

ANTHROPOLOGY

Wednesday

Poster Session

11:30 am – 1:00 pm	A1	A Comparative Analysis of Different Maceration Techniques and Their Effects on Bone Integrity Emily Mahoney*; Chloe Cummings, BS; An-Di Yim, PhD
11:30 am – 1:00 pm	A2	The Effects of Basic Solution Concentration and Bone Tissue Type on Progressive Decomposition Solution Color and Clarity Kendall Gehring, MA*
11:30 am – 1:00 pm	A3	The Impact of Standard Forensic Processing Practices on the Accuracy of Dental Age Estimation Methods Chloe Yingling, BS*; McCarthy Lang, BS; Luis Cabo, MS; Joe Adserias-Garriga, PhD; Cheyenne Hindman, MS
11:30 am – 1:00 pm	A4	Flesh to Bone: Time-to-Skeletonization Using <i>D. Maculatus</i> in a Forensic Anthropology Laboratory Gage Papp, BS*; Micki Besse, MS; Heather Walsh-Haney, PhD; Savanna Agilar, MS; Joyce Fassbender, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A5	Pore Extractor 2D v. 2.0: New Utilities for Mapping Collagen Fiber Orientation and Cortical Pore Distribution Mary Cole, PhD*; Emma Brzezinski, MA; Amanda Agnew, PhD
11:30 am – 1:00 pm	A6	Investigating the Position and Morphology of the Mental Foramen for Sex Estimation Natalie Wise, MA*; Erin Kimmerle, PhD
11:30 am – 1:00 pm	A7	Exploring Cranial Morphological Variation Within Operation Identification Cases Using 3D Surface Geometric Morphometrics. Rebekah Stowe, MA*; Kate Spradley, PhD; Nicholas Herrmann, PhD; Elaine Chu, PhD
11:30 am – 1:00 pm	A8	Testing Approaches to Population Affinity/Sex Classification Using FORDISC 3.1: Considerations for Best Practice Recommendations for United States Forensic Casework Alexandra Klaes, PhD*; Kate Lesciotto, PhD
11:30 am – 1:00 pm	A9	Comparing the Utility of 3-D Photogrammetry Models and Casts in Forensic Anthropology Lauren Keith, BS*; Hailee Desrosier, MS; Carolyn Isaac, PhD; Joseph Hefner, PhD
11:30 am – 1:00 pm	A10	Rethinking Variable Standardization: Why Mahalanobis Distance Does Not Require Normalized Craniometric Data Joseph Hefner, PhD*; Michael Kenyhercz, PhD
11:30 am – 1:00 pm	A11	A Case Study: The Use of Interosseous Infusions in Adults and Resulting Skeletal Indicators Kaleigh Best, PhD*; Nicholas Passalacqua, PhD
11:30 am – 1:00 pm	A12	Assessing Potential for Individual Variation in Maxillary Sinuses and Mastoid Air Cells: Metric Size Components Tayler Franklin*; Kaleigh Best, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)

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11:30 am – 1:00 pm	A13	Embedded in the Bones: An Investigation of Marginalization Through the Structural Vulnerability Profile Navit Nachmias, BA*; Kate Spradley, PhD; Elaine Chu, PhD; Michelle Hamilton, PhD
11:30 am – 1:00 pm	A14	Is Sternotomy Wire Morphological Variation Sufficient to Support a Scientific Identification by Comparative Medical Radiography? Christine Pink, PhD*; Jered Cornelison, PhD; B Charles, PhD
11:30 am – 1:00 pm	A15	A New Methodology of Scoring DISH Severity: A Composite Scoring System Lauren Nichols, MA*; Erin Kimmerle, PhD
11:30 am – 1:00 pm	A16	The Application of Digital Quantitative Analysis From 3D Scans of Entheses for the Possible Use in Age Estimation Gillian Stewart, BA* (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A17	3D-CT-Based Estimation of Facial Soft Tissue Thickness in the Punjabi Population for Craniofacial Reconstruction Akhilesh Pathak, APM; Chandrakala Gadige, APM
11:30 am – 1:00 pm	A18	A Disabled Combat Soldier: Multiple Skeletal Anomalies With Klippel-Feil Syndrome Hyejin Lee, PhD*; Changwon Lee, MA
11:30 am – 1:00 pm	A19	From Flesh to Formula: Devising a Modular Coefficient-Based System for Population-Specific Facial Soft Tissue Thickness Estimation in Forensic Facial Approximation Shubham Thakur, MSc*; Jagmahender Singh Sehwat, PhD
11:30 am – 1:00 pm	A20	The Morphological Variation of the Crista Galli in a Contemporary United States Population Chastidy Gilbert, BA*; Stephen Nawrocki, PhD; Krista Latham, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A21	Human Body Donation and Donated Skeletal Collection Data Management: The Advantages of Building an Internal Database for Education and Research Skyler Yakes, MA*
11:30 am – 1:00 pm	A22	A Retrospective of Forensic Anthropology Casework at Two Rural University Labs, 2018–2025: Trends, Challenges, and Implications Samantha Blatt, PhD*; Amy Michael, PhD
11:30 am – 1:00 pm	A23	Standardizing Skeletal Sex: A Review of Terminology, Cited Methodology, and Bias-Mitigation in the Standards and Training Documents of United States Forensic Anthropology Institutions Taylor Flaherty, PhD*; Marion Davidson, MSc; Allysha Winburn, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A24	Methodology Trends in Forensic Anthropological Casework and the Implications for Current Practice Jasper Shaw, MA*; Donovan Adams, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A25	The Value of Forensic Anthropological Postdoctoral Fellowship Training in a Medical Examiner Setting: A Four-Year Retrospective Reflection Helen Litavec, PhD*; Devora Gleiber, PhD*; Jason Wiersema, PhD; Miriam Soto Martinez, PhD; Julie Fleischman, PhD

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11:30 am – 1:00 pm	A26	An Investigation Into Academic Inbreeding and Prestige Bias in Forensic Anthropology Nicholas Passalacqua, PhD*; Natalie Clark, BA; Joseph Hefner, PhD
11:30 am – 1:00 pm	A27	Intra-Observer Error in Osteometric Data Maggie Klemm, MA*; Dakota Taylor, MA; William Belcher, APM (FSF Emerging Forensic Scientist Award Poster Presentation)

