

# Scientific Sessions — Thursday

## Clinical Forensic Medicine

### World Police Medical Officers

Moderators: Philip S.L. Beh, MBBS, DMJ  
The University of Hong Kong  
Hong Kong SAR, China

William P. Ryan, MBBS  
Nowra, Australia

- 8:30 a.m. - 9:00 a.m.     **660**     **Healthcare Issues of Detainees in Police Custody, London, UK**  
*Jason Payne-James, LL.M, MSc, MBBS\*; P.G. Green, DMJ; Natasha Green, BA; M.H.W. Munro, FDS, MBBS; Greta McLachlan; Tara Moore, PhD, BS*
- 9:00 a.m. - 9:20 a.m.     **541**     **Medicolegal Evaluation of Juveniles Directed to Delinquent Behavior in Turkey**  
*Gamze Kavas; Riza Yilmaz, MD\*; Sema Demircin; Veli Ozdemir; Suleyman Serhat Gurpinar, MD\**
- 9:20 a.m. - 9:40 a.m.     **220**     **The Unified Method for Analysis on Cause of Death and Injury**  
*Hai-Peng Wang, MM; Xiao-Jun Yu, PhD\*; Yi Lu, BM; Shu-Wei Yu, BM*
- 9:40 a.m. - 10:00 a.m.     **673**     **Retrospective Analysis of Body Injuries in the Region of Thessaloniki-Hellas**  
*Spyridon G. Koutsoukis\**
- 10:00 a.m. - 10:30 a.m.     **Break**
- Moderators: Guy A. Norfolk, MBChB, DMJ  
Royal College of Physicians  
Bristol, United Kingdom
- Patricia A. Ryan, MBBS  
Nowra, Australia
- 10:30 a.m. - 10:50 a.m.     **239**     **Intra and Extra-Familial Sexual Crimes: Consequences Severity**  
*Francisco Taveira, MD\*; Katerina Puentes, MD; Eduarda Matos, MSc; Teresa Magalhães, MD, PhD*
- 10:50 a.m. - 11:10 a.m.     **93**     **Rape Epidemic in Mthatha Area of South Africa**  
*Banwari L. Meel, MD\**
- 11:10 a.m. - 11:40 a.m.     **Break**
- 11:40 a.m. - 12:00 p.m.     **694**     **General Clinical Management of Craniocerebral Traumatized Patients in Road Accidents**  
*Stan Cristian\*; Carmen Stan, MD, PhD*
- 1:00 p.m. - 1:20 p.m.     **577**     **Missed Ectopic Pregnancy Leading to Death – Medicolegal Perspective**  
*Ramesh K. Sharma, MD\**
- 1:20 p.m. - 1:40 p.m.     **388**     **Forensic Clinical Appraisal About Large Vestibular Aqueduct Syndrome (LAVS) of Three Cases**  
*Shengli Di\**
- 1:40 p.m. - 2:00 p.m.     **686**     **Spectrum of Fatal Common Household Poisoning in North West India: A 30-Year Autopsy Experience**  
*Dalbir Singh, MD\**

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## Criminalistics

Moderator: *Patrick Buzzini, MSc*  
*Forensic Investigative Science*  
*West Virginia University*  
*Morgantown, WV*

- 9:00 a.m. - 9:30 a.m.     **117**     **The Development and Evaluation of Radiological Decontamination Procedures for Forensic Evidence**  
*Andrew G. Parkinson, BSc\**; *Michael Colella, MSc*; *David Hill, BSc*;  
*Tegan C. Evans, BSc*; *Claude P. Roux, PhD*
- 9:30 a.m. - 9:50 a.m.     **148**     **The Effects of Ionising Radiation Exposure on the Forensic Assessment of Critical Trace Evidence**  
*Michael Colella, MSc\**; *Andrew G. Parkinson, BSc*; *Tegan C. Evans, BSc*;  
*Claude P. Roux, PhD*; *Chris J. Lennard, PhD*; *Serena Abbondante, BSc*;  
*James Robertson, PhD*
- 9:50 a.m. - 10:05 a.m.     **156**     **A New Statistical Method to Assess the Number of Fibers Transferred by a Textile on Car Seats**  
*Genevieve Massonnet\**; *Florence Monard Sermier*
- 10:05 a.m. - 10:20 a.m.     **243**     **Spectral Analysis of Metameric Blue Fibers and Their Forensic Significance**  
*Paul Martin, PhD\**; *Mary Eng, BS*; *Candida Bhagwandin, BS*

10:20 a.m. - 10:45 a.m.     **Break**

Moderator: *Robin Bowen, MA*  
*West Virginia University*  
*Morgantown, WV*

- 10:45 a.m. - 11:15 a.m.     **280**     **Trace Element Analysis Using X-Ray Fluorescence Microscope**  
*Sergey Mamedov, PhD\**; *Jon Goldey, MS*; *George Setola, MS*; *Andrew Whitley, PhD*
- 11:15 a.m. - 11:45 a.m.     **550**     **Application of Cathodoluminescence Microspectrophotometry for the Forensic Comparison of Concrete Samples**  
*Graham F. Peaslee, PhD\**; *Christopher S. Palenik, PhD*; *JoAnn Buscaglia, PhD*
- 11:45 a.m. - 12:05 p.m.     **397**     **What is the Occurrence of Petrol Traces in Car Boots? An Australian Survey**  
*Michelle Hancock, BSc*; *Philip Maynard, PhD\**; *Karen Cavanagh-Steer, BSc*;  
*Naomi Speers, PhD*; *Claude P. Roux, PhD*

Moderator: *TBD*

- 1:30 p.m. - 1:45 p.m.     **556**     **The Detection of Organic Explosives Using Lab-on-a-Chip Technology**  
*Alison Beavis, BSc*; *Philip Doble, PhD*; *Ilona Kramer, BSc\**; *Philip Maynard, PhD*;  
*Michael Dawson, PhD*; *Chris J. Lennard, PhD*; *Claude P. Roux, PhD*
- 1:45 p.m. - 2:15 p.m.     **629**     **Identification of Synthetic Fibers Using Hotstage Microscopy and Eutectic Melting Point With P-Nitrophenol**  
*Kelly M. Brinsko, MS\**
- 2:15 p.m. - 2:30 p.m.     **47**     **The Application of an Activated Carbon Membrane for Analysis of Ignitable Liquid Residues**  
*Ruiqin Yang, PhD\**; *Wenlin Xie, BS*
- 2:30 p.m. - 2:50 p.m.     **398**     **Analysis of Emerging Explosive Mixtures and Explosive Precursors**  
*Henriques Noel, BSc*; *Philip Maynard, PhD\**; *Philip Doble, PhD*; *Sonia Taflaga, PhD*
- 2:50 p.m. - 3:10 p.m.     **Break**

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Moderator: TBD

- 3:10 p.m. - 3:30 p.m. **557** **Analysis of Organic Explosives via Rapid Resolution Liquid Chromatography Triple Quadrupole Mass Spectrometry**  
*Alison Beavis, BSc; Jessica Booth, BSc\*; Tessa Barrett, BSc; Claude P. Roux, PhD; Philip Doble, PhD*
- 3:30 p.m. - 4:00 p.m. **502** **An Overview of the Construction, Chemical Nature, and Laboratory Analysis of Chemical Reaction Bombs**  
*Vincent J. Desiderio, MS\*; Peter Diaczuk, BS*
- 4:00 p.m. - 4:25 p.m. **606** **Urea Nitrate: A Powerful Explosive That is Easier to Make Than Frying an Egg**  
*Joseph Almog, PhD\**
- 4:25 p.m. - 4:40 p.m. **705** **Blood on Black - Using Polarized Light to Enhance Bloodstains on Dark Surfaces**  
*Rebecca Bucht\*; Peter R. De Forest, DCrim; Frani Kammerman; Brooke Weinger*
- 4:40 p.m. - 5:00 p.m. **722** **Nanomanipulation Coupled to Nanospray Mass Spectrometry: Applications to Direct Cell Probing and Trace Fiber Analysis**  
*Nicole R. Ledbetter\*; Guido F. Verbeck, PhD*

## Drugs of Abuse

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### Cocaine

Moderator: Sanford A. Angelos, MS, MEd  
Aris Associates, Ltd.  
Chicago, IL

- 8:45 a.m. - 9:00 a.m. **Introduction**
- 9:00 a.m. - 9:20 a.m. **35** **A Simple Methodology for Routine Coca Leaves Analysis**  
*Nestor A. Gomez Guerrero, BS\**
- 9:20 a.m. - 9:40 a.m. **164** **Determination of Cocaine and its Metabolite Benzoylcegonine in Hair Using Liquid Chromatography-Tandem Mass Spectrometry**  
*Ping Xiang\*; Min Shen, Qiran Sun*

### Steroids

- 9:40 a.m. - 10:00 a.m. **196** **Physiological Concentrations of Endogenous Anabolic Steroids in Human Hair**  
*Min Shen\*; Ping Xiang, MS\**
- 10:00 a.m. - 10:20 a.m. **130** **Proteomics-Based Method for the Identification of Human Growth Hormone (HGH)**  
*Eric S. Wisniewski, PhD\*; David K. Rees, MS; Esther W. Chege, MS*
- 10:20 a.m. - 10:40 a.m. **Break**

### Cannabis

- 10:40 a.m. - 11:00 a.m. **638** **Operation Reap - Towards True Hydroponic Yield Estimates**  
*Glenys A. Knight, BSc\*; Sean Hansen*
- 11:00 a.m. - 11:20 a.m. **100** **Remote Detection of Outdoor Cannabis Grow-Ops**  
*Margaret Kalacska, PhD; Brian Thiessen, BSc\**

