Thursday

P	o	s	t	e	r	S

11:30 am - 1:00 pm	D1	A Study on the Application of a Thermal Mannequin for Estimating a Hypothermia Environment Chan-Seong Park, PhD*
11:30 am - 1:00 pm	D2	Active Air Sampling and Quantitation of Methyl Methacrylate During Controlled Pyrolysis of Poly(Methyl Methacrylate) Kaylee Morton, MSFS*; Mahsa Lotfi Marchoubeh, PhD
11:30 am - 1:00 pm	D3	An Examination and Analysis of False Negative in Presumptive Blood Testing Methods on Leather Sarahy Magdaleno, MSFS*

Thursday – Session I

Sample Analysis and Forensic Detection

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8:00 am –	8:20 am	D4	Failure Analysis of Ink Samples Using Multiple Modes of Pyrolysis-Gas Chromatography/Mass Spectrometry (Py-GC/MS) Athena Nguyen, BS*
8:20 am –	8:50 am	D5	Light It Up! Photoluminescent Lead Detection for Forensic Investigations Kendra Adelberg, MS*; Arno van der Weijden, PhD; Lukas Helmbrecht, PhD; Arian van Asten, PhD; Wim Noorduin, PhD
8:50 am –	9:20 am	D6	Seeing the Invisible: Flow Visualization and Scientific Imaging Techniques to Support Safety, Security, and Forensics Matthew Staymates, MS*; Edward Sisco, PhD
9:20 am –	9:40 am	D7	Odorant Depletion in Propane Containers Tim Dunn, MS*
9:40 am –	9:55 am		BREAK
9:55 am –	10:15 am	D8	Synthetic Routes for the Production of Xylazine: An Analysis of Clandestine Viability Calvin Keller, PhD*
10:15 am –	10:45 am	D9	Forensic Exams of Public Works Contracts: Ethical and Just Methodologies in Pavement Works Investigation Victor Zoch, BEng*; Alan Lopes, PhD; Bruno Lima, MS
10:45 am –	11:15 am	D10	An Economic Valuation of Environmental Damages Caused by Illegal Artisanal Mining in the Brazilian Yanomami Indigenous Territory David Pavanelli, PhD*; Uilian Mello, MS; Rai Cunha, BS; Rommel Pereira, BA; Erich Lima; Mauro Magliano, PhD
11:15 am –	1:00 pm		BREAK

*Presenting Author

Collision/Forensic Anal	ysis	
1:00 pm – 1:30 pm	D12	A Race Car Accident Analysis Berislav Barisic-Jaman, MEng*
1:30 pm – 1:50 pm	D13	A Forensic Analysis of Unintended Vehicle Rollaway Incidents Chris Clarke, BSME*; Brian Herbst, BSME*
1:50 pm – 2:10 pm	D14	The Role of Early Assumptions in Driver Determination for an Unwitnessed Motor Vehicle Crash David Porta, PhD*
2:10 pm – 2:25 pm		BREAK
2:25 pm – 2:55 pm	D15	Roof System Failure: Causes and Misconceptions Darren Franck, MSME*; Harold Franck, MSEE
2:55 pm – 3:40 pm	D16	The Analysis of Vehicle Dynamics From Monitor Playback Recordings Michael Callahan, BSME*; Sean Snyder, BS*
3:40 pm – 4:10 pm	D17	Forensic Mapping With a Real-Time Kinematics-Equipped Drone (UAS/UAV), With or Without Ground Control? David Sersen, BSEE*

Thursday – Session II

Multidisciplinary Session: Engineering & Applied Sciences and Forensic Nursing Science

1:00 pm – 1:30 pm	D18	Accidental or Deliberate? Can a Safety Razor Inflict Injuries to a Baby in a Bathtub? Sarah Hainsworth, PhD*
1:30 pm – 2:00 pm	E8	Alternate Light Sources in Subclinical Bruising: A Systematic Review Maureen Canellas, MD*; Jennifer Edwards, MD
2:00 pm – 2:30 pm	D19	An Analysis of Injuries and Injuury Mechanisms of Male PMHS in High-Speed, Rear-Facing Frontal Impact Scenarios John Bolte, IV, PhD*; Amanda Agnew, PhD; Yun-Seok Kang, PhD
2:30 pm – 2:45 pm		BREAK
2:45 pm – 3:15 pm	E9	Revolutionizing Forensic Nursing Education: The Impact of Virtual Reality, Artificial Intelligence, and Performance Data Analytics Jamie Ferrell, MBA, BSN, RN*; Sally Henin, MD
3:15 pm – 3:45 pm	D20	Empirical Testing of a Trip-Fall Incident Darren Franck, MSME*; Harold Franck, MSEE
3:45 pm – 4:15 pm	D21	A Windshield Fracture Incident: Injury-Producing Event or Just Cracked Glass? Michelle Hoffman, MS*; Kurt Weiss, MS

