *Timothy Gocha, PhD*

2:45 p.m. – 3:00 p.m. **A173** **Estimating Exposure Time From a Set of Burned Human Remains**
*Amanda Williams, PhD**

3:00 p.m. – 3:15 p.m. **A174** **3D Analysis of the Microstructure of Heated Bone to Aid in Species Differentiation**
*Hannah Cross, MS**; *Charlene Greenwood, PhD*

3:15 p.m. – 3:30 p.m. **A175** **Do Bone Elasticity and Postmortem Interval Affect Forensic Fractographic Analyses of Bone?**
*Jessica Skinner, PhD**; *Natalie Langley, PhD*; *Malin Joseph, MS*; *Peter Goguen*; *Loukham Shyamsunder, PhD*; *Subramaniam Rajan, PhD*

Trauma Analysis

Moderator:

Diana L. Messer, PhD
Western Carolina University
Cullowhee, NC

Co-Moderator:

Jordan Roberson
University of Indianapolis
Indianapolis, IN

- 3:30 p.m. – 3:45 p.m. **A176** **The Value of Antemortem Skeletal Data in Interpretation of Acute Trauma: Context, Timing, Mechanism, and Likelihood Risk Assessment**
*Donna Boyd, PhD**
- 3:45 p.m. – 4:00 p.m. **A177** **tRauma: A New Application for Aiding in Blunt Rib Trauma Interpretations**
Cortney Hulse, MA; Elaine Chu, MA; Kyra Stull, PhD*
- 4:00 p.m. – 4:15 p.m. **A178** **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*
- 4:15 p.m. – 4:30 p.m. **A179** **Correlation or Causation? Concealing the Victims and Survivors of Domestic Violence**
Micki David, MS; Heather Walsh–Haney, PhD; Erica Baer, PhD*
- 4:30 p.m. – 4:45 p.m. **A180** **Indirect Gunshot Trauma to the Skeleton: A Meta–Analysis and Experimental View**
*Samantha Coberly, PhD**