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- 11:20 a.m. - 11:40 a.m.     **661**     **Analyzing Salvia Divinorum and its Active Ingredient Salvinorin A Utilizing Thin Layer Chromatography and Gas Chromatography / Mass Spectrometry**  
*John D. Jermain, MS\**
- 11:40 a.m. - 12:00 p.m.     **703**     **The Scientific Working Group for the Analysis of Seized Drugs (SWGDRUG)**  
*Scott R. Outlon, BS\**
- Moderator: *Jeffrey H. Comparin, BS*  
*U.S. Drug Enforcement Administration*  
*Dulles, VA*
- 1:00 p.m. - 3:30 p.m.     **506**     **Fentanyl, Multiple Fatalities, and Forensic Science: A Multidisciplinary Symposium**  
*Ira S. Lurie, MS\*; Arthur Berrier, PhD\*; Daniel S. Isenschmid, PhD\*;*  
*J. Scott Denton, MD\*; Shinichi Suzuki, PhD\**

## Fingerprint Detection and Identification

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Moderator: *Kathryn Siegfried*  
*Purdue University*  
*West Lafayette, IN*

- 8:30 a.m. - 8:50 a.m.     **83**     **A Long Afterglow Phosphor Powder for Fingerprint Detection**  
*Li Liu\*; Zhongliang Zhang, MS*
- 8:50 a.m. - 9:10 a.m.     **394**     **Ascorbic Acid Analogues as Reagents for the Detection of Latent Fingermarks - Analysis of the Reaction With Amino Acids**  
*Freya Turner, BSc\*; Ronald Shimmon, PhD; Philip Maynard, PhD;*  
*Claude P. Roux, PhD; Chris J. Lennard, PhD*
- 9:10 a.m. - 9:30 a.m.     **553**     **The Application of Anti-Stokes Luminescence for the Detection and Enhancement of Latent Fingermarks**  
*Elicia Bullock, BSc\*, Philip Maynard, PhD, Brian J. Reedy, PhD,*  
*Chris J. Lennard, PhD, Claude P. Roux, PhD*
- 9:30 a.m. - 9:45 a.m.     **48**     **Preparation and Usage of a New Fingerprint Developing Membrane**  
*Ruiqin Yang, PhD\*; Wenlin Xie, BS*
- 9:45 a.m. - 10:05 a.m.     **578**     **Diacetylene Copolymers for Fingerprint Development**  
*Meena Mikhael, BSc; Mark Tahtouh, BSc; Brian J. Reedy, PhD\**
- 10:05 a.m. - 10:30 a.m.     **Break**
- Moderator: *Victor Weedn, MD, JD*  
*Office of the State medical Examiner*  
*Trenton, NJ*
- 10:30 a.m. - 11:00 a.m.     **623**     **Subsequent Chemical Treatment for the Enhancement of Latent Prints Developed with Silver Physical Developer**  
*David E. Burow, BS, MSFS\**
- 11:00 a.m. - 11:30 a.m.     **390**     **Mechanism Studies on the Indanedione-Zinc Reagent**  
*Xanthe M. Spindler, BSc\*; Ronald Shimmon, PhD; Claude P. Roux, PhD;*  
*Chris J. Lennard, PhD*
- 11:30 a.m. - 11:45 a.m.     **128**     **Application of Functionalized Nanoparticles for Developing Latent Fingerprints**  
*Yuan Feng Wang, DSc\*; Rui Qin Yang, DSc; Yan Ji Wang, DSc; Ke Zhao, MSc;*  
*Yong Feng Zhao, MSc; Zhi Xia Shi, MSc; Jian Jun Liu, DSc*

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- 11:45 a.m. - 12:00 p.m.      **56**      **The Quantification of Fingerprint Quality Using a Relative Contrast Index**  
*Jill D. Humphreys, BSc\*; Glenn Porter; Michael Bell*
- Moderator: *Susan M. Ballou, MS*  
*NIST, Law Enforcement Standards*  
*Gaithersburg, MD*
- 1:30 p.m. - 2:00 p.m.      **324**      **Human Identification by Means of Sweat Pores**  
*Carlos E. Alvarez Cruz\**
- 2:00 p.m. - 2:20 p.m.      **276**      **Development of a Digital Imaging Process for Indirect Latent Fingerprint Comparison in Research**  
*Shaheen B. Aumeer-Donovan, BSc\*; Bruce Comber; Chris J. Lennard, PhD; Claude P. Roux, PhD*
- 2:20 p.m. - 2:40 p.m.      **277**      **A Preliminary Evaluation of the Use of an Inkjet Printer to Produce a Latent Fingerprint Standard**  
*Shaheen B. Aumeer-Donovan, BSc\*; Chris J. Lennard, PhD; Claude P. Roux, PhD*
- 2:40 p.m. - 3:00 p.m.      **533**      **Digital Measuring Fingerprint and Palmprint Details: A New Technique of Digital Identification**  
*John Wang, PhD\**
- 3:00 p.m. - 3:30 p.m.      **Break**
- 3:30 p.m. - 4:15 p.m.      **88**      **Validation and Implementation of Probabilistic Based Fingerprint Evidence**  
*Cedric Neumann\*; Nicole Egli; David Reynolds; Paul Chamberlain*

## Firearm / Toolmark Examination & Identification

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Moderator: *TBD*

- 1:30 p.m. - 1:45 p.m.      **480**      **Comparing Two Methods of Analysis: Application of Factorial Design to the Evaluation of Modified Griess Test**  
*Cristian Lizama, BSc\*; Rubén Arancibia, BSc\*; Marcelo Higuera, BEngSc.; Sylvia Figueroa, BSc; Mario Ollino, DrSc*
- 1:45 p.m. - 2:05 p.m.      **657**      **Determination of Direction of Shot at Presence of One Track of Shell on a Barrier**  
*Bukenbay Bishmanov, PhD\*; Konstantin Aleksandrov\**
- 2:05 p.m. - 2:25 p.m.      **535**      **Digital Measuring Rifling Angle: A New Technique of Digital Identification**  
*John Wang, PhD\**
- 2:25 p.m. - 2:55 p.m.      **555**      **Laser Ablation ICP-MS of Metal Particles Generated From the Illicit Removal of Firearm Serial Numbers**  
*Julia F. Norman, BSc; Philip Doble, PhD; Alison Beavis, BSc\*; Steele Diggles, BSc; Eric Davies; Claude P. Roux, PhD*
- 2:55 p.m. - 3:30 p.m.      **Break**
- 3:30 p.m. - 3:50 p.m.      **193**      **Reproducibility of Ejector Marking on Expended Cartridge Cases**  
*Tsuneo Uchiyama\**
- 3:50 p.m. - 4:05 p.m.      **696**      **The Identification of Bullets Fired From Ten Consecutively Rifled 9mm Pistol Barrels – A Research Project Involving 446 Forensic Scientists From Laboratories in 18 Countries**  
*James E. Hamby, PhD\*; David J. Brundage, MS; James W. Thrope, PhD*

# Scientific Sessions — Thursday

## Forensic Biology, DNA Profiling, and Serology

Moderator: *Lawrence A. Quarino, PhD*  
*Cedar Crest College*  
*Allentown, PA*

- 8:30 a.m. - 8:55 a.m.     **554**     **Application of the VALID™ Software to Manage Quality Assurance Activities**  
*Jacki Benfield, BS\**
- 8:55 a.m. - 9:15 a.m.     **166**     **Success Rate of DNA-Typing of Vaginal and Anal Swabs in 34 Sexual Assault Cases**  
*Kim Vos, MSc\**
- 9:15 a.m. - 9:30 a.m.     **246**     **Micromanipulation Separation of Cells for Short Tandem Repeat Analysis**  
*Lan Hu, MD\*; An-Quan Ji, MS; Cai-Xia Li, MD; Qin Su, MS; Xin Li, MS*
- 9:30 a.m. - 9:45 a.m.     **238**     **Comparison of Five Fabric Types as a Swabbing Medium for the Removal of DNA From a Glass Surface**  
*Stacie Kaufman\*; Christina Mulligan\*; Lawrence A. Quarino, PhD*
- 9:45 a.m. - 10:15 a.m.     **Break**

Moderator: *Stacie R. Kaufman*  
*Cedar Crest College*  
*Allentown, PA*

- 10:15 a.m. - 10:40 a.m.     **561**     **Advancing Microfluidic Systems Honed for Forensic DNA Analysis**  
*James P. Landers, PhD\**
- 10:40 a.m. - 11:05 a.m.     **262**     **Genebench-FX™: Towards Sample-In to Results-Put Analysis of Forensic Samples in Under 45 Minutes**  
*Eugene Tan, PhD\**
- 11:05 a.m. - 11:20 a.m.     **586**     **A Multiplexed SNP Detection Assay for Human Identification**  
*Rixun Fang, PhD\*; Fiona Hyland, PhD; Pius Brzoska, PhD; Jaiprakash Shewale, PhD; Judith R. Kidd, PhD; Kenneth K. Kidd, PhD; Manohar R. Furtado, PhD\**
- 11:20 a.m. - 11:35 a.m.     **664**     **Haplotype Block: A New Type of Forensic DNA Markers**  
*Jianye Ge, MS\*; Huifeng Xi, MS; Bruce Budowle, PhD; Ranajit Chakraborty, PhD*
- 11:35 a.m. - 11:55 a.m.     **174**     **Development of a Forensic Screening Tool: The PowerPlex® S5 System**  
*Katie Zurbuchen, MS; Dawn Rabbach; Patricia Fulmer, PhD; Cynthia Sprecher, BS; Rita Weispenning, PhD; Melissa Schwandt, PhD\*; Curtis Knox, BS; Douglas Storts, PhD*