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11:30 am—1:00 pm	A28	Skeletal Trauma in Pediatric Homicides and Suspicious Deaths: A 6-Year Retrospective Review at the West Tennessee Regional Forensic Center Mackenzie Strobel, BA*; Diana Messer, PhD
11:30 am—1:00 pm	A29	Diagnosing Elder Abuse From Skeletal Trauma: A Bayesian Approach to Distinguish Abuse From Accidental Falls Jacob Harris, PhD*; Laura Fulginiti, PhD; Katelyn Bolhofner, PhD; Jane Buikstra, PhD
11:30 am—1:00 pm	A30	A Comparative Macroscopic Study of Bone Quality and Fracture Frequency in Individuals With and Without Arthroplast Theresa De Cree, MS*; Danny Wescott, PhD
11:30 am—1:00 pm	A31	An Exploratory Analysis of Relationships Between Tibial Diaphyseal Shape and Fracture Outcome Christopher Goden, MA*; Amanda Agnew, PhD; Angela Harden, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am—1:00 pm	A32	Predicting Blade Width From Saw Marks: The Development and Validation of a Novel Equation Meghan Gast, APM*; Alexis VanBaarle, APM; Heather Garvin, PhD
11:30 am—1:00 pm	A33	Skeletal Trauma Analysis in Virtual Modalities: Method Development and Application Elizabeth Paradise, BS*; Christopher Wolfe, PhD
11:30 am—1:00 pm	A34	The Resilience of Cut Mark Characteristics: The Effects of Freezing and Defrosting on Cut Mark Analysis Mariana Brito, MSc*; Giada Steiger, MSc; Matteo Borrini, PhD; James Ohman, PhD
11:30 am—1:00 pm	A35	An Overview of Blunt Force Perimortem Trauma in a Sample of Decedents From the Texas-Mexico Border Chris McMillan, BS*; Victoria Soto, MA; Courtney C. Siegert, PhD; Victoria Swenson, PhD; Chloe McDanel, MA; Abigayle Jose, BA
11:30 am—1:00 pm	A36	Art or Science? Using FADAMA to Assess the “Art” of Synthesizing Skeletal Age-Interval Estimates Sophia Henn, BA*; Phoenix Farnham, BA*; Allysha Winburn, PhD
11:30 am—1:00 pm	A37	Considering the Biological Profile in 2026: Accuracy and Relevance in the Current Age Chelsey Juarez, PhD*; An-Di Yim, PhD; Cris Highes, PhD

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11:30 am—1:00 pm	A38	Evaluating Accuracy and Precision: A Comparison of Transition Analysis to Traditional Age-At-Death Estimation Methods Allyson Simon, MS*; Conner Gayagoy; Dawnie Steadman, PhD; Colleen Cheverko, PhD; Mark Hubbe, PhD
11:30 am—1:00 pm	A39	Testing Non-Adult Age Estimation Methods on a Contemporary Taiwanese Sample Kara Becker*; An-Di Yim, PhD
11:30 am—1:00 pm	A40	Age-Informative Features of the Sacral Auricular Surface Krista Bennett, PhD*;
11:30 am—1:00 pm	A41	Developing a Radiographic Application of the Lamendin Method: A Non-Invasive Dental Aging Technique for Forensic Identification Devin Williams, MA*; Ann Ross, PhD
11:30 am—1:00 pm	A42	A Test of the Accuracy of Skeletal Age Estimation Methods on a Modern South-Central United States Population Alexandra Aaberg, BS*
11:30 am—1:00 pm	A43	A Test of the Cameriere et al. Pulp/Tooth Area Age Estimation Methods in a United States Population M. Biannet Perez, MA*; Kailee Behunin, BA; Alexandra Semma Tamayo, MSc; Laure Spake, PhD; Cai Caccavari, MA; Nolan Robinson, DDS
11:30 am—1:00 pm	A44	Addressing Asymmetry in Phase-Based Age Estimation Methods Allyson Simon, MS*; Conner Gayagoy; Dawnie Steadman, PhD; Colleen Cheverko, PhD; Mark Hubbe, PhD
11:30 am—1:00 pm	A45	A Validation of the CADOES Method on a Taiwanese Sample Madison Glenwinkel, BA*; Elaine Chu, PhD; Shuo-Yen Lin, MCS; Michael Anekson Widjaya, PhD; Hung-Lin Chen, PhD; Chin-Chi Kuo, PhD
11:30 am—1:00 pm	A46	Adult Age Estimation From the Pubic Symphysis and Sternal Rib: A Combined Revision of the Hartnett Methods Valerie Sgheiza, PhD*; Kristen Hartnett-McCann, PhD*
11:30 am—1:00 pm	A47	Rethinking Expectations for Juvenile Growth and Development Based on an Analysis of a Michigan Medical Examinersample Megan Carroll, BS*
11:30 am—1:00 pm	A48	Sex Estimation of the Patella Using Machine Learning in an African American Population Eric Frauenhofer, MS*
11:30 am—1:00 pm	A49	Assessing the Effect of Method Options (Temporal Period, Ancestry, and World Region) on Sex Estimation using MorphoPASSE v1.0 Laura Lovell, BSc*; Christiane Baigent, PhD
11:30 am—1:00 pm	A50	Digital Stature Estimation Using Radiographic Measurements of the Tibia Atlantis Baron, MA*; Meradeth Snow, PhD
11:30 am—1:00 pm	A51	Using Structural Equation Modeling to Investigate the Relationship Between Innominate Metrics and Morphology for Sex Estimation Michael Kenyhercz, PhD; Kate Lesciotto, PhD; Carter Unger, MA* (FSF Emerging Forensic Scientist Award Poster Presentation)

