

ODONTOLOGY

Wednesday

Poster Session

- 11:30 am—1:00 pm **H1** **3D Palatal Rugae Superimposition for Human Identification**
Andrea Pase, DDS; Zecca Piero Antonio, DDS; Emanuele Paoletto; Mario Torreggianti, MSc;
Marco Brady Bucci, DDS; Emilio Nuzzolese, PhD*
- 11:30 am—1:00 pm **H2** **The Cayor Atlas: A Black Senegalese Dental Atlas for Permanent Tooth Formation**
Sankoung Soumboundou, MD, PhD*; Christophe Bou, PhD; Mamadou Lamine Ndiaye, PhD;
Papa Abdou Lecor, PhD; Babacar Toure, PhD
- 11:30 am—1:00 pm **H3** **The Effects of Orthodontic Treatments on Palatoscopy**
Mehmet Ali Kılıçarslan, PhD*; Ersungül Er, PhD; Merve Berika Kadioğlu, PhD; Kaan Orhan, PhD
- 11:30 am—1:00 pm **H4** **The Tooth, the Whole Tooth, and Nothing But the Tooth: Forensic Odontology in Car Fire Victim Identification**
Howard Cooper, DDS*

Thursday—Session I

From Case Resolution to Future Standards

Moderator: Aaron Jolivet

Co-Moderator: Mariko McCall, DDS

- 8:30 am—9:00 am **H5** **The Maura Murray Cold Case: Revisiting Dental Charting for New Leads**
Grace Chung, DDS*
- 9:00 am—9:20 am **H6** **The 2007 Murder Case of Riley Ann Sawyers: A Forensic Triumph in Identification**
Jeanne Geer, DDS*
- 9:20 am—9:40 am **H7** **Bitemarks—Vital Reaction, Permanent Injury, and Position of Biter**
Richard Souviron, DDS*
- 9:40 am—9:50 am **BREAK**
- 9:50 am—11:00 am **H8** **Shaping the Future of Forensic Odontology Through Standardization**
Kenneth Aschheim, DDS*; Cristiana Palmela Pereira, PhD*; Kathleen Kasper, DDS*;
Lindsay Spears, DDS*; Raymond Miller, DDS*; Phyllis Ho, DDS*; Robin Ainsworth, DDS*
Richard Fixott, DDS*

Modernizing Methods in Forensic Odontology

Moderator: Aaron Jolivet

Co-Moderator: Mariko McCall, DDS

- 11:00 am—11:30 am **H9** **Revisiting the Demirjian Legacy: A Comparative Analysis of Original and ISO Tooth Development Staging Using the Historic Demirjian Radiographic Collection**
Wei Wu, DMD*; Corinne D'Anjou, DMD*; Derek Draft, DDS*; Normand Bach, MSc;
Pierre Rompré, MSc; Katrina Kontaxis, DMD
- 11:30 am—1:00 pm **BREAK**

ODONTOLOGY

The Spectrum of Age Assessment

Moderator: Sarah Canty, DMD

Co-Moderator: Megan Lenahan, DDS

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| 1:00 pm—1:20 pm | H10 | Proteomics Profiling of Ajnala Teeth for Estimating Their Sex and Age: A Forensic Odontological Study
Jagmahender Singh Sehrawat, PhD* |
| 1:20 pm—1:40 pm | H11 | Integrated Forensic Age Estimation in Subadults Through a Machine Learning Combination of Dental and Skeletal Data
Ilenia Bianchi, PhD*; Giorgio Oliva, DMD; Giulia Vitale, DMD; Francesco Pradella, DMD; Martina Focardi, MD; Vilma Pinchi, PhD |
| 1:40 pm—2:25 pm | H12 | Dental Age Assessment for Victim Stratification in Closed Population, Multiple-Fatality Incidents
John Nase, DDS* |
| 2:25 pm—2:45 pm | H13 | Artificial Intelligence Methods for Estimating the Age of Unaccompanied Minors
Javier Venema, MSc; Stefano De Luca, PhD; Pablo Mesejo, PhD; Oscar Ibáñez, PhD; David Navega, PhD* |
| 2:45 pm—3:00 pm | | BREAK |

Technological and Historical Perspectives in Forensic Dentistry

Moderator: Sarah Canty, DMD

Co-Moderator: Megan Lenahan, DDS

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| 3:00 pm—3:20 pm | H14 | Victim Identification of a Mass Fatality Event
Howard Cooper, DDS* |
| 3:20 pm—3:40 pm | H15 | Paul Revere: Silversmith, Spy, Dentist, Coroner
Denise Murmann, DDS* |
| 3:40 pm—4:00 pm | H16 | Forensic Odontology in Battlefield Archaeology: An Analysis of Revolutionary War Remains From Red Bank Battlefield in New Jersey
Stuart Alexander, DMD*; Anna Delaney, DCrim |
| 4:00 pm—4:30 pm | H17 | An Illinois Missing Person Cold Case—A Resolve After 42 Years: The Case of Karen Schepers
David Wold, DDS* |

Thursday—Session II

The Residue of Case Work: Psychological and Toxicological Traces in Forensic Odontology