Moderator: *Lucy Davis Houck, BHS*  
*LDH Consultants, LLC*  
*Morgantown, WV*

- 1:30 p.m. - 1:50 p.m.     **379**     **Sequential Unmasking: A Means of Minimizing Observer Effects in Forensic DNA Interpretation**  
*Dan E. Krane, PhD; Simon Ford, PhD; Jason Gilder, PhD, JD; Keith Inman, MCrim\*; Allan Jamieson, PhD; Roger Koppl, PhD; Irv Kornfield, PhD; D. Michael Risinger, JD; Norah Rudin, PhD; Marc S. Taylor; William Thompson, PhD, JD*
- 1:50 p.m. - 2:15 p.m.     **368**     **Analytical Principals in the Interpretation of DNA Profiles**  
*Bruce R. McCord, PhD\**

# Scientific Sessions — Thursday

- 2:15 p.m. - 2:35 p.m.     **175**     **Validation of an Extraction Methodology for Obtaining of High Quality Genomic DNA From Forensic Evidence Samples**  
*Maxim G. Brevnov, PhD; Hemant S. Pawar, PhD; Janna Mundt, PhD; Manohar R. Furtado, PhD; Jaiprakash G. Shewale, PhD\**
- 2:35 p.m. - 2:55 p.m.     **146**     **An Automated System for the High-Throughput Processing of Differential Extraction Samples**  
*Ryan Olson, BS; Christopher Cowan, PhD; Melissa Schwandt, PhD\*; Curtis D. Knox, BS; Doug Storts, PhD*
- 2:55 p.m. - 3:25 p.m.     **Break**  
*Moderator: Joseph E. Warren, PhD  
Burlison, TX*
- 3:25 p.m. - 3:50 p.m.     **139**     **A DNA-Based Multiplex Screening Tool for Separation of Fragmented and Commingled Skeletal Remains**  
*Angela Ambers, MS\*; Meredith Turnbough, MS; Rhonda Roby, MS; Joseph E. Warren, PhD; Robert Benjamin, PhD*
- 3:50 p.m. - 4:10 p.m.     **362**     **The STR Profiling of Human Tissues Fixed in Unbuffered Formalin**  
*Liu Yan, BS\**
- 4:10 p.m. - 4:25 p.m.     **118**     **The Stability of DNA Extracted From Bones by Developed Silica-Based Method**  
*Tuo Ya, PhD\*; Zheng Hai-Bo, MS; Zhang Hong-Bo, PhD; Li Sheng-Bin, PhD*
- 4:25 p.m. - 4:35 p.m.     **201**     **Study on the Construction of D2S1 338 Allelic Ladder**  
*Li Yuan, MS\*; Tao Cheng Jiang, MS*

## Forensic Nursing and Sexual Assault Examination

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*Moderator: Virginia A. Lynch, MSN, RN  
University of Colorado at Colorado Springs  
Colorado Springs, CO*

- 8:00 a.m. - 8:30 a.m.     **237**     **The Impact of Forensic Nursing and Its Effectiveness in Criminal Justice**  
*Michele Bishop, MS\**
- 8:30 a.m. - 9:00 a.m.     **274**     **Exploring the Role of Forensic Nursing: Implementation of a SANE Program in the Capital City**  
*Wanda L. Pezant, BSN, RN\*; Randall Brown, MD\**
- 9:00 a.m. - 10:00 a.m.     **653**     **Preparing the Clinical Forensic Nurse for Criminal Trial Testimony**  
*Jamie J. Ferrell, BSN, RN\**
- 10:00 a.m. - 10:30 a.m.     **Break**
- 10:30 a.m. - 11:00 a.m.     **648**     **Sexual Abuse of the African Child and the Forensic Nurse Examiner**  
*Virginia A. Lynch, MSN, RN\**
- 11:00 a.m. - 12:00 p.m.     **662**     **Assessment of Strangulation in the Clinical Setting to Trial Presentation**  
*Tiffani Dusang, BSN, RN\**

# Scientific Sessions — Thursday

Moderator: *Virginia A. Lynch, MSN, RN*  
*University of Colorado at Colorado Springs*  
*Colorado Springs, CO*

- 1:00 p.m. - 2:00 p.m.     **663**     **Recognition of Domestic Violence During Pregnancy**  
*Floyd Hand, RN\**
- 2:00 p.m. - 2:30 p.m.     **716**     **Victim Education Regarding Expectations of the “CSI Effect”**  
*Valerie K. Fahrnow, BS, BSN, RN\**
- 2:30 p.m. - 3:00 p.m.     **Break**
- 3:00 p.m. - 3:45 p.m.     **713**     **Forensic Nursing Science: Sexual Trauma and Death Investigation**  
*Virginia A. Lynch, MSN, RN\**
- 3:45 p.m. - 4:30 p.m.     **717**     **Touch and Transfer DNA Samples — Evidence of the Future: Misconception, Potentials, and Real Life Applications**  
*Valerie K. Fahrnow, BS, BSN, RN\**

## Forensic Odontology

Moderator: *Philip J. Levine, DDS*  
*Pensacola, FL*

- 3:30 p.m. - 3:50 p.m.     **652**     **Age Determination From Fetus and Infant Teeth**  
*Sema P. Aka\*; Nergis Canturk, MD; Murat Yagan, MD; Rukiye Dagalp, PhD*
- 3:50 p.m. - 4:10 p.m.     **646**     **Clinical Radiological 2nd and 3rd Molar Ossification vis-à-vis Epiphyseal Changes in the Elbow Region of Cosmopolitan Indians Compared With the Three Major Malaysian Races**  
*George Paul, MBBS, MD, DMJ\**
- 4:10 p.m. - 4:30 p.m.     **600**     **Dental Chart Identification of a Dismembered Female Body**  
*Mary Piamba\**
- 4:30 p.m. - 4:50 p.m.     **545**     **Forensic Approach in Cases of Professional Odontological Responsibility in Colombia**  
*Jorge Alfonso Casas Martinez\**
- 4:50 p.m. - 5:20 p.m.     **219**     **Identification of an Unidentified Skeletal Assemblage From a Mass Grave - 1755 Earthquake of Lisbon: Palaeodemography and Palaeopathology Identification by Dental Parameters - Part I**  
*Cristiana Maria P. Pereira, DDS\*; Mário Filipe Bernardo, PhD; Maria Cristina de Mendonça, PhD; Miguel Telles Antunes, PhD; Jorge Costa Santos, PhD*
- 5:20 p.m. - 5:35 p.m.     **38**     **Hurricane Katrina - Recovery and Identification of the Victims**  
*Robert E. Barsley, DDS, JD\**
- 5:35 p.m. - 5:50 p.m.     **32**     **Weighing of Highly Significant Dental Features in Forensic Identifications**  
*Herman Bernitz, BChD, PhD\**

# Scientific Sessions — Thursday

## Forensic Pathology

Moderator: James G. Young, MD  
Wyevale, Ontario  
Canada

- 9:00 a.m. - 9:15 a.m.     **269**     **A Series of Accidental Hanging Deaths in Children**  
*Serafettin Demirci, MD; Kamil Hakan Dogan, MD\*; Mete K. Gulmen, MD; Zerrin Erkol, MD*
- 9:15 a.m. - 9:35 a.m.     **106**     **An Autopsy-Based Retrospective Study of Injury Patterns of Homicide in Hong Kong: Injuries Pattern, Severity, and Prediction of Motive and Relationship With the Offender**  
*Kwan Ip Au\*; Philip S.L. Beh, MBBS, DMJ*
- 9:35 a.m. - 9:55 a.m.     **430**     **An Unusual Case of Multiple Gunshot Suicide**  
*Andreas K. Marnerides, MD\*; Eleni Zangelidou, MD, PhD; Roumbini Leontari, MD, PhD*
- 9:55 a.m. - 10:10 a.m.     **72**     **Analysis of 32 Deaths During Aesthetic Procedures**  
*Jorge E. Paredes, MD; Andres D. Restrepo, MD\**
- 10:10 a.m. - 10:30 a.m.     **Break**
- 10:30 a.m. - 10:45 a.m.     **337**     **Analysis of Postmortem Metabolic Changes Using ATR-Fourier Transform Infrared Spectroscopy**  
*Ping Huang, MD\*; Ke Yong, BS; Bo Xin, BS; Tuo Ya, BS; Guangde Yang, PhD; Zhenyuang Wang, MD, PhD*
- 10:45 a.m. - 11:00 a.m.     **119**     **Autopsy in Iran, a Legend or a Necessity? Current Problems of Doing Autopsy in a Moslem Country, Iran**  
*Hamid Reza Sharifzad\*; Roya Rategh*
- 11:00 a.m. - 11:40 a.m.     **609**     **Characterization of the Cases of Cyanide Poisoning - Bogota, Colombia 1997-2007**  
*Adriana Garcia\**
- 11:40 a.m. - 12:10 p.m.     **601**     **Comparison of Atherosclerosis Ratio of Three Main Arteries at Autopsies in Trabzon**  
*Nursen Turan\*; Ismail Birincioglu\*; Yavuz Ozoran; Umit Cobanoglu; Mehmet Ali Ca*
- 1:30 p.m. - 1:45 p.m.     **151**     **Establishment of the Model of TSAH and a Study on Relationship Between TSAH and Blood Alcohol Concentration in Rats**  
*Shu-Wei Yu, BM; Xiao-Jun Yu, PhD\*; Yi Lu, MM; Bo Hu, BM*
- 1:45 p.m. - 2:05 p.m.     **103**     **Fracture of the Cricoid as a Potential Pointer to Homicide: A Six Year Retrospective Study of Neck Structures Fractures in Hanging Victims**  
*Anny Sauvageau, MD, MSc\*; Caroline Tanguay, MD, MSc*
- 2:05 p.m. - 2:20 p.m.     **666**     **Mechanisms of Delayed Splenic Rupture: A New Hypothesis**  
*Sarathchandra Kodikara, MBBS, MD, DLM\*; Murugapillai Sivasubramaniam, MBBS, MD, DLM*
- 2:20 p.m. - 2:35 p.m.     **28**     **Postmortem Alterations in the Muscle: Time and Temperature Dependence of Selective Protein Markers**  
*Shashi K. Jasra, PhD\*; Ashley Lutz; Crystal Abbas, BS; Alden Warner, PhD*
- 2:35 p.m. - 3:00 p.m.     **109**     **Risk of Hand-Grenade Explosion and Public Health in Transkei Region of South Africa - Case Reports**  
*Banwari L. Meel, MD\**
- 3:00 p.m. - 3:30 p.m.     **Break**