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11:30 am—1:00 pm	A52	Exploring the Relationship Between Heat-Related Fractures, Perimortem Context, and Trauma Mechanism Allison Thomson, BS*; Rylan Tegtmeyer Hawke, PhD; Catherine Jones, PhD
11:30 am—1:00 pm	A53	Assessing the Accuracy of Entrance and Exit Wound Characterization in Long Bone Gunshot Wounds Alexandra Semma Tamayo, MSc*; Tal Simmons, PhD; Laure Spake, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am—1:00 pm	A54	Asymmetry of Human Ribs: Considerations for Trauma Experiments and Interpretations Randi Depp, PhD*
11:30 am—1:00 pm	A55	Bullet Wipe Analysis in Skeletal Gunshot Trauma Cases Joe Adserias-Garriga, PhD*; Flavia Rossell Hayes, BS; Chloe Yingling, BS; Sydney R. Carlson, APM
11:30 am—1:00 pm	A56	Sex-Specific Stature Estimation Using Upper and Lower Limb Anthropometric Measurements in the Modern South Indian Population: A Comparative Analysis of Regression and Mathematical Methods Ambika Prasad Patra, MD, MBBS*; Shashank Singh, MBBS
11:30 am—1:00 pm	A57	Narrowing the Age Range: The Utility of Cranial Suture Methods in Aging Lyndsey Hornagold, MS*; Erin Kimmerle, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am—1:00 pm	A58	An Evaluation of Microscopic Techniques in Cementochronology for Forensic Age-at-Death Estimation Amando Montalvo, MS*; Carina Marques, PhD; Benoit Bertrand, PhD
11:30 am—1:00 pm	A59	Anterior Mandibular Morphometry and Its Application in Juvenile Biological Profiling: A Quantitative Analysis and Possible Implications Jennifer Geisen, MSc*; Satu Valoriani, PhD; Matteo Borrini, PhD

Thursday—Session I

Emerging Approaches to Biological Profile Estimation in Forensic Anthropology

Moderator: Krista Bennett, PhD

Co-Moderator: Christian Crowder, PhD

8:30 am—8:45 am	A60	Investigating the Correlation Between Body Mass and Hip Joint Measurements in a Taiwanese Non-Adult Sample Rachel Riddell, BA*; An-Di Yim, PhD
8:45 am—9:00 am	A61	Stature Estimation Based on Femoral Dimensions: A CT Study on Contemporary Greeks Despoina Flouri, MD*; Maria Arkouli; Elena Kranioti, PhD; Antonios Papadomanolakis, PhD; Efsevia Daskalaki, MSc; Eirini Chasapi, MSc
9:00 am—9:15 am	A62	Tiny Proteins, Big Impact: Rethinking Sex Estimation Through Dental Proteomics Niharika Bhardwaj, MSc*; Shubham Thakur, MSc; Sanya Gaur, PhD
9:15 am—9:30 am	A63	Using Virtual 3D Models of the Pelvis to Explore Biometric Relationships Between Transgender and Cisgender Adults Taylor Flaherty, PhD*; Molly Morano; Jennifer Byrnes, PhD; Carl Streed, MD; Amy Weimer, MD; Mark Litwin, MD

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9:30 am—9:45 am	A64	Testing Posterior Probability Informed Thresholds Using the Innominate, Cranial, and Combined Traits in MorphoPASSE: Best Practice Recommendations Kate Lesciotto, PhD*; Alexandra Klaes, PhD
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9:45 am—10:00 am	BREAK
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Advancing Methods in Age Estimation and Population Affinity in Forensic Anthropology

Moderator: Elaine Chu

Co-Moderator: Cheyenne Collins, MA

10:00 am—10:15 am	A65	A New, Flexible, and Accurate Method for Histological Age Estimation From the Femoral Midshaft Timothy Gocha, PhD*; Shelby Garza, PhD; Amanda Agnew, PhD; Michael Kenyhercz, PhD; Justin Goldstein, PhD; Tessa Herbert, MA
10:15 am—10:30 am	A66	Age-at-Death Estimation Using Micro-CT Analysis of the Hyoid Bone: A Forensic Anthropology Approach Samuele Baldi, MD*; Giovanni Cecchetto, MD, PhD; Gulnaz Javan, PhD; Chiara Giraudo, MD, PhD; Miriam Nomba Belem; Laura Secco, MD
10:30 am—10:45 am	A67	A Micro-CT Evaluation of the Sternoclavicular Joint for Age-At-Death Estimation: A Quantitative Microstructural Analysis Laura Secco, MD*; Pasquale Padalino, MD; Chiara Giraudo, MD, PhD; Guido Viel, MD, PhD; Stefano Palumbi, MD; Giovanni Cecchetto, MD, PhD
10:45 am—11:00 am	A68	Using Information Theory to Better Understand the Relationship Between the Cranial Phenotype and Group Membership Christopher Wolfe, PhD*; Kyra Stull, PhD
11:00 am—11:15 am	A69	Exploring Population Affinity in United States Asian Populations Amelia Konda, MA*; Joseph Hefner, PhD; Kate Spradley, PhD; Matthew Go, PhD
11:15 am—11:30 am	A70	Unrepresented and Misclassified: Evaluating FORDISC 3.1 Using Korean Crania Yangseung Jeong, PhD*; Addison Springer, BA
11:30 am—1:00 pm	BREAK	

Innovations in Computational and AI-Based Approaches to Forensic Anthropology

Moderator: Kyra Stull

Co-Moderator: Anja Petaros

1:00 pm—1:15 pm	A71	Automated Craniofacial Reconstruction Through the Use of Generative AI: The FaceGen Project Oscar Ibáñez, PhD*; M. Alejandra Guatavonza Higuera, MSc; Javier Venema, MSc; Andrea Valsecchi, PhD; Pablo Mesejo, PhD; Guillermo Gómez-Trenado, PhD; Stéphane Lathuilière, PhD
1:15 pm—1:30 pm	A72	WITHDRAWN

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1:30 pm—1:45 pm	A73	Introducing MOSAIC: Methods of Sex, Stature, Affinity, and Age for Identification Through Computational Standardization Joseph Hefner, PhD; Kate Lesciotto, PhD; Michael Kenyhercz, PhD; Heather Edgar, PhD; Kate Spradley, PhD; Alexandra Klaes, PhD*
1:45 pm—2:00 pm	A74	Something Old, Something New, Something Borrowed: Interpretable Deep Learning for Forensic Sex and Age Estimation Željana Bašić, PhD*; Ivana Kružić, PhD; Ivan Jerković, PhD
2:00 pm—2:15 pm	A75	Combining the Micro With the Macro: Age Estimation Using Machine Learning Methods With Histological Variables and Traditional Indicators Sophia Mavroudas, PhD*; Lauren Meckel, PhD; Nicholas Herrmann, PhD; Justin Goldstein, PhD
2:15 pm—2:30 pm	A76	Applying Machine Learning Models in Forensic Anthropology for Sex Estimation From Long Bone Diaphysis Shape Melanie Beasley, PhD*; Talha Mahmud, MS; Fengqing Zhu, APM
2:30 pm—2:45 pm		BREAK

