2014 DVD Table of Contents

Disc 1

In Memoriam
AFTE 2014 Keynote Speaker
Jeff Baird, King County Prosecutor's Office

The Effects of Frangible Ammunition on the Structure of Striae Created by a Rifled Barrel and the Value of Frangible Ammunition for Examination
Mindy Raines, Scottsdale Police Department

The Supreme Court and Forensic Science
Carey Hall, Minnesota Bureau of Criminal Apprehension

A Review of How the Physical Properties of Glass Explain the Shapes of Bullet Holes
Robert Caunt, Vancouver Police Department

Gunshot Cases I Have Known and Loved
Dr. Aldo Fusaro, King County Medical Examiner's Office

An Examination of Recent Mass Shooting Reconstructions Accomplished by the FBI Laboratory’s Firearms/Tool Marks Unit
Erich Smith, Federal Bureau of Investigation

Tool Marks Identification on Sawed-Off Shotgun Plastic Wads
Dr. Danny Roberge, Forensic Technology, Inc.

Tissue Simulants: A Dangerous Fallacy
David Andrew, Flinders University

Blind Study Comparison of Virtual Marks to Toolmarks
Ryan Spotts, Iowa State University

Disc 2

SWGGUN - Updates and Current Projects
Andy Smith, San Francisco Police Department
Overview of the NIST Process Towards the Establishment of the Scientific Area Committees
Susan Ballou, National Institute of Standards and Technology (NIST)

Comparison of EvoFinder to FTI IBIS Heritage
Alex Taflya, Contra Costa County Sheriff's Office

A Shot in the Yard: Shooting Reconstruction
Alexander Jason, ANITE Group

Mis-Adventures in Metallurgy: Case Examples, Guns & Ammo
Frederick Schmidt, Engineering Systems, Inc.
Dana Medlin, Engineering Systems, Inc.

The Glock Marking Barrel
Stephen Deady, New Jersey State Police

Subclass Characteristics of Ruger Hammer Forged Barrels
James Hall, Illinois State Police

Establishing a Reference Ballistic Tool Mark Database for Research and Development of Identification Systems and Confidence Limits
Xiaoyu Alan Zheng, National Institute of Standards and Technology (NIST)

Quantitative Comparison of Striated Tool Marks
Martin Biaker, Netherlands Forensic Institute

Disc 3

Error Rates and Random Match Probabilities Based on the 10-Barrel Test and the GLOCK Cartridge Cases Test
Jim Hamby, International Forensic Science Laboratory & Training Centre
Nicholas D.K. Petraco, John Jay College

The Long .40 S&W Casing
Julie Knapp, Colorado Bureau of Investigation

The Gun That Really Won the West
Luke Haag, Forensic Science Services

Experimental Studies Into the Behaviour of Gunshot Residue and the Implications for Evidence Interpretation
Michaela Regan, University College London

1260 Smith & Wesson M&P9 Pistols Inter-Compared Using MatchPoint: An Evaluation of the Science of Firearm and Tool Mark Identification
Jay Stuart, Albuquerque Police Department
Mike Haag, Albuquerque Police Department

Complying with Measurement Uncertainty Standards for Accreditation in the Firearms Unit - a Canadian Example
Christina Telizyn, Centre of Forensic Sciences
Five Common Gripping Tools Defined by the Class Characteristics They Produce
John O'Neil, Independent Consultant

East German Makarovs: From Cops to Criminals
Daniel Malheiro, Metropolitan Police Service/New Scotland Yard

The Effect of High Velocity and Low Bullet Weight on Land and Groove Measurements
Stuart Jacobson, Idaho State Police Forensic Services

Case Report - Verger Killed in Church
Dr. Jan F. Eckert, Bundeskriminalamt

Disc 4

Progress Towards a Novel 3D-Topography Imaging and Analysis System for Firearm Identification, TopMatch-GS, and Results of a Large Scale Study
Ryan Lillian, Cadre Research

NIST FMC Project Final Report - Establish the "NIST Ballistics Identification System (NBIS)" and the "National Ballistics Evidence Search Engine (NBESE)"
John Song, National Institute of Standards and Technology (NIST)

Validating an Automated Pre-Screening System by Use of Large Databases
Jan De Ceuster, Naionaal Instituut voor Criminalistiek en Criminologie

Stabilized Relative Frequencies of Random Striae and Their Contribution to Firearm Individualization: An Empirical Study Using 625 Beretta model F/FS Semi-automatic Pistols
Srinivasan Rathinam, Los Angeles Police Department

The Role of 'Consecutiveness' in Pattern Definition
Srinivasan Rathinam, Los Angeles Police Department

Microscopic Comparisons Utilizing 3D Technology
Thomas Matsudaira, Orange County Crime Laboratory

An Error Rate Study for Examinations of Fired Cartridge Cases
Dr. David Baldwin, Midwest Forensics Resource Center

NIBIN - A Crime Gun Intelligence Perspective
Ron Nichols, Bureau of Alcohol, Tobacco and Firearms