# Scientific Sessions — Thursday

- 3:30 p.m. - 3:45 p.m.    **678**    **Simultaneous Sudden Infant Death in Twins From Brugada Syndrome - Critical Forensic Issues in Death Investigation and the Role of DNA Testing**  
*Steven B. Karch, MD\*; Irene Riezzo, MD; Stefano Neri, MD; Christoforo Pomara, MD*
- 3:45 p.m. - 4:05 p.m.    **102**    **Six Year Retrospective Study of Suicidal Hangings: Determination of the Pattern of Limb Lesions Induced by Body Responses to Asphyxia by Hanging**  
*Anny Sauvageau, MD\**
- 4:05 p.m. - 4:25 p.m.    **321**    **Study of Relationship Between the Pathological Change of Intima and Internal Elastic Lamina in Human Coronary Artery and the Coronary Heart Disease and Sudden Coronary Death**  
*Xinshan Chen, MD\*; Guoyan Liu, MD*
- 4:25 p.m. - 4:40 p.m.    **152**    **Study on Vascular Morphology and Biomechanics of Traumatic Subarachnoid Hemorrhage in Acute and Chronic Alcoholism in Rats**  
*Hai-Peng Wang, MM; Xiao-Jun Yu, PhD\*; Guo-Hui Xu, MM; Yi Lu, BM*
- 4:40 p.m. - 4:55 p.m.    **211**    **Sudden Death Due to Colloid Cyst of the Third Ventricle and a Special Sign at Autopsy: Three Case Reports**  
*Serafettin Demirci, MD\*; Kamil Hakan Dogan, MD; Zerrin Erkol, MD; Mete Korkut Gulmen, MD*

## Forensic Science Education

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### New Topics in Training

Moderator: *Max M. Houck, MA*  
*West Virginia University*  
*Morgantown, WV*

- 2:40 p.m. - 3:00 p.m.    **692**    **National Footwear Training in the United Kingdom**  
*Shaun P. Mallinson\**
- 3:00 p.m. - 3:30 p.m.    **Break**
- 3:30 p.m. - 3:45 p.m.    **597**    **A New Model of Teaching Forensic Science at Universities**  
*Piotr A. Girdwoyn\*; Tadeusz J. Tomaszewski*
- 3:45 p.m. - 4:00 p.m.    **341**    **Applied Research on the Teaching Method of PBL in Forensic Pathology**  
*Xinshan Chen\**
- 4:00 p.m. - 5:00 p.m.    **182**    **Implementation of a Country Forensic Education Structure as a Foundation for Harmonizing Forensic Procedures at the National Level**  
*Renato Barbosa Barbosa\**

# Scientific Sessions — Thursday

## Law and Ethics

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Moderator: *Anjali R. Swienton, MFS, JD*  
*SciLawForensics, Ltd.*  
*Germantown, MD*

- 9:00 a.m. - 9:30 a.m.     **244**     **Scientifically Flawed Forensic Opinions: A Systemic Solution to an Enduring Problem**  
*Thomas L. Bohan, PhD, JD\**
- 9:30 a.m. - 9:40 a.m.     **133**     **“Transplant Tourism:” The Indian Perspective of an International Pandemic**  
*Yogender S. Bansal, MBBS, MD, DHA\*; Harish Dasari, MBBS, MD*
- 9:40 a.m. - 10:00 a.m.     **691**     **Damned if You Do, Damned if You Don’t**  
*Karin A. Margolius, LLB, MBBCH\*; Judith G. Fordham, BSc, LLB*
- 10:00 a.m. - 10:30 a.m.     **Break**
- 10:30 a.m. - 10:45 a.m.     **569**     **Electron Microscope (SEM Analysis) in Medical Malpractice Cases**  
*Nur Birgen, MD\*; Salih Cengiz; Meltem Demir; Ozlem Ycmeli*
- 10:45 a.m. - 11:00 a.m.     **383**     **The Statistic of the Legislation on Brain Death in Ethnic**  
*Gexin Liu\**

## Questioned Documents

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Moderators: *Peter V. Tytell, BA*  
*Forensic Research*  
*New York, NY*

*Robert J. Muehlberger, BA*  
*U.S. Postal Inspection Service*  
*Forensic Service Laboratory*  
*Dulles, VA*

- 9:00 a.m. - 9:20 a.m.     **167**     **Counterfeit Currency**  
*Meenakshi Mahajan, PhD\*; Visheshwar Sharma, MSc*
- 9:20 a.m. - 9:40 a.m.     **377**     **Application of the Raman Spectroscopy and  $\mu$ -XRF Method Examination of Laser Printer Toners**  
*Che Xu\*, Yiwen Luo, Xu Yang, Shaopei Shi, Jianhua Xi, Xinwei Bian, Weilong Sun*
- 9:40 a.m. - 10:15 a.m.     **17**     **Determination of Paper Types and Additives Using Direct Analysis in Real Time Mass Spectrometry (DART-MS)**  
*Jeanette Adams, PhD\**
- 10:15 a.m. - 10:50 a.m.     **Break**
- 10:50 a.m. - 11:05 a.m.     **534**     **Examination of Secondary Latent Type Impressions – A Novel Method**  
*Meenakshi Mahajan, PhD\*; Visheshwar Sharma, MSc; Satya Prakash Arya, PhD*
- 11:05 a.m. - 11:35 a.m.     **636**     **Reflection Transformation Imaging (RTI) and 3D Evidence Capture**  
*Elaine X. Wooton\**
- 11:35 a.m. - 11:50 a.m.     **378**     **The Microscopic Characteristics of the Crossing Area in Sequencing of Stamp Impressions and Written/Printed Words**  
*Xu Yang\*; Shaopei Shi; Che Xu; Huangui Qian*
- 11:50 a.m. - 12:00 p.m.     **Questions and Discussion**

# Scientific Sessions — Thursday

Moderators: *Peter V. Tytell, BA*  
*Forensic Research*  
*New York, NY*

*Robert J. Muehlberger, BA*  
*U.S. Postal Inspection Service*  
*Forensic Service Laboratory*  
*Dulles, VA*

1:00 p.m.	-	1:30 p.m.	<b>642</b>	<b>Potential Applications of Interferometry to Questioned Document Analyses</b> <i>Andrew Barton, BSc*</i>
1:30 p.m.	-	1:50 p.m.	<b>376</b>	<b>Three Issues Related to Identification of Stamp Impressions</b> <i>Shaopei Shi, BS*</i> ; <i>Xu Yang, BS</i> ; <i>Huanggui Qian, BL</i> ; <i>Che Xu, BE</i>
1:50 p.m.	-	2:10 p.m.	<b>395</b>	<b>The Study of the Relative Age of Seal Stamps by TLC</b> <i>Shuang Hu*</i>
2:10 p.m.	-	2:40 p.m.	<b>704</b>	<b>Well Founded Eliminations</b> <i>Robert J. Muehlberger, BA*</i>
2:40 p.m.	-	3:00 p.m.		<b>Break</b>
3:00 p.m.	-	3:30 p.m.		<b>Panel Discussion: Evaluation of Observations and Strength of Conclusions</b> <i>Peter V. Tytell, BA*</i> ; <i>Robert J. Muehlberger, BA*</i>

# Scientific Sessions — Friday

## Computer Forensics and Digital Evidence

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Moderator: *Carrie M. Whitcomb, MSFS*  
*National Center for Forensic Science*  
*University of Central Florida*  
*Orlando, FL*

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|-----------|---|-----------|------------|--|
| 1:30 p.m. | - | 1:50 p.m. | <b>26</b>  | <b>Computer Forensics With Improved Framework Model</b><br><i>Sundresan Perumal*</i> ; <i>Norita Md Norwawi</i>    |
| 1:50 p.m. | - | 2:20 p.m. | <b>138</b> | <b>Video File Recovery and Playback</b><br><i>Rikkert Zoun, MS*</i> ; <i>Zeno J. Geradts, PhD</i>                  |
| 2:20 p.m. | - | 2:30 p.m. | <b>288</b> | <b>Getting Computer-Stored Evidence by Programming With .Net Framework</b><br><i>Meng Ding, MS*</i>                |
| 2:30 p.m. | - | 2:50 p.m. | <b>172</b> | <b>Forensic Investigations on Code Protected Microprocessors</b><br><i>Jürgen Frinken*</i> ; <i>Johann Machnik</i> |
| 2:50 p.m. | - | 3:30 p.m. |            | <b>Break</b>   |
| 3:30 p.m. | - | 4:00 p.m. | <b>333</b> | <b>Techniques for Automating Windows Event Log Forensics</b><br><i>Carey R. Murphey, PhD*</i>                      |