Moderator: Victoria McGowen, DMD

Co-Moderator: Matthew Merfeld, DDS

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| 8:30 am—9:45 am | H18 | The Unseen Burden: When Evidence Leaves Its Mark on the Forensic Odontologist
Kathryn Seigfried-Spellar, PhD*; John Kenney, DDS*; Raymond Miller, DDS*; Emilio Nuzzolese, PhD* |
| 9:45 am—10:05 am | H19 | Unveiling Drug Traces in Teeth: A Forensic Study on Methadone, Cocaine, and THC Orally Assumed
Ilenia Bianchi, PhD*; Emma Croce, MSc; Alexandra Dimitrova, MSc; Martina Focardi, MD; Fabio Vaiano, PhD; Vilma Pinchi, PhD |

ODONTOLOGY

10:05 am—10:30 am

BREAK

Forensic Odontology: A Spectrum

Moderator: Victoria McGowen, DMD

Co-Moderator: Matthew Merfeld, DDS

10:30 am—10:50 am

H20

DAE QuickSheets—The Next Generation

Derek Draft, DDS*

10:50 am—11:10 am

H21

The Identification of German Nurses Captured by the Viet Cong

Richard Fixott, DDS*

11:10 am—11:30 am

H22

Canine Injuries: A Forensic Analysis of Bitemarks in a Fatal Dog Attack

James Goodrich, FFOMP*

11:30 am—1:00 pm

BREAK

Beyond the Legacy: Modern Methodology In Forensic Odontology

Moderator: Adrian Avram, DDS

Co-Moderator: Jeremy Thompson, DDS

1:00 pm—1:45 pm

H23

Dental Autopsy Incision and Resection Techniques: A Review

John Nase, DDS*

1:45 pm—2:05 pm

H24

Advancements in Forensic Odontology: Anatomage Table and Metaverse Innovations

Corrado Cali', PhD; Claudia Viteritti, MD*; Emilio Nuzzolese, PhD*

2:05 pm—2:25 pm

H25

Artificial Intelligence: Elevating Forensic Odontology Beyond Traditional Boundaries

Kenneth Aschheim, DDS*; Guy Kaplan, MSc; Ben Cohen, BSc

2:25 pm—2:45 pm

H26

Machine Learning Models for Sex Estimation From Morphological Characteristics of Teeth

Damini Siwan, MSc*; Arun Garg, MDS; Vishal Sharma, PhD; Kewal Krishan, PhD

Friday

Quantitative Methods In Bitemark and Dental Identification

Moderator: Jeremy Thompson, DDS

Co-Moderator: Adrian Avram, DDS

8:30 am—9:00 am

H27

Forensic Odontology Identification: Cases That “Left Their Mark”

Walter Zoller, DMD*

9:00 am—9:20 am

H28

A Tri-Dimensional Pattern Analysis of Foodstuff Bite Impressions A Quantitative Method of Comparison

Enrica Macorano, MD*; Valeria Santoro, MD, PhD; Mariagrazia Guerra, PhD; Luigi Maria Galantucci; Francesco Introna, MD

9:20 am—9:40 am

H29

Shark Tales: A Fatal Animal Bite Case Presentation

James Goodrich, FFOMP*

9:40 am—10:00 am

H30

A Scientific Mathematical Model to Define the Class Characteristics of the Human Anterior Maxilla

Kenneth Aschheim, DDS*; Botond Simon, PhD; János Vág, DSc

*Presenting Author

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10:00 am—10:20 am **H31** **Identification in Multiple Comparison Scenarios Guided by Automatic 3D-2D Dental Image Superimposition**
Oscar Ibáñez, PhD*; Antonio D. Villegas, MSc; Guillermo Ramírez-García, MASc;
Oscar Cerdón, PhD; Daniel Pérez-Mongiovi, PhD; Teresa Pinho, PhD

10:20 am—10:30 am **BREAK**

Advances in Comparative Analysis for Forensic Odontology

Moderator: Matthew Merfeld, DDS

Co-Moderator: Sarah Canty, DMD

10:30 am—11:00 am **H32** **Digital Mandibles: The Role of 3D Printing in Personalized Jaw Reconstruction**
Shalini Gupta, PhD*

11:00 am—11:20 am **H33** **The Identification of Bodies Using the Automated Search Notice in Forensic Odontology in France**
Gwenola Drogou Saout, DDS*

11:20 am—1:00 pm **BREAK**

Forensic Odontology Metrology

Moderator: Aaron Jolivet

Co-Moderator: Megan Lenahan, DDS

1:00 pm—1:20 pm **H34** **When Time Is of the Essence: Establishing DVI Facilities During Warfare**
Esi Sharon, DMD*; Tzipi Kahana, PhD

1:20 pm—1:40 pm **H35** **How a CT Screen Capture Assisted in the Identification of an Individual**
Mark Porco, DDS*

1:40 pm—2:00 pm **H36** **An Equal Probability Calculation of Correct Dental Identification**
James Fancher, DDS, MA, PhD*

2:00 pm—2:20 pm **H37** **Unlocking Identity Through Proteomics: A Review of Protein Biomarkers in Forensic Science**
Shria Sharma, MSc*; Shubham Thakur, MSc; Sanya Gaur, PhD