Developments in Forensic Anthropology: Skeletal Analysis, Decision-Making, and Emerging Methods

Moderator: Carolyn Isaac

Co-Moderator: Theresa De Cree, MS

2:45 pm—3:00 pm	A77	An Assessment of Subadult Skeletal Growth and Development Based on a Michigan Medical Examiner Sample Megan Carroll, BS*
3:00 pm—3:15 pm	A78	WITHDRAWN
3:15 pm—3:30 pm	A79	A Foundational Analysis of Practitioner Decision-Making and Interaction With FORDISC Marion Davidson, MSc*; Micayla Spiros, PhD; Sherry Nakhaeizadeh, PhD; Ruth Morgan, DPhil (FSF Emerging Forensic Scientist Award Oral Presentation)
3:30 pm—3:45 pm	A80	Breaking Down Expertise: How Experience Shapes Sex Estimation in Forensic Anthropology Nicole Mantl, MSc*; Sherry Nakhaeizadeh, PhD; Ruth Morgan, DPhil
3:45 pm—4:00 pm	A81	Areas of Interest: Eye-Tracking in Forensic Anthropology Sex Estimation Nicole Mantl, MSc*; Sherry Nakhaeizadeh, PhD; Ruth Morgan, DPhil
4:00 pm—4:15 pm	A82	Combining Intracortical Porosity, Histomorphometric, and Toxicological Data to Describe a Profile of Bone Pathological Tissue Changes Associated With Polysubstance Toxicity: A Canadian Perspective Janna Andronowski, PhD*; Joshua Taylor, MS; Cindy Whitten, PhD; Syed Raza, APM; Shane Randell, MS; Nash Denic, MD, PhD
4:15 pm—4:30 pm	A83	An Examination of How Skeletal Element and Microstructure Alter DNA Amplification in a Novel Environment Shelby Saut, MA*; Ashley Kendell, PhD; Beth Shook, PhD

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Thursday – Session II

Advances in Isotope Analysis for Human Identification

Moderator: Christaine Baigent

Co-Moderator: Janamarie Truesdell, DPhil

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| 8:00 am—8:15 am | A84 | Estimating Multi-Residency From Bulk $\delta^{18}\text{O}$ Enamel Carbonate Sampling
Thomas Delgado, MA*; Kirsten Verostick, PhD; Gabriel Bowen, PhD;
Stephannie Covarrubias, MPH; Chris Stantis, PhD |
| 8:15 am—8:30 am | A85 | Isotope Ratios in Paired Human Bone and Hair Samples for Forensic Applications
Tiffany Fracchia, PhD*; Gregory Berg, PhD; Lesley Chesson, MS |
| 8:30 am—8:45 am | A86 | United States Tooth Enamel Oxygen Isoscapes for Human Identification
Gabriel Bowen, PhD*; Kirsten Verostick, PhD; Gregory Berg, PhD; Lesley Chesson, MS;
Thomas Delgado, MA; Chris Stantis, PhD |
| 8:45 am—9:00 am | A87 | A Dual-Isotope Approach to Enhancing Isotopic Models for the Identification of Human Remains in North Carolina
Nicole Long, PhD*; Ethan Hyland, PhD
(FSF Emerging Forensic Scientist Award Oral Presentation) |
| 9:00 am—9:15 am | | BREAK |

New Approaches for Commingling Resolution

Moderator: Micayla Spiros, PhD

Co-Moderator: Esther, Choo, MA

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| 9:15 am—9:30 am | A88 | Reassociation of Commingled Tibiae and Tali Using Geometric Morphometrics
Nicole Wray, MS*; Stephanie Melillo, PhD |
| 9:30 am—9:45 am | A89 | An Isotope-Aided Multifactorial Segregation of Skeletal Individuals From a Complex Small-Scale Commingled Assemblage
Janet Finlayson, PhD*; Gregory Berg, PhD; Rebecca Taylor, PhD; Lesley Chesson, MS |
| 9:45 am—10:00 am | A90 | Laser-Induced Breakdown Spectroscopy of Submerged Remains: The Implications for Their Re-Association in Commingled Situations
Matthieu Baudalet, PhD*; Kristen Livingston, PhD; Gregory Berg, PhD; Lesley Chesson, MS;
John Lucchi, PhD; John Byrd, PhD |
| 10:00 am—10:15 am | A91 | Man's Best Friend: Multi-Species Commingling Resolution of Highly Fragmented, Canine-Scavenged Remains Using Zooarchaeology by Mass Spectrometry (ZooMS)
Andrea Palmiotto, PhD*; Jerry Overman; Emily Sykora, MA; Anneke Janzen, PhD |
| 10:15 am—10:30 am | | BREAK |

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Medical and Anatomical Markers in Forensic Human Identification

Moderator: Natalie Langley, PhD

Co-Moderator: Catherine Jones, PhD

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| 10:30 am—10:45 am | A92 | Investigating the Utility of Surgical Intervention Products for Personal Identification
Jered Cornelison, PhD*; B Charles, PhD; Christine Pink, PhD |
| 10:45 am—11:00 am | A93 | Personal Identification Through Comparative Medical Radiography: Guiding Training Through Recent Trends
B Charles, PhD*; Jered Cornelison, PhD; Christine Pink, PhD |
| 11:00 am—11:15 am | A94 | Quantifying the Frontal Sinus to Improve Positive Identification Methods
Brailey Moeder, MS*; Stephanie Melillo, PhD |
| 11:15 am—11:30 am | A95 | Anatomical Variants of the Skull: The Potential Use for Identification Purposes
Paolo Palermo, MD*; Sofia Alemanno; Carlo Pietro Campobasso, MD, PhD;
Andrea Palamenghi, PhD; Giulia Caccia, PhD; Daniele Maria Gibelli, MD, PhD
(FSF Emerging Forensic Scientist Award Oral Presentation) |
| 11:30 am—1:00 pm | | BREAK |