## Crime Scene Investigation and Police Science

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Moderator: *Robert A. Freed, BS*  
*Lansdale, PA*

- |            |   |            |            |   |
|------------|---|------------|------------|---|
| 8:30 a.m.  | - | 9:00 a.m.  | <b>690</b> | <b>Accreditation of Crime Scene Investigation</b><br><i>Peter W. Pfefferli*</i>   |
| 9:00 a.m.  | - | 9:30 a.m.  | <b>487</b> | <b>Crime Scene Search Theory</b><br><i>H. Dale Nute, PhD*</i> ; <i>Mark Feulner, MA</i>   |
| 9:30 a.m.  | - | 9:55 a.m.  | <b>697</b> | <b>Forensic Science Competence in the Police Service – Building Knowledge to Reduce Crime</b><br><i>Samantha Frost*</i>   |
| 9:55 a.m.  | - | 10:15 a.m. | <b>681</b> | <b>Raising the Standards of Professional Practice — CSIs &amp; Fingerprint Examiners</b><br><i>Peter Walters, BA*</i>   |
| 10:15 a.m. | - | 10:30 a.m. |            | <b>Break</b>  |
| 10:30 a.m. | - | 10:45 a.m. | <b>644</b> | <b>Palm and Foot Impressions: Their Accuracy in Reconstructing Stature</b><br><i>Nasir Ahmed, MSc</i> ; <i>Ruma Purkait, PhD*</i>   |
| 10:45 a.m. | - | 11:05 a.m. | <b>75</b>  | <b>Bloodstained Footwear Impression Enhancement: Comparison of Infrared Photography to Diaminobenzidine (DAB) Treatment</b><br><i>James A. Bailey, PhD*</i> ; <i>Daniel J. Swart, PhD</i> |
| 11:05 a.m. | - | 11:25 a.m. | <b>85</b>  | <b>A Profile of Non-Natural Deaths in the Area of Transkei South Africa</b><br><i>Banwari Meel, MD*</i> ; <i>Ram Prakash Kaswa, MBBS</i>  |
| 11:25 a.m. | - | 11:40 a.m. | <b>59</b>  | <b>Bodies in Parcels</b><br><i>Fawzi A. Benomran, MB, ChB, MSc, DCH, MD*</i>  |

# Scientific Sessions — Friday

- 11:40 a.m. - 11:55 a.m.     **49**     **A Case Study of Racehorse Sample Matching Using a Novel 24-plex STR Typing System**  
*Jin-Wen Chen, PhD\**; *Cornelius E. Uboh, PhD*; *Lawrence R. Soma, VMD*
- 11:55 a.m. - 12:15 p.m.     **560**     **Investigation Into a Screening Method for Trace DNA Detection at the Crime Scene**  
*Kate Howson, BSc*; *Jennifer Raymond, BSc*; *Laszlo Szabo, PhD*;  
*Peter R. Gunn, PhD*; *Chris J. Lennard, PhD*; *Claude P. Roux, PhD\**

## Criminal Profiling

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Moderator: *James M. Adcock, PhD*  
*University of New Haven*  
*West Haven, CT*

- 1:00 p.m. - 1:45 p.m.     **161**     **Combating Child Sexual Exploitation in Colombia – Presentation of an Investigator and Crime Scene Analyst’s Manual – Guideline**  
*Gloria Guzman, LD\**; *Maria D. Sanchez, MD\**
- 1:45 p.m. - 2:30 p.m.     **375**     **Self-Reported Female Consumers of Internet Child Pornography: A Psychological Analysis**  
*Kathryn C. Seigfried, MA\**; *Marcus K. Rogers, PhD*
- 2:30 p.m. - 2:50 p.m.     **670**     **Deciphering Who Killed the Prostitute Utilizing Keppel and Walter’s Revised Classification Model for Understanding Sexual Murder**  
*James M. Adcock, PhD\**

## Drugs of Abuse

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### New Technologies

Moderator: *Sanford A. Angelos, MS, MEd*  
*Aris Associates, Ltd.*  
*Chicago, IL*

- 8:45 a.m. - 9:00 a.m.     **711**     **DESI-MS: A New Tool for Forensic Chemistry Laboratories**  
*Sandra E. Rodriguez-Cruz, PhD\**
- 9:00 a.m. - 9:30 a.m.     **36**     **Drugs of Abuse and Smuggling Techniques Used in Colombia**  
*Néstor A. Gómez Guerrero, BS\**
- 9:30 a.m. - 10:00 a.m.     **603**     **Direct Multi-Analyte Detection of Contact Residues and Metabolites in Latent Fingerprints Using SALDI-TOF-MS-MS**  
*Frederick J. Rowell, PhD\**; *John Seviour, BSc*
- 10:00 a.m. - 10:30 a.m.     **407**     **Characterization of Carbon Paper From Illicit Drug Seizures**  
*Laura Bowen, BSc*; *Claude P. Roux, PhD\**; *Philip Maynard, PhD*;  
*Juuso Huttunen, PhD*
- 10:30 a.m. - 11:00 a.m.     **Break**

# Scientific Sessions — Friday

## Phenethylamines

- 11:00 a.m. - 11:30 a.m. **559** **Global Warning: Internet Open Access to Designer Drugs and Chemical Cocktails**  
*Laura A. Ciolino, PhD\**; *Tracy L. Ranieri, BS*; *Angie S. Mohrhaus, BS*;  
*Heather A. McCauley, BS*
- 1:00 p.m. - 1:20 p.m. **147** **"Party Pills," "Legal Highs," and Drug Control Policy: The New Zealand Experience**  
*Keith R. Bedford, PhD\**
- 1:20 p.m. - 1:40 p.m. **114** **Study on Small Volume Liquid Extraction of Amphetamines**  
*Pinjia Meng, PhD\**; *Yanyan Wang*; *Dan Zhu, MS*
- 1:40 p.m. - 2:00 p.m. **505** **Effect of Chronic Amphetamine on Locomotor Activity in Dopamine D3 Receptor Deficient Mice**  
*Liping Chen, PhD\**; *Qiaofang Hou, PhD*; *Teng Chen, PhD*; *Junyan Zhu, MS*;  
*Lin Li, MS*; *Shengbin Li, PhD*
- 2:00 p.m. - 2:20 p.m. **616** **Emerging Use of Isotope Ratio Mass Spectrometry as a Tool for Discrimination of MDMA by Synthetic Route**  
*Hilary S. Buchanan, MSc\**; *Niamh Nic Daeid, PhD*; *Wolfram Meier-Augenstein, PhD*;  
*Helen F. Kemp, PhD*; *William J. Kerr, PhD*; *Michael Middleditch, PhD*
- 2:20 p.m. - 2:40 p.m. **Break**
- 2:40 p.m. - 3:00 p.m. **658** **Analysis of Designer Drugs of the Amphetamine Type by Fast Gas-Chromatography-Mass Spectrometry**  
*Dariusz Zuba\**; *Bogumiła Byrska, MSc*
- 3:00 p.m. - 3:30 p.m. **216** **Synthetic Drug and the Colombian Experience**  
*Campo Elias Vasquez\**
- 3:30 p.m. - 3:50 p.m. **583** **Methods for the Detection of Illicit Substances in Latent Fingerprints by Infrared Spectral Imaging**  
*Ping Hei Ng, BSc*; *Sarah Walker, BSc*; *Mark Tahtouh, BSc*; *Brian J. Reedy, BSc, PhD\**
- 3:50 p.m. - 4:05 p.m. **607** **Research on Tracing the Source of Drugs by Plastic Bags Analyzed by FTIR**  
*Jing Yu\**

## Engineering Sciences

Moderator: *Thomas L. Bohan, PhD, JD*  
*MTC Forensics*  
*Peaks Island, MD*

- 3:55 p.m. - 4:20 p.m. **512** **First Forensic Applications of the Dual Beam Technique SEM/FIB**  
*Gabriele M. Gorzawski\**; *Marilen I. Franke*; *Michael Gilberg*
- 4:20 p.m. - 4:35 p.m. **226** **Rupture of Cataguases Dam on March 29, 2003**  
*Alan de Oliveira Lopes\**

# Scientific Sessions — Friday

## Forensic Anthropology and Human Identification

Moderator: John A. Williams, PhD  
Anthropology & Sociology  
Western Carolina University  
Cullowhee, NC