*Presenting Author

Friday		
Posters		
11:30 am – 1:00 pm	D22	The Impact of Artificial Intelligence in Clinical Risk Management: A Focus on Fall Prevention Paolo Visci, MD*; Elena Graziano, MD; Michele Telegrafo, MD; Annachiara Vinci, MD; Fiorenza Zotti, MS; Alessandro Dell'Erba, MD, PhD; Davide Ferorelli, MD
11:30 am – 1:00 pm	D23	The Role of Engineering in Forensic Science: Physics Applied in a Case of Hemorrhagic Shock From Central Venous Catheter Blood Loss Gabriella Maisetta, MD*; Federica Spina, MD*; Ilaria Marcacci, MD*; Julia Lazzari, MD; Giulia Berneschi, MD; Luigi Papi, MD; Paolo Maremmani, MD; Fabio Giannelli, BSN; Alessandro Mariotti, PhD
11:30 am – 1:00 pm	D24	The Use of Stationary Phases Designed for Supercritical Fluid Chromatography for the Reversed-Phase Liquid Chromatographic Separation of Nine Isomers of Δ9-Tetrahydrocannabinol Gunnar Franz, BS*; Ira Lurie, PhD; Walter Wilson, PhD
11:30 am – 1:00 pm	D25	Augmented Reality Visualization for Postmortem Analysis of a Traffic Accident Clarification of Injury Mechanism Through PMCT-Based Antemortem Posture Reconstruction Haruki Fukuda, MD, PhD*; Akira Hayakawa, MD, PhD; Hiroyuki Tokue, MD, PhD; Rie Sano, PhD; Yoshihiko Kominato, MD, PhD
inguistics/Artificial Inte	elligence	
8:00 am – 8:45 am	D26	Environmental Signature Extraction for Forensic Analysis of Audio Recordings Using AI/LLM Models Lucky Onyekwelu-Udoka, MS*; Yong Guan, PhD
8:45 am – 9:15 am	D27	Quantitative Similarity Assessments of Forensic Images Gautham Venkatasubramanian, MS*; Alicia Carriquiry, PhD
9:15 am – 9:35 am	D28	Kumho, Engineering, and the Linguistics of Definitions Jeffrey Holmes, JD*; Carole Chaski, PhD
9:35 am – 9:55 am	D29	A Tool to Quickly Estimate Uncertainty of a Forensic Test Alessandro Ferrero, MS*; Veronica Scotti, JD
9:55 am – 10:10 am		BREAK
10:10 am – 10:30 am	D30	Artificial Intelligence Tools Applied to Forensic Engineering Cases: Overcoming This Challenge Through an Academic Cooperation Program Jose Medeiros, DSc*; Thiago Albuquerque, MS; Sandro Torres, PhD;

*Presenting Author

Bruno Leitão, BEng

Lucidio Cabral, DSc; Marçal Lima Filho, PhD; Gilberto Sousa Filho, DSc;

10:30 am – 10:50 am	D31	Falsely Accused: Generative AI and the Allegation of Academic Plagiarism Carole Chaski, PhD*
10:50 am – 11:10 am	D32	Weaknesses of Artificial Intelligence Proxies of Topic for Forensic Linguistic Applications Elizabeth Smith, PhD*; Cristina Aggazzotti, PhD; Nicholas Andrews, PhD
11:10 am – 11:30 am	D33	A Computational Method for Detecting Sophisticated Plagiarism Carole Chaski, PhD*
11:30 am – 11:50 am	D34	Analyzing Generative Al's Truth-Bias in Deceit Detection: An Empirical Experiment in English and Spanish Ángela Almela, PhD*

*Presenting Author