Climate Change in Forensic Anthropology

Moderator: Jennifer Byrnes, PhD

Co-Moderator: Colleen Milligan, PhD

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| 1:00 pm—1:15 pm | A96 | Drier Futures, Falling Waters: A Retrospective Analysis of Lake Mead's Forensic Anthropology Cases
Jennifer Byrnes, PhD*; Liam Johnson, MA; Dayanira Lopez, MS; Melanie Rouse, MA;
Nathan Shaller, MD |
| 1:15 pm—1:30 pm | A97 | Wildfire Deployment: Lessons From the California Wildfires
Alison Galloway, PhD*; Chelsey Juarez, PhD; Elayne Pope, PhD |
| 1:30 pm—1:45 pm | A98 | The Impact of Climate Change on the Mortality of Migrants: Forensic Casework in the United States Southwest
Jasmine Hernandez, MS*; Lexi O'Donnell, PhD; Heather Edgar, PhD; Daniel Martinez, PhD;
Laura Nellums, PhD |
| 1:45 pm—2:00 pm | A99 | Climate Change and Mass Disasters: The Role of Forensic Anthropology Outreach in Helping Communities Better Prepare for Mass Disasters
Colleen Milligan, PhD*; Eric Bartelink, PhD; Ashley Kendell, PhD; Shannon Clinkinbeard, MA;
Amber Plemons, PhD |
| 2:00 pm—2:15 pm | | BREAK |
| 2:15 pm—2:30 pm | A100 | Scavengers on the Move: Geospatial Evidence of Changing Vulture Behavior in Forensic Landscapes
Lauren Pharr-Parks, PhD* |
| 2:30 pm—2:45 pm | A101 | Climate Change, Vulnerability, and the 2023 Lahaina Fire Victims' Locations and Demography
Patrick Willey, PhD*; Casey Hegel, MA |
| 2:45 pm—3:00 pm | A102 | The Geography of Forensic Absence: Climate, Natural Disasters, and the Search for Unidentified Persons in Louisiana
Teresa Wilson, PhD*; Sara Finn, MA |
| 3:00 pm—3:15 pm | | DISCUSSION AND Q&A |

ANTHROPOLOGY

Friday

Poster Session

11:30 am – 1:00 pm	A103	A Cold Case Reanalysis Demonstrates the Importance of Forensic Anthropology Training in the Interpretation of Trauma to the Skeleton Ella Uren, BS*; Krista Latham, PhD
11:30 am – 1:00 pm	A104	Identification Patterns in Operation Identification Cases Emma Giacomello, MA*; Michelle Hamilton, PhD; Kate Spradley, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A105	Dignity in Death: Developing Remote Case Management and Burial Protocols for Long-Term Unidentified Decedents Victoria Swenson, PhD*; Molly Kaplan, PhD; Daniela Martinez Herrera, BA; Abigayle Jose, BA; Ashley Fields, BS; Hannah Stottlemyre, MA (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A106	WITHDRAWN
11:30 am – 1:00 pm	A107	Close-Interval Metal Detection of Wreckage at Crash Sites of Large Aircraft to Identify Priority Areas for the Recovery of Human Remains Lillian Antonelli, MA*; David Bavencoff, MS; Andrea Palmiotto, PhD; Lexi Dengah, BA; Francesca Fiorello; Axel Valdez Ruiz
11:30 am – 1:00 pm	A108	An Evaluation of the Use of Alternate Light Sources in the Search for Burned Skeletal Remains Jessica Lucia, MA*; James Russell, BFA; Tal Simmons, PhD; Stephen Stockman, MPA; Jenise Swall, PhD
11:30 am – 1:00 pm	A109	Ground Penetrating Radars in Forensic Anthropology: Evaluating Efficacy Through Controlled Systematic Surveys Dawson Lamb, MA*; Anthony Lanfranchi, MS* (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A110	Anthropological Approaches to Identification in a Historic World War II Aircraft Loss: The Crew of <i>Little Joe</i> Catherine Jones, PhD*; Katie East, PhD; Carrie Brown, PhD
11:30 am – 1:00 pm	A111	From Chaos to Connection: Reassociating Arm Bones in Commingled Contexts Anna La Valley, MSc*; Erica Baer, PhD; Xenia Paula Kyriakou, PhD
11:30 am – 1:00 pm	A112	Occipito–Atlas Reassociation in Commingled Skeletal Remains Anna La Valley, MSc*; Stavri Karasiali, MSc*; Erica Baer, PhD; Xenia Paula Kyriakou, PhD
11:30 am – 1:00 pm	A113	Examining Contributing Factors to Natural Human Mummification at FOREST in Cullowhee, North Carolina: A Continued Investigation Alex Vacca*; Kaleigh Best, PhD; Rebecca George, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A114	Terrestrial Scavenger Activity on Human Remains at FROST Emma Gariepy, BSc*; Hayden McKee-Zech, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)