- 8:30 a.m. - 8:50 a.m.     **195**     **Age Estimation With Limb Joint Radiographs in Living Chinese Teenagers**  
*Guangyou Zhu, MS\*; Ya-hui Wang\**
- 8:50 a.m. - 9:05 a.m.     **544**     **An Investigation Into the Individuality of Human External Ear Pattern: Its Application in the Field of Personal Identification**  
*Ruma Purkait, PhD\**
- 9:05 a.m. - 9:20 a.m.     **67**     **Anthropologic and Photographic Identification Process of Fragmented Bodies**  
*Oscar A. Plaza, MD\*; William Torres*
- 9:20 a.m. - 9:40 a.m.     **158**     **The Development of Forensic Anthropology in Albania**  
*Bardhyl Cipi, MD\*; Besim Ymaj, DrSci*
- 9:40 a.m. - 9:55 a.m.     **385**     **Gene Flow and Evolution Relationship in Ten Minority Populations of Yunnan by Using Nine Short Tandem Repeat Loci From China**  
*Kuang Wen-Jian, PhD\*; Zhang Hong-Bo, PhD; Zhang Lin-Lin, MFS; Yu Bing, PhD; LI Sheng-Bin, PhD*
- 9:55 a.m. - 10:10 a.m.     **492**     **Morphological, Chemical, and Molecular Biological Methods of Human Age Estimation**  
*Jiri Sajdok, Ing, PhD; Alexander Pilin, MD, PhD\*; Filip Auinger, Ing; Jarmila Zidkova, RNDr, PhD; Frantisek Pudil, Ing, PhD*
- 10:10 a.m. - 10:30 a.m.     **Break**
- 10:30 a.m. - 10:50 a.m.     **585**     **Research on the Walking Plantar Pressure Distribution of Young People Under Different Shoe Wearing Conditions**  
*Chengqing Tang, MS\**
- 10:50 a.m. - 11:05 a.m.     **126**     **Stature Estimation From Digital Radiographically Determined Length of Long Bones of the Upper Extremity**  
*Xiaorong Zhou, MS\*; Zhenhua Deng, MS*
- 11:05 a.m. - 11:20 a.m.     **386**     **The Character of mtDNA in the Coding Region for 12S RNA and 16S RNA of Different Races**  
*Ma Yi, PhD\*; Qingbo Liu, PhD; Ya Tuo, PhD; Linlin Zhang; Li Sheng-Bin, PhD*
- 1:30 p.m. - 1:50 p.m.     **574**     **The Research on the Relationship of Foot Pressure on Left and Right Feet of Young People Walking Normally**  
*Chengqing Tang, MS\**
- 1:50 p.m. - 2:05 p.m.     **165**     **The Sky in the Eye - Exact Determination of Year of Birth in Unidentified Corpses Using the Eye Lens**  
*Niels Lynnerup, MD, PhD\*; Henrik Kjeldsen, MSc; Steffen Heegaard, MD, DMS; Christina Jacobsen, MD; Jan Heinemeier, MSc, PhD*

# Scientific Sessions — Friday

## Forensic Biology, DNA Profiling, and Serology

Moderator: *Karolyn L. Tontarski, MS*  
*Decatur, GA*

- 8:30 a.m. - 8:50 a.m.     **272**     **Validation of Luminol as Technical Detection in Blood Stain on Different Media and Under Different Operating Environment for Forensic Science**  
*Aura Lizarazo\**
- 8:50 a.m. - 9:15 a.m.     **150**     **Elimination Databases at the Institute of Environmental Science and Research — Auckland, New Zealand**  
*Olivia J. Samson, MSC, BMLSc\**
- 9:15 a.m. - 9:35 a.m.     **667**     **A Cold Hit. . . Relatively Speaking**  
*George J. Schiro, Jr, MS\**
- 9:35 a.m. - 9:50 a.m.     **668**     **Development of Biological Resources for Pathogen Identification in Microbial Forensic Investigations**  
*Phillip C. Williamson, PhD\*; Bruce Budowle, PhD*
- 9:50 a.m. - 10:20 a.m.     **Break**

Moderator: *Anjali R. Swienton, MFS, JD*  
*SciLawForensics, Ltd.*  
*Germantown, MD*

- 10:20 a.m. - 10:35 a.m.     **105**     **The Effects of Scavenging by Native Animals on Decompositional Rates in Western Australia**  
*R. Christopher O'Brien, MFS\*; Shari Forbes, PhD; Jan Meyer, PhD; Ian Dadour, PhD*
- 10:35 a.m. - 11:10 a.m.     **163**     **The Application of Digital Imaging and Image Analysis to the Numerical Features of Hair in Forensic Hair Examinations**  
*Elizabeth M. Brooks, MApSc\*; Jan McNaught, PhD; James Robertson, PhD*
- 11:10 a.m. - 11:30 a.m.     **265**     **Morphologic Comparison Between Human and Domestic Animal Spermatozoa With the Use of Christmas Tree Coloration**  
*Aura Lizarazo\*; Johanna Martinez; Ana Rodriguez*
- 11:30 a.m. - 11:50 a.m.     **186**     **Evaluation of Reliability of STR Typing in Human Colon Carcinomas Tissues Used for Identification Purposes**  
*Li Chengtao, PhD\*; Fang Jianxin; Guo Hong; Lin Yuan; Lin Yan; Que Tingzhi; Li Li*

Moderator: *George J. Schiro, Jr, MS*  
*Acadiana Criminalistics Lab*  
*New Iberia, LA*

- 1:30 p.m. - 1:50 p.m.     **145**     **Developmental Validation of a Real-Time PCR Assay for the Quantitation of Total Human and Male DNA**  
*Curtis D. Knox, BS; Benjamin Krenke, MS; Cynthia Sprecher, BS; Nadine Nassif, MS; Melissa Schwandt, PhD\*; Doug Storts, PhD*
- 1:50 p.m. - 2:10 p.m.     **176**     **Utility of the Quantifiler® Duo DNA Quantification Kit in Forensic Case Work**  
*Maura Barbisin, PhD; Cristin E. O'Shea, BS; Lisa M. Calandro, MPH; Jaiprakash G. Shewale, PhD; Manohar R. Furtado, PhD\**
- 2:10 p.m. - 2:30 p.m.     **142**     **Validation of Two DNA Quantification Methods in Various Forensic Testing Conditions**  
*Rocio del Pilar Lizarazo Quintero\**

# Scientific Sessions — Friday

- 2:30 p.m. - 2:50 p.m.     **227**     **Different Effects of PCR Inhibitors on Multiplex STR Assays**  
*Dennis Y. Wang, PhD\**; *Julio J. Mulero, PhD*; *Lori K. Hennessy, PhD*
- 2:50 p.m. - 3:20 p.m.     **Break**
- Moderator: *Christina Mulligan*  
*Cedar Crest College*  
*Allentown, PA*
- 3:20 p.m. - 3:35 p.m.     **358**     **STR Database in the Chinese Nations From China**  
*Yang Li, PhD\**; *Gui Hong-Sheng, MS*; *Hou Qiao-Fang, PhD*; *Zhang Tian-Xiao, MS*;  
*Lai Jiang-Hua, PhD*; *Chen Teng, PhD*; *Yu Bing, PhD*; *Li Sheng-Bin, PhD*
- 3:35 p.m. - 3:40 p.m.     **408**     **Genetic Analysis and Phylogenetic Relationships of Chinese Populations Using Y-STRs**  
*Meisen Shi, PhD\**; *Di Lu, MD*; *Li Yuan, PhD*; *Lin Chang, MD*; *Xue Yang*
- 3:40 p.m. - 4:00 p.m.     **66**     **Genetic Population Analysis of 17 Y-Chromosomal STRs in Three Departments (Valle del Cauca, Cauca, and Nariño) From Southwestern Colombia**  
*Sandra J. Avila, MSc\**; *Ignacio Briceño, PhD*; *Alberto Gomez, PhD*
- 4:00 p.m. - 4:20 p.m.     **558**     **Analysis of the SE33 Hypervariable Microsatellite Locus (HumACTBP2) in Colombian Populations**  
*Manuel Paredes*; *Lilia Laverde, MSc\**
- 4:20 p.m. - 4:35 p.m.     **354**     **HLA-A, B, and DRB1 Gene Polymorphisms in Hui Ethnic Group of Ningxia Province From China**  
*Shen Chun-Mei, PhD\**; *Gao Fang, PhD*; *Wei Shu-Guang, PhD*; *Zhang Hong-Bo, PhD*;  
*Zhu Bo-Feng, PhD*; *Li Sheng-Bin, PhD*

## Forensic Entomology

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Moderator: *Neal H. Haskell, PhD*  
*Rensselaer, IN*

- 1:30 p.m. - 1:45 p.m.     **353**     **Study of Diptera Succession on Pig Carrion in an Urban Area in Malaysia**  
*Ikhwan Zakaria, MSc\**; *Johari Surin, PhD*; *Baharudin Omar, PhD*; *Edah M. Aris, MSc*
- 1:45 p.m. - 2:05 p.m.     **672**     **Two Forensic Entomology Case Studies Where Temperature Thresholds Were Used to Identify Precise and Specific Times of Insect Activity on the Victims**  
*Neal H. Haskell, PhD\**

## Forensic Pathology

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Moderator: *James G. Young, MD*  
*Wyevale, Ontario*  
*Canada*

- 9:00 a.m. - 10:00 a.m.     **22**     **The Boiling Technique: A Method for Obtaining Quality Postmortem Impressions From Deteriorating Friction Ridge Skin**  
*Aaron Uhle, MS\**; *Richard Leas*
- 10:00 a.m. - 10:30 a.m.     **Break**
- 10:30 a.m. - 10:45 a.m.     **635**     **The Banana Case – Microbial Genotyping**  
*Inge Morild, MD, PhD\**; *Rebecca Breistein*; *Haima Mylvaganam, MD*

