# **2018 DVD Table of Contents**

## DISC 1

- In Memorium AFTE Sickness & Distress Committee
- Keynote: Bone Imprints as Evidence in Homicide Investigations Dr. Douglas W. Owsley
- AFTE 2019 Announcement Ryan Kent
- OSAC Update Todd Weller
- Update on Academy Standards Board Firearms and Tool Mark Consensus Body -Greg Laskowski
- The "Lipstick" Round: An Evaluation of Total Synthetic Jacketed Bullets; A New Lead-free Primer and Their Effects on Firearms Identification Nathan Von Rentzell
- What's New in Ammunition George Kass
- Distance Determinations Using Quantofix Nitrite Sheets Jill Kurzenberger
- Seventy Year-Old Prototype of Sub-Machine Gun with Unusual Mechanism Paul Giverts
- Subclass Characteristics on Fired Bullets Omar Felix

#### DISC 2

- Two Bullets, One Gunshot Wound, The Limited Universe, and Squibs Michael Haag
- Recent Advances in Virtual Microscopy Dr. Ryan Lilien
- The Influence of Different Acquisition Methods on 3D Surface Measurements of Bullet Striations Martin Baiker-Sorensen
- Validation of Automatic Matching of Bullet Striation Marks Heike Hofmann
- Firearm and Toolmark Identification Hypothesis Testing and Validation Ron Nichols
- Invitation to Participate in a Forensic Science Study Stephanie Madon
- Proof of Fire / Force of Fire Chamber Marks in Semi-Automatics Jaco M. Swanepoel
- Bullet Deflection through Soft Tissue Simulants Erwin Mattijssen
- Talking Bullets Luke Haag
- Evaluation of Tissue Simulants through CT Scanning in Wound Ballistics Nick Tsiatis
- The Murder of a Schoolmarm: An Historic Shooting Incident Reconstruction -Alexander Jason

### DISC 3

- A Gun Too Far: A Shooting Incident Reconstruction Alexander Jason
- Correlation of the Victim's Wounds and Impact Sites by Energy Evaluation Axel Manthai
- Case Study The Forensic Analysis of a 3D Printed Firearm Benjamin Sampson
- Imada DS2-44 Digital Force Gauge: Trigger Pull Measurements and Associated Uncertainty of Measurement Cary Alvarez Bacha

- Determining the Angle of Impact from the Analysis of Bullets Following Perforation of Glass - Roger Jeffreys
- A Two-Step Approach to Assess Weight of Evidence in Firearm and Toolmark Examinations Alicia Carriquiry
- New Bullet and Cartridge Case 3D Measurements Tools Dr. Cristina Cadevall
- Suicide or Homicide? That is the Question Zach Kotas
- Objective Bullet Identification Dr. Danny Roberge
- An Evaluation of Recent Daubert / Frye / PCAST Challenges to Firearm and Tool Mark Identification: An Update James Hamby
- A Re-Examination of Open Case Files in China Zhifei Zhou

#### DISC 4

- Audio & Visual Analysis in a German Attempted Murder Case Dr. Jan Eckert
- Proposed Congruent Matching Features (CMF) Method for Ballistics Identification with Sub-Class Characteristics John Song
- Finite Element Modeling and Analysis of Breech Face and Firing Pin Impressions James Hamilton
- The Persistence of Firearm Residues After Being Subjected to Influencing Factors
  Angus Newton
- The Effect of Primer Hardness on IBIS Correlation Scores Eric Law
- A Penny for Your Thoughts: Jennings Firearm Strategically Operated with a Penny
  Shaun Jaikissoon
- Fracture Examination Research and Generalization of Examinations John R.
  Vanderkolk
- Objective Comparison of Striated Toolmarks from Ten Consecutively Manufactured Cold Chisels - Robert M. Thompson
- An Evaluation of Test Materials for Knife Marks on Cartilage Brian Smelser
- The SAAMI/ANSI Firearm Drop Test Mat, Process, Protocol and Procurement -Randy G. Bimson