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11:30 am – 1:00 pm	A115	The Importance of Scene Context in Anthropological Time-Since-Death Estimation: “Back to the Basics” of PMI Ariana Strasheim, MA*; Allysha Winburn, PhD*; Taylor Walkup, MA*; Emily Romdemne, MA*
11:30 am – 1:00 pm	A116	The Effects of Obesity on Decomposition by Measuring Mass Loss Percentage and Postmortem Interval Estimation Paige Jackson, MA*; Danny Wescott, PhD*
11:30 am – 1:00 pm	A117	A Preliminary Study of Human Decomposition in Aquatic Environments in Greece Christina Karydi, PhD*; Giorgos Kyros, MSc; Konstantinos Moraitis, PhD*; Kostas Lagouvardos, PhD
11:30 am – 1:00 pm	A118	A Test of Thermal Damage Recording Systems With Advancing Decomposition Mariah Moe, PhD*; Sophia Mavroudas, PhD; Danny Wescott, PhD; Hailey Collord-Stalder, MA
11:30 am – 1:00 pm	A119	The Accuracy of PMI Predictions in GeoFOR Using Retrospective Decomposition Data Victoria Eacott, BA*; Sydney Munkus, BS; Tempest Mellendorf, MS (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A120	Adipocere Formation in a Subtropical Climate and the Most Effective Method to Process Adipocere on Skeletal Remains Amanda Schultz, BA*; Erin Kimmerle, PhD
11:30 am – 1:00 pm	A121	The Decomposition of Buried Human Remains in a Semi-Arid Environment Alexander Smith, BA*
11:30 am – 1:00 pm	A122	Dirt, Decay, and Dentition: Taphonomic Alterations to Teeth From Buried Skeletal Remains in Southwest Florida Emmalee Bullington, BS*; Micki Besse, MS; Heather Walsh-Haney, PhD; Savanna Agilar, MS; Jeffery Kleeger, PhD; Shawn Keller, PhD
11:30 am – 1:00 pm	A123	Evaluating the Total Body Score (TBS) Method to Assess Performance of PMI Estimates in Forensic Casework Katherine Weisensee, PhD*; Madeline Atwell, PhD; Hudson Smith, PhD
11:30 am – 1:00 pm	A124	Investigating the Applicability of Different Postmortem Interval Estimation Methods in the Mid-Atlantic Region Mason Kalin*; Kennedie Lyles, BS*; An-Di Yim, PhD; Emily Rancourt, MSFS; Molly Kilcarr, BS; Chloe Cummings, BS
11:30 am – 1:00 pm	A125	Saturated (Equatorial) Savanna Soils: The Efficacy of Anaerobic Postmortem Interval Estimations in Southwest Florida Savanna Agilar, MS*; Micki Besse, MS; Heather Walsh-Haney, PhD (FSF Emerging Forensic Scientist Award Poster Presentation)
11:30 am – 1:00 pm	A126	The Need for Additional Environmental Diversity in Human Decomposition Research Facility Locations Rachael McCrary, MS*; Nicholas Passalacqua, PhD
11:30 am – 1:00 pm	A127	A Camera Trap Analysis of Songbird Scavenging Behavior at the Anthropology Research Facility (ARF) - University of Tennessee, Knoxville (UTK) Owen VanAntwerpen, BS*; Hayden McKee-Zech, PhD; Cory Elowe, PhD
11:30 am – 1:00 pm	A128	Assessing the Influences of Burial Environment and Season of Interment on Fetal Pig (<i>Sus Scrofa</i>) Decomposition in Western Pennsylvania Dakota Dickerson, MA*; Alexandra Schmidt, BA; Andrea Palmiotto, PhD

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11:30 am – 1:00 pm	A129	Investigating the Effectiveness of 3D Documentation of Taphonomic Changes Emily Powell*; Chloe Cummings, BS; An-Di Yim, PhD; Emily Rancourt, MSFS; Marlowe Vaughn-Bueler, MS
11:30 am – 1:00 pm	A130	Soil Types and Components That Influence Toolmark Retention for Forensic Archaeological Cases Josephine Reid, BSc*; Roland Wessling, MSc; David Errickson, PhD
11:30 am – 1:00 pm	A131	Utilizing pXRF to Resolve Unusual Discoloration in Cremains: A Case Study Samantha McCrane, PhD*; Phoebe Stubblefield, PhD
11:30 am – 1:00 pm	A132	The Persistence of Ultraviolet Bone Autofluorescence Following Submersion in a Corrosive Acidic Solution Kendall Gehring, MA
11:30 am – 1:00 pm	A133	Scattered Man: The Curious Case of Captain Henry Goodsell Anna Delaney, DCrim*; Thomas Crist, PhD; Gina Hart, MA
11:30 am – 1:00 pm	A134	Exploring the Influence of Loading Direction on Fracture Characteristics in Human Tibiae Amanda Agnew, PhD*; Christopher Goden, MA; Kyra Stull, PhD; Angela Harden, PhD; Julia McGinley, BS
11:30 am – 1:00 pm	A135	Incomplete Kerf Morphology and Saw Class Characteristics: Comparative Statistical Insights From Fleshed and Defleshed Experimental Dismemberments Stephanie Cole, PhD*; Heather Garvin, PhD
11:30 am – 1:00 pm	A136	The Resilience of Cut Mark Characteristics: A New Experimental Study on the Effect of Fire on Fleshed Remains Mariah Morris, MSc*; Giada Steiger, MSc; Matteo Borrini, PhD
11:30 am – 1:00 pm	A137	Investigating the Utility of Micro-CT for Human and Non-Human Bone Compared to Traditional Histology Rose Raymer*; Laura Cirillo, PhD; Savannah McAdow, MA
11:30 am – 1:00 pm	A138	Modeling Sharp Force Trauma: A Bayesian Approach to Differentiate Bone Surface Modifications From Straight and Serrated Blades Alexander Cortes, BS; Kymani Bledsoe; Jacob Harris, PhD*; William Nyce
11:30 am – 1:00 pm	A177	A Preliminary Review of Long-Term Unidentified Decedents at the West Tennessee Regional Forensic Center Lauren Santoro, BS*; Danielle Harrell, DO; Diana Messer, PhD

Friday – Session I

Bone Trauma: Advances in Sharp Force, Projectile, Blast, and Thermal Analysis

Moderator: Sara Zapico, PhD

Co-Moderator: Lillian S. Antonelli, MA

8:30 am—8:45 am	A139	Chopping/Hacking Sharp Force Trauma on Bone: A Forensic Analysis of Cut Marks Using Macroscopic and Microscopic Techniques Kelly McGehee, MA*; John Schultz, PhD
8:45 am—9:00 am	A140	Standardizing and Re-Evaluating Observer Agreement in Kerf Traits Commonly Used to Predict Saw Class Characteristics Ashley Maxwell, PhD*; Alexandra Kiales, PhD

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9:00 am—9:15 am	A141	Crack Propagation in Projectile-Impacted Human Long Bones Angi Christensen, PhD; Mariyam Isa, PhD*; Brian Spatola, MA; Timothy Gocha, PhD
9:15 am—9:30 am	A142	Classifying Projectile Entrances and Exits in Flat Bone: Insights and Challenges With Machine Learning Mariyam Isa, PhD; Delaney Edwards, MA*
9:30 am—9:45 am	A143	Primary Skeletal Blast Trauma: Examining the Effects of the Blast Wave on Skeletal Trauma Using Postmortem Human Subjects and Non-Human Proxie Petra Banks, PhD*
9:45 am—10:00 am	A144	Evaluating Dimensional Changes in Long Bones Exposed to Fire Joe Adserias-Garriga, PhD*; Laia Nogue, MS; Luis Cabo, MS; Marta Fernandez-Viejo, MS; Laura Rodriguez, PhD; Rebecca Garcia-Gonzalez, PhD
10:00 am—10:15 am		BREAK