# Scientific Sessions — Friday

- 10:45 a.m. - 10:55 a.m.      **403**      **The Time-Dependent Expressions of IL-1 $\beta$ , COX-2 and MCP-1mRNA on- Blunt Contusion Wounds of Rabbit Skins and the Research on Estimation of Wound Age in the Future**  
*Rufeng Bai, PhD\**; *Haidong Zhang, MD*; *Fengqin Zhang, MD*;  
*Lin Chang, MD*; *Dawen Mu*
- 10:55 a.m. - 11:15 a.m.      **617**      **Why Are Autopsy Rates Falling in Hong Kong?**  
*Philip S.L. Beh, MBBS, DMJ\**

## Forensic Psychiatry

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Moderator: *Daniel A. Martell, PhD*  
*Park Dietz & Associates*  
*Newport Beach, CA*

- 3:30 p.m. - 4:15 p.m.      **101**      **Study of Serial Homicide Cases in Colombia**  
*Oscar Diaz\**
- 4:15 p.m. - 4:35 p.m.      **6**      **Towards a Better Understanding of Asian Youth Gangs: Rising Epidemic Confronting Our Communities**  
*Cliff Akiyama, MA\**
- 4:35 p.m. - 4:50 p.m.      **184**      **Standard Assessment of Criminal Responsibility in the Mentally Disordered Offenders in China**  
*Weixiong Cai, MD\**
- 4:50 p.m. - 5:10 p.m.      **183**      **Civil Competence Assessment of the Mentally Disordered Involved Contract Dispute**  
*Qinting Zhang, MM\**; *Yanxia Pang\**
- 5:10 p.m. - 5:30 p.m.      **250**      **Ninety-One Cases Follow-Up Study of Mental Injury Compensation Suits**  
*Xueyi Xing, MS\**; *Changsu Ma, MS*; *Lin Chang, MS*

## International Symposium on Forensic Science Education

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*Forensic science education is key to the quality of the profession. Despite efforts to improve and accredit academic programs, many institutions have created degrees that do not serve the interests of their students. Various aspects of forensic science are unique and require additional attention by legitimate educators, such as the balancing of theory and practice. This session will address central issues in international forensic science education with invited papers by noted academics and professionals from around the world.*

Moderator: *Max M. Houck, MA*  
*West Virginia University*  
*Morgantown, WV*

- 8:30 a.m. - 9:00 a.m.      **Welcoming Remarks**  
*Max M. Houck, MA*  
*West Virginia University*  
*Morgantown, WV*
- 9:00 a.m. - 9:30 a.m.      **The Need for Practitioners in Academic Programs**  
*Lawrence A. Quarino, PhD*  
*Cedar Crest College*  
*Allentown, PA*
- 9:30 a.m. - 10:00 a.m.      **Quantitative Assessment of the Growth, and Its Affects, of Forensic Science**  
*Glen P. Jackson, PhD*  
*Ohio University*  
*Athens, OH*

# Scientific Sessions — Friday

10:00 a.m. - 10:30 a.m.	<b>Break</b>
10:30 a.m. - 11:00 a.m.	<b>Educational Developments in Forensic Medicine in the United Kingdom</b> <i>Jan F. Wall</i> <i>Clinical Forensic &amp; Legal Medicine</i> <i>The Royal Society of Medicine</i> <i>London, United Kingdom</i>
11:00 a.m. - 11:30 a.m.	<b>Cold Cases and the Utilization of Forensic Science Graduate Students to Review and Evaluate Homicides</b> <i>Sarah L. Stein, MFS</i> <i>Center for the Resolution of Unresolved Crimes</i> <i>West Haven, CT</i>
11:30 a.m. - 12:00 p.m.	<b>Impression Evidence and Crime Scene Investigation: Meeting the Requirements of a B.S. Curriculum</b> <i>Keith B. Morris, PhD</i> <i>West Virginia University</i> <i>Morgantown, WV</i>
1:30 p.m. - 2:00 p.m.	<b>Undergraduate Education in Forensic Science: An International Perspective</b> <i>Sheri L. Forbes, PhD</i> <i>University Ontario Institute of Technology</i> <i>Oshawa, Ontario, Canada</i>
2:00 p.m. - 2:30 p.m.	<b>Dr. CSI: Is There a Need for a PhD in Forensic Science?</b> <i>Max M. Houck, MA</i> <i>West Virginia University</i> <i>Morgantown, WV</i>
2:30 p.m. - 3:00 p.m.	<b>Quality and Impact of Forensic Science Research – Mickey Mouse or Nobel Prize?</b> <i>Claude P. Roux, PhD</i> <i>University Technology Sydney</i> <i>New South Wales, Australia</i>
3:00 p.m. - 3:30 p.m.	<b>Break</b>
3:30 p.m. - 4:00 p.m.	<b>Closing Remarks</b> <i>Max M. Houck, MA</i> <i>West Virginia University</i> <i>Morgantown, WV</i>

## Mass Disaster Victim Identification

*Moderator: John A. Williams, PhD*  
*Anthropology & Sociology*  
*Western Carolina University*  
*Cullowhee, NC*

3:30 p.m. - 4:00 p.m.	<b>624</b>	<b>Management of Dead in Mass Disasters – South Asian Perspectives</b> <i>Clifford Priyantha Perera, MD, LLB, DMJ*</i>
4:00 p.m. - 4:15 p.m.	<b>240</b>	<b>The Airport 2007</b> <i>Petr Bendl; Alexander Pilin, MD, PhD*; Milos Sokol, MD, PhD; Pavel Zikmund, Ing</i>
4:15 p.m. - 4:30 p.m.		<b>Questions &amp; Discussion</b>

# Scientific Sessions — Friday

## Other

Moderator: *Joseph P. Bono, MA*  
*Indiana University Purdue University Indianapolis*  
*Indianapolis, IN*

- 8:30 a.m. - 9:15 a.m.      **30**      **"You Got My Maggot Upside Down!" Publication From Idea to Market**  
*Becky A. Masterman, MA\**
- 9:15 a.m. - 9:45 a.m.      **563**      **Back to Basics – Is the 21st Century Focus on Technology Over-Shadowing Good Forensic Science?**  
*Claude P. Roux, PhD\**; *James Robertson, PhD*; *Chris J. Lennard, PhD*;  
*Simon J. Walsh, MSc*
- 9:45 a.m. - 10:05 a.m.      **695**      **Applications of Mobile GC/MS and Hand-Held Air Sampling in Forensic Analysis**  
*Garth Patterson, PhD\**; *Cynthia Liu, PhD*; *John Grossenbacher, PhD*;  
*Donna Powell, BS*; *Jane Likens, BS*; *J.M. Wells, PhD*; *Dennis Barket, PhD*
- 10:05 a.m. - 10:30 a.m.      **Break**
- 10:30 a.m. - 10:45 a.m.      **489**      **Characterization of Chemical Markers of Decomposition for Geoforensics**  
*Lisa Swann, BSc*; *Shari L. Forbes, PhD\**; *Simon W. Lewis, PhD*; *Geoff Chidlow, BSc*
- 10:45 a.m. - 11:00 a.m.      **116**      **Forensic Botany: Vegetation Associated With Grave Sites in Southern Ontario**  
*Chris J. Watson, BSc\**; *Shari L. Forbes, PhD*
- 11:00 a.m. - 11:10 a.m.      **490**      **Forensic Science in the Continental and Anglo-American Systems of Law**  
*Karolina E. Kremens, LL.M.\**
- 11:10 a.m. - 11:30 a.m.      **562**      **Hydrogen Cyanide: Is it Overtaking Carbon Monoxide as the Silent Killer in Domestic Dwelling Fires?**  
*Katharine M. Grimwood, BSc\**; *Brian Reedy, PhD*
- 11:30 a.m. - 12:20 p.m.      **112**      **Childhood Interrupted**  
*Olga Lucía Barragán\**; *Francisco Javier Valencia\**; *Yolanda Clavijo Bolivar*

Moderator: *Peter R. De Forest, DCrim*  
*John Jay College/CUNY*  
*New York, NY*

- 1:30 p.m. - 1:50 p.m.      **467**      **Population Study of 17 Y-STR Loci in Colombian Caribbean Coast Population and Forensic Application**  
*Rosa E. Romero, MSc\**; *Ignacio Briceno, PhD*; *Rocio Lizarazo, MSc*;  
*Albert Gomez, PhD*
- 1:50 p.m. - 2:05 p.m.      **115**      **The Biochemical Alteration of Soil by Decomposition Products**  
*Laura A. Benninger, BSc\**; *Shari L. Forbes, PhD*; *David O. Carter, PhD*
- 2:05 p.m. - 2:20 p.m.      **198**      **The Potential Application of Grave Soil Analysis in the Determination of Post-Burial Interval**  
*Sonja L.N. O'Brien, BSc\**; *Shari L. Forbes, PhD*
- 2:20 p.m. - 2:35 p.m.      **214**      **What's Not Working Within 'What Works': Executive Cognitive Functioning Capacity of First Time Federal Offenders, Return Offenders, and Controls**  
*Erin H. Ross, MSc\**; *Jenny Neil, BA*; *Peter N.S. Hoaken, PhD*
- 2:35 p.m. - 3:00 p.m.      **701**      **The Mass Graves Investigation Team in Iraq: Challenges in Forensic Archaeology**  
*Michael K. Trimble, PhD\**; *Nancy J. Brighton, MA*

# Scientific Sessions — Friday

3:00 p.m. - 3:30 p.m.

**Break**

3:30 p.m. - 3:55 p.m.

**702**

**The Application of GIS in Forensic Archaeology: Karbala, Iraq**  
*Mark A. Smith, PhD\**

## Quality Assurance and Laboratory Management

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*Moderator: Stephanie Reilander, MA  
Centre of Forensic Sciences  
Toronto, Ontario  
Canada*

1:30 p.m. - 3:15 p.m.

**721**

**Panel Discussion: International Issues in Forensic Science Laboratory Accreditation**

*Ralph M. Keaton, Executive Director  
American Society of Crime Laboratory Directors – Laboratory Accreditation Board (United States)*

*Irma Rios, Crime Laboratory Director  
Houston Police Department (United States)*

*Edward Ngokha, Assistant Commissioner  
South African Police Service, Forensic Science Laboratory (South Africa)*

*Justice Tettey, Chief, Laboratory and Scientific Section  
United Nations Office on Drugs and Crime (Austria)*

*Zhaoming Guo  
Institute of Evidence Law and Forensic Science  
Chinese University of Political Science and Law (China)*

**481**

**The General Situation of Accreditation for Forensic Science Laboratories in China**

*Zhaoming Guo\*; Rufeng Bai*

3:15 p.m. - 3:30 p.m.

**Break**

3:30 p.m. - 4:00 p.m.

**715**

**ASCLD/LAB's Guiding Principles of Professional Responsibility**

*Kenneth E. Melson, JD\**

4:00 p.m. - 4:15 p.m.

**599**

**Proficiency Testing for Imaging and Audio Enhancement: Guidelines for Evaluation**

*Reva Schwartz, MA\*; Alice C. Thomas, MS; Joseph Campbell, PhD; Wade Shen, MS*

4:15 p.m. - 4:30 p.m.

**34**

**The Evolution of Forensic Proficiency Testing: From Science Based to Policy Driven**

*Douglas M. Lucas, DSc\*; Charles G. Leete, BA*

4:30 p.m. - 4:45 p.m.

**Questions & Discussion**

# Scientific Sessions — Friday

## Questioned Documents

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Moderators: *Peter V. Tytell, BA*  
*Forensic Research*  
*New York, NY*

*Robert J. Muehlberger, BA*  
*U.S. Postal Inspection Service*  
*Forensic Service Laboratory*  
*Dulles, VA*

- 9:00 a.m. - 9:20 a.m.     **548**     **Forensic Study of Realty Male and Female Handwriting in Egypt**  
*Elyan Abd El-Wa Hassan, BA\**
- 9:20 a.m. - 9:40 a.m.     **380**     **Characteristic Features of Handwritings and Signatures Counterfeited by Copying**  
*Dumitrescu G. Cristian\**
- 9:40 a.m. - 10:00 a.m.     **Questions & Discussion**
- 10:00 a.m. - 10:30 a.m.     **Break**
- 10:30 a.m. - 11:00 a.m.     **552**     **Evaluation of the Individuality of Handwriting Using FLASH ID™ – A Totally Automated, Language-Independent System for Handwriting Identification**  
*Mark A. Walch, MPH\*; Donald T. Gantz, PhD\*; John J. Miller, PhD; Linda J. Davis, PhD; Christopher P. Saunders, PhD; Mark J. Lancaster, PhD; Andrea Lamas, BS; JoAnn Buscaglia, PhD\**
- 11:00 a.m. - 11:30 a.m.     **Questions & Discussion**
- 1:30 p.m. - 4:30 p.m.     **525**     **An Introduction to Typography for the Forensic Document Examiner**  
*Peter V. Tytell, BA\**

## Scientific Historiography / Forensic Archaeology

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Moderator: *John A. Williams, PhD*  
*Anthropology & Sociology*  
*Western Carolina University*  
*Cullowhee, NC*

- 2:05 p.m. - 2:25 p.m.     **588**     **The Study on the Distribution Pattern of Centerline of Plantar Pressure in Walking**  
*Jiaying Dong, BS\*; Chengqing Tang, MS*
- 2:25 p.m. - 2:45 p.m.     **589**     **The Testing of the Reliability of Gait Impression Theory Through Plantar Pressure Distribution**  
*Limin Shi, BS\*; Chengqing Tang, MS*
- 2:45 p.m. - 3:00 p.m.     **323**     **The Historic and Realistic Significance of “The Washing Away of Wrongs”**  
*Xinshan Chen, MD\**

# Scientific Sessions — Friday

## Toxicology

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Moderator: *Susan Howe, DVM, PhD*  
*Tarrant County Medical Examiner's Office*  
*Fort Worth, TX*

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|------------|---|------------|------------|---|
| 9:00 a.m.  | - | 9:30 a.m.  | <b>371</b> | <b>The Introduction of Forensic Toxicokinetics</b><br><i>Keming Yun, PhD*</i>   |
| 9:30 a.m.  | - | 9:45 a.m.  | <b>248</b> | <b>Study on the Elimination Rate of Blood Alcohol and Estimation of Blood Alcohol Concentration for the Chinese Population</b><br><i>Xianyi Zhuo*</i>                 |
| 9:45 a.m.  | - | 10:00 a.m. | <b>400</b> | <b>Study on the Postmortem Redistribution of Lidocaine in Anesthesia Accident Death Dogs</b><br><i>Zhiwen Wei, MS*; Keming Yun, MD</i>                                |
| 10:00 a.m. | - | 10:30 a.m. |            | <b>Break</b>  |
| 10:30 a.m. | - | 10:45 a.m. | <b>471</b> | <b>Why Do We Need Environmental Toxicology Studies?</b><br><i>Mete K. Gulman, MD*; Salim Y. Inan, MD</i>  |
| 10:45 a.m. | - | 11:00 a.m. | <b>511</b> | <b>Importance of Hair Analysis for Cukurova Region</b><br><i>Dilek Battal, MD; Mete K. Gulman, MD*; Ahmet Hilal, MD</i>   |
| 11:00 a.m. | - | 11:20 a.m. | <b>526</b> | <b>Implications of Oral Fluid Testing in DUID Cases</b><br><i>Jeffrey P. Walterscheid, PhD*; Terry J. Danielson, PhD; Ashraf Mozayani, PhD; Luis A. Sanchez, MD</i>   |
| 11:20 a.m. | - | 11:40 a.m. | <b>232</b> | <b>LC-MS-MS Analysis of Aconite Alkaloids in a Fatal Poisoning Case</b><br><i>Wei Liu, BS*; Min Shen</i>  |
| 11:40 a.m. | - | 11:50 a.m. | <b>364</b> | <b>Multi Target Screening for &gt;600 Drugs by Qtrap LC-MS-MS and Library Searching</b><br><i>Sebastian Dresen, Ing; Nerea Ferreiros, PhD*; Wolfgang Weinmann, MD</i> |
| 11:50 a.m. | - | 12:00 p.m. |            | <b>Questions &amp; Discussion</b>   |

## Traffic Medicine

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Moderator: *Ian F. Wall, DMJ, DO*  
*Royal Society of Medicine*  
*London, United Kingdom*

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|-----------|---|-----------|------------|--|
| 4:35 p.m. | - | 4:55 p.m. | <b>13</b>  | <b>Forensic Examiner Appraisal Evidence of Traffic Trauma</b><br><i>Jai Congxian*</i>  |
| 4:55 p.m. | - | 5:10 p.m. | <b>217</b> | <b>The Injuries Caused by the Seat Belts Through the Deformation of the Seats</b><br><i>Yoshihiro Motomiya*; Tatsuya Ishibashi</i> |

# Scientific Sessions — Friday

## Victims of Torture and Genocide

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Moderator: *Nizam Peerwani, MD*  
*Tarrant County Medical Examiner's Office*  
*Fort Worth, TX*

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|------------|---|------------|------------|---|
| 8:30 a.m.  | - | 8:45 a.m.  | <b>596</b> | <b>Bankart Lesion After Suspension Torture</b><br><i>Sebnem R. Korur-Fincanci, MD*</i> ; <i>Oguzhan Ekizoglu, MD</i> ; <i>Kerem Bilsel, MD</i>                                    |
| 8:45 a.m.  | - | 9:00 a.m.  | <b>598</b> | <b>Estimation of Wound Age in Falanga Torture</b><br><i>Sebnem Korur-Fincanci, MD*</i> ; <i>Oguzhan Ekizoglu, MD</i> ; <i>Gurcan Altun, MD</i> ;<br><i>Gulay Durmus-Altun, MD</i> |
| 9:00 a.m.  | - | 9:30 a.m.  | <b>626</b> | <b>Impact of Istanbul Protocol on Improving Documentation of Torture – Sri Lankan Experience</b><br><i>Clifford Priyantha Perera, MD, LLB, DMJ*</i> ; <i>Alice Verghese</i>       |
| 9:30 a.m.  | - | 10:00 a.m. | <b>509</b> | <b>Investigative and Forensic Approach to Enforced Disappearance in Colombia</b><br><i>Jacqueline Rodriguez*</i>  |
| 10:00 a.m. | - | 10:30 a.m. |            | <b>Break</b>  |
| 10:30 a.m. | - | 11:15 a.m. | <b>718</b> | <b>A Global Perspective on Human Rights' Investigation</b><br><i>Nizam Peerwani, MD*</i>  |
| 11:15 a.m. | - | 11:35 a.m. | <b>477</b> | <b>Rwandan Genocide 1994 – A Case Including Crime Scene Investigation, Autopsies, and Clinical Forensic Medicine in 2006</b><br><i>Steen H. Hansen, MD*</i>                       |
| 11:35 a.m. | - | 12:05 p.m. | <b>693</b> | <b>The Role of Forensic Experts in the Prevention of Torture and Inhuman or Degrading Treatments</b><br><i>Stan Cristian*</i>   |