New Frontiers in Skeletal Trauma Analysis

Moderator: Benjamin Figura, PhD

Co-Moderator: Amy Spies, PhD

10:15 am—10:30 am	A145	A Preliminary Comparative Assessment of Digital Imaging Modalities for Fractographic Analysis Delaney Edwards, MA*; Angela Harden, PhD; Mary Cole, PhD
10:30 am—10:45 am	A146	A Comparison of Postmortem Radiograph Modalities for the Detection of Infant Skeletal Trauma Miriam Soto Martinez, PhD*; Jason Wiersema, PhD; Julie Fleischman, PhD; Si Gao, MS; Michal Pierce, MS
10:45 am—11:00 am	A147	A Micro-CT Analysis of False Start Marks on Fire-Exposed Human Bones Laura Secco, MD*; Ludovico Fava, MD; Chiara Giraudo, MD, PhD; Guido Viel, MD, PhD; Stefano Palumbi, MD; Giovanni Cecchetto, MD, PhD
11:00 am—11:15 am	A148	Opening the Black Box: Visualizing AI Decisions in Forensic Trauma Analysis Giada Steiger, MSc*; Matteo Borrini, PhD
11:15 am—11:30 am	A149	Harnessing Machine Learning to Evaluate Microscopic Characteristics of Skeletal Trauma Keivan Nalaie, PhD*; Jessica Skinner, PhD; Aurely Sanchez Carreon, BS; Loukham Shyamsunder, PhD; Subramaniam Rajan, PhD; Natalie Langley, PhD*
11:30 am—1:00 pm		BREAK

From Fundamentals to Formulation: Developing Interdisciplinary Approaches for Taphonomy Research

Moderator: Angela Dautartas, PhD

Co-Moderator: Derek Boyd, PhD

1:00 pm—1:15 pm	A150	Developing Evidence-Based Approaches for Taphonomic Histories: A Call for Communication Across the Disciplinary Divide Derek Boyd, PhD; Angela Dautartas, PhD*; Hayden McKee-Zech, PhD; Erin Patrick, MSc; Kelly Sauerwein, PhD
1:15 pm—1:30 pm	A151	A Foundational Exploration of the Scavenger Guild in Baltimore, Maryland Marion Davidson, MSc* (FSF Emerging Forensic Scientist Award Oral Presentation)

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1:30 pm—1:45 pm	A152	The Detection of Decomposition in Soil With Portable X-Ray Fluorescence Rhys Williams, PhD*
1:45 pm—2:00 pm	A153	Taphonomic Analyses of Hair: From Postmortem Root Banding to Environmental Degradation Sandra Koch, PhD*
2:00 pm—2:15 pm		BREAK
2:15 pm—2:30 pm	A154	Application of geoFOR at the Anthropology Research Facility (ARF) Tempest Mellendorf, MS*; Devin Adcox, MA; Sydney Munkus, BS; Victoria Eacott, BA (FSF Emerging Forensic Scientist Award Oral Presentation)

Forensic Recovery and Reconstruction: Technology, Environment, and Taphonomy

Moderator: Ginesse Listi, PhD

Co-Moderator: Ella Uren, BX

2:30 pm—3:00 pm	A155	A Web-Based Application for Predicting the Fluvial Transport of Human Remains in the Sacramento River, California: Case Applications for Constraining Search Parameters for River Victims Jazmin Borrayo, BA*; Eric Bartelink, PhD; Colleen Milligan, PhD
3:00 pm—3:15 pm	A156	From Scene to Screen: 3D Data Collection Options for Forensics Jessica Cronin, MS*; Stephanie Melillo, PhD
3:15 pm—3:30 pm	A157	Virtual Bonescape: Integrating Two Recovery Methods, Virtual Re-Association of Fragmented Remains and Scene Reconstruction, in a Disaster Victim Identification Context Lise Malfroy Camine, DDS*; Silke Grabherr, PhD; Negahnaz Moghaddam, PhD; Vincent Varlet, PhD
3:30 pm—3:45 pm		BREAK
3:45 pm—4:00 pm	A158	The Impact of Decomposition Stage, Hypoxia, and Enclosure in a Class C Motorhome on the Morphological Trajectory of Fire-Exposed Human Remains Christiane Baigent, PhD*
4:00 pm—4:15 pm	A159	Gull (<i>Laridae</i>) Scavenging and Dispersal of Pig (<i>Sus Scrofa</i>) Remains on Appledore Island, Maine Austin Millwood, BA, BS*; James Pokines, PhD
4:15 pm—4:30 pm	A160	Patterns of Vulture Scavenging in West Central Florida Tuesday Frasier, MS*; Erin Kimmerle, PhD Erin Waxenbaum, PhD*; Katharine Pope, MA

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Friday – Session II

Standards, Best Practices, and Professional Well-Being in Forensic Anthropology

Moderator: Alice Gooding, PhD

Co-Moderator: Thomas Delgado, MA

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| 8:30 am—8:45 am | A161 | An Assessment of Standard Operating Procedures for Forensic Anthropology at Accredited United States Laboratories
Marion Davidson, MSc*; Allysha Winburn, PhD; Taylor Flaherty, PhD
(FSF Emerging Forensic Scientist Award Oral Presentation) |
| 8:45 am—9:00 am | A162 | Description, Interpretation, and Overinterpretation: Ensuring a Scientific Foundation for Forensic Skeletal Trauma Analysis
Donna Boyd, PhD* |
| 9:00 am—9:15 am | A163 | Standards Development in Forensic Anthropology: Progress and Updates From the OSAC and ASB
Eric Bartelink, PhD*; Julie Fleischman, PhD |
| 9:15 am—9:30 am | A164 | Normalizing Discussions of Mental Health in Forensic Anthropology
Erin Waxenbaum, PhD; Katharine Pope, MA* |
| 9:30 am—9:45 am | | BREAK |

Balancing Justice and Responsibility: Contemporary Ethical Challenges in Forensics

Moderator: Amanda Williams, PhD

Co-Moderator: Melinda Carter, PhD

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| 9:45 am—10:00 am | A165 | An Examination of the Medicolegal Processes Relating to Native American Repatriation
Arielle Reich, MA*; Cris Hughes, PhD; Marynia Kolak, PhD; Catherine Discenza, BS;
Krystiana Krupa, MSL; Jenny Davis, PhD
(FSF Emerging Forensic Scientist Award Oral Presentation) |
| 10:00 am—10:15 am | A166 | Assessing Forensic Significance and Ethical First Steps at the West Tennessee Regional Forensic Center
Christine Bailey, MA; Diana Messer, PhD; Devin Adcox, MA*
(FSF Emerging Forensic Scientist Award Oral Presentation) |
| 10:15 am—10:30 am | A167 | Ethics and Preventive Forensics in the Face of Violent Deaths: WWCD (What Would Clyde Do)?
Derek Congram, PhD*; Nicholas Passalacqua, PhD; Marin Pilloud, PhD;
Hugo Rodriguez-Almada, MD; Gina Hart, MA; Mark Skinner, PhD |
| 10:30 am—10:45 am | A168 | Language at the Border: Changing Our Language Changes Our Perspective
Makenna Mizell, BA*; Chastidy Gilbert, BA; Krista Latham, PhD; Amandine Eriksen, PhD;
Lillian Bucher, BS; Frankey Leggio, MS
(FSF Emerging Forensic Scientist Award Oral Presentation) |
| 10:45 am—11:00 am | A169 | Preventing a Repeat of the Past: Ethical Considerations in Data Collection and Use in the Age of Artificial Intelligence and Machine Learning
Ashley Smith, MSc*; Eman Faisal, MSc |
| 11:00 am—11:15 am | A170 | The Impact of Collection-Specific Sample Bias on Aggregate Cranial Morphology in United States-Based Documented Skeletal Collections
Rhian Dunn, PhD*; Joseph Hefner, PhD |

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11:15 am—11:30 am **A171** **Defining Effective Investigation: A Fundamental Requirement for the Examination of Mass Graves and Other Atrocity Crime Scenes**
Ian Hanson, PhD*; Melanie Klinkner, PhD; Diego Nunez, MSc; Ellen Donovan, MA

11:30 am—1:00 pm **BREAK**

From Numbers to Names: Forensic Perspectives on Missing and Unidentified Individuals

Moderator: Brittany Walker, PhD

Co-Moderator: Nikki Long, PhD

1:00 pm—1:15 pm **A172** **Who Are the Nation's Unidentified? Assessing Demographics and Case Characteristics of Long-Term Unidentified Persons in the United States**
Molly Kaplan, PhD*
(FSF Emerging Forensic Scientist Award Oral Presentation)

1:15 pm—1:30 pm **A173** **Digging Up Doe: An In-Depth Study of Exhumations in Cold Case Investigations**
Erin Kimmerle, PhD*; Kelsee Hentschel-Fey, MA; Amanda Schultz, BA; Lauren Nichols, MA

1:30 pm—1:45 pm **A174** **Operation Identification: Ethnographic Stories Beyond Turning Numbers Into Names**
Victoria Soto, MA*; Ivanna Robledo, MA; Daniela Martinez Herrera, BA
(FSF Emerging Forensic Scientist Award Oral Presentation)

1:45 pm—2:00 pm **A175** **The Missing and Unidentified at La Frontera: Communication Networks and the Forensic Anthropologist's Role at the México-United States Border**
Aliya Godoy, MA*

2:00 pm—2:15 pm **A176** **Understanding Missingness: A Case Study Utilizing the Mississippi Repository for Missing and Unidentified Persons**
Sarajane Smith-Escudero, MA*; Rachel Coppock, BA; Jesse Goliath, PhD
(FSF Emerging Forensic Scientist Award Oral Presentation)

A177 **Moved to a Friday poster presentation**

2:15 pm—2:45 pm **BREAK**

Forensic Recovery and Identification Across Disasters, Conflicts, and Migration Contexts

Moderator: Heather Walsh-Haney, PhD

Co-Moderator: Amanda Walker, BS

2:45 pm—3:00 pm **A178** **A Look at the Disaster Response to Hurricane Katrina: How Far Have We Come in 20 Years?**
Gina Hart, MA*; Julia Powers, MA; Ryan Siedemann, PhD

3:00 pm—3:15 pm **A179** **When Men Are Prey: Melee Skeletal Trauma Patterns From the 1921 Tulsa Graves Investigation**
Phoebe Stubblefield, PhD*; Angela Berg, MA; Heather Walsh-Haney, PhD; Arion Mayes, PhD; Sheridan Lea, MSc

3:15 pm—3:30 pm **A180** **A Preliminary Examination of the Evidentiary Value of Trauma to Individual Skeletal Elements in Distinguishing Between Circumstances of Death**
Maria Nektaria Antoniou, LLM, MS*; Nicholas Marquez-Grant, PhD; Rick Schulting, PhD

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3:30 pm—3:45 pm	A181	Necrosilences of the Central Mediterranean: A Preliminary Exploration of Differential Treatment Within the Medicolegal Systems of Tunisia & Malta in Their Responses to Missing & Deceased Migrant Cases Skylar Joseph, MS*
3:45 pm—4:00 pm	A182	WITHDRAWN
4:00 pm—4:15 pm	A183	The Forensic Identification of Semi-Skeletonized Remains in Ukraine: A Case Study Laura Donato*; Marta Garazdiuk, MD; Douglas H. Ubelaker, PhD; Michele Treglia, MD; Luigi Tonino Marsella, MD; Mahmoud Mohammed Zalat, PhD
4:15 pm—4:30 pm	A184	Reducing Identification Timelines in South Texas: Assessing the Impact of Postmortem Fingerprinting on Medicolegal Bottlenecks Mackenzie Murray, BS*; Molly Kaplan, PhD; Kate Spradley, PhD; Courtney Siegert, PhD; Victoria Swenson, PhD; Valerie Arroyo, BA