



RECEIVED  
OFFICE OF THE  
MAYOR  
DISTRICT OF COLUMBIA

**MURIEL BOWSER**  
MAYOR

The Honorable Phil Mendelson  
Chairman  
Council of the District of Columbia  
John A. Wilson Building  
1350 Pennsylvania Avenue, NW, Suite 504  
Washington, DC 20004

Dear Chairman Mendelson:

In accordance with section 2 of the Confirmation Act of 1978, effective March 3, 1979, (D.C. Law 2-142; D.C. Official Code § 1-523.01), and pursuant to section 12 of the Department of Forensic Sciences Establishment Act of 2011, approved August 17, 2011, (D.C. Law 19-18; D.C. Official Code § 5-1501.11), which established the Science Advisory Board, I am pleased to nominate the following individual:

Mr. Robert Thompson  
5891 Clermont Dr.  
Alexandria, Virginia 22310

for reappointment as a forensic scientist member of the Science Advisory Board for a term to end November 26, 2021.

Enclosed, you will find biographical information detailing the experience of the above-mentioned nominee, along with a proposed resolution to assist the Council during the confirmation process.

I would appreciate the Council's earliest consideration of this nomination for confirmation. Please do not hesitate to contact me, or Steven Walker, Director, Mayor's Office of Talent and Appointments, should the Council require additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Muriel Bowser".

Muriel Bowser



Chairman Phil Mendelson  
at the request of the Mayor

A PROPOSED RESOLUTION

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IN THE COUNCIL OF THE DISTRICT OF COLUMBIA

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Chairman Phil Mendelson, at the request of the Mayor, introduced the following resolution which was referred to the Committee on \_\_\_\_\_.

To confirm the reappointment of Mr. Robert Thompson as a forensic scientist member of the Science Advisory Board.

RESOLVED, BY COUNCIL OF THE DISTRICT OF COLUMBIA, That this resolution may be cited as the "Science Advisory Board Robert Thompson Confirmation Resolution of 2018".

Sec. 2. The Council of the District of Columbia confirms the reappointment of:

Mr. Robert Thompson  
5891 Clermont Dr.  
Alexandria, Virginia 22310

as a forensic scientist member of the Science Advisory Board, established by section 12 of the Department of Forensic Sciences Establishment Act of 2011, approved August 17, 2011, (D.C. Law 19-18; D.C. Official Code § 5-1501.11), for a term to end November 26, 2021.

Sec. 3. The Council of the District of Columbia shall transmit a copy of this resolution, upon its adoption, to the nominee and to the Office of the Mayor.

Sec. 4. This resolution shall take effect immediately.

# CURRICULUM VITAE

## Robert Merlyn Thompson

### EDUCATION

- 2017 Master of Forensic Sciences; The George Washington University;  
Washington, D.C.
- 1979 B.S. Degree, Forensic Science Major with Chemistry Minor; California State University,  
Sacramento, California
- 1975 A.A. Degree, General Science; Solano Community College, Suisun, California

### EMPLOYMENT

- 04/14 to Current Senior Forensic Science Research Manager; Special Programs Office;  
National Institute of Standards and Technology
- 09/08 to 04/14 Program Manager - Forensic Data Systems; Law Enforcement Standards Office;  
National Institute of Standards and Technology
- 10/94 to 09/08 Senior Firearms and Toolmark Examiner; Bureau of Alcohol, Tobacco, Firearms &  
Explosives
- 07/93 to 10/94 Forensic Scientist - Consultant; Robert M. Thompson, P.C.;  
Portland, Oregon
- 01/92 to 07/93 Forensic Supervisor; GeneLex Corporation;  
Seattle, Washington
- 1985 to 1991 Criminalist; Oregon State Police Crime Laboratory;  
Portland, Oregon
- 1980 to 1985 Criminalistics Technologist; Washoe County Sheriff's Crime Laboratory;  
Reno, Nevada
- 1979 to 1980 Graduate Student Research Assistant; California Department of Justice  
Crime Laboratory; Sacramento, California

## **CURRICULUM VITAE Robert Merlyn Thompson**

### **TRAINING**

2017 SHOT Show; Las Vegas, Nevada

American Academy of Forensic Sciences Training Conference; New Orleans, Louisiana;  
“Shooting Reconstruction” by Pete Diaczuk, Jack Hietpas, Peter DeForest, and Andrew Winter

2017 International Forensic Science Error Management Symposium, NIST Gaithersburg,  
Maryland; Moderator for Plenary Sessions

2016 American Academy of Forensic Sciences Training Conference; Las Vegas, Nevada;  
“On the Leading Edge of Forensic Science” by Chair: Zeno Geradts

Association of Firearm and Toolmark Examiners Training Conference (AFTE); New Orleans,  
Louisiana; “Objective Acquisition & Comparison of 3D Striated Tool Mark and Bullet Data” by  
Martin Baiker & Rene Pieterman (NFI), Daniel Grossmann & Brad Etter (Alicona)

International Association for Identification (IAI) Training Conference; Cincinnati, Ohio;  
“Using High Dynamic Range (HDR) and Panoramic Photography in Forensic Investigations” by  
King C. Brown, M. Dawn Watkins, & Owen M. McDonnell, Jr.

Forensics@NIST 2016; Gaithersburg, Maryland

2015 SHOT Show; Las Vegas, Nevada

American Academy of Forensic Sciences Training Conference; Orlando, Florida;  
“Implementing and Evaluating 3D Technology in a 2D World”; by Heather Seubert and Paula  
Wulff

“Cognitive Bias Issues in the Forensic Analysis of Pattern and Impression Evidence and in  
Medicolegal Evaluations”; by Andrew Sulner and Barry Scheck

Association of Firearm and Toolmark Examiners Training Conference (AFTE); Dallas, Texas;  
“Springfield Armory Course – XD/XDM” by Fred Yates  
“Double Casting”; by Paul Murphy

International Symposium on Forensic Science Error Management – Detection, Measurement  
and Mitigation”; Technical Program Chairperson

International Association for Identification (IAI) Training Conference, Sacramento, California

National Institute of Justice Impression Pattern and Trace Evidence Symposium; San Antonio,  
Texas; “Probability and Statistics” by Steve Lund and Hari Iyer

## **CURRICULUM VITAE Robert Merlyn Thompson**

### **TRAINING cont.**

- 2014 American Academy of Forensic Sciences Training Conference; Seattle, Washington
- California Association of Criminalists (CAC) Training Conference; San Diego, California;  
“Particle Combination Analysis; Very Small Particles on the Surfaces of Carpet Fibers Acting as Multiple Transfer Evidence”; by Dr. David Stoney  
“Practical Applications of UV, Visible, and IR Lighting at the Crime Scene and in the Laboratory”; by Owen Lang, Foster & Freeman USA, Inc.
- European Network of Forensic Science Institutes Firearm and GSR Working Group (ENFSI FA-GSR) & The Chartered Society of Forensic Sciences; Leeds, England;  
“The Likelihood Ratio Approach in Cartridge Case and Bullet Comparison”; by Wim Kerkhoff and Rob Hermsen and “How to Tackle Subclass Characteristics in Fired Cartridge Cases”; by Beta Tam
- Forensics@NIST 2014; Gaithersburg, Maryland
- 2013 SHOT Show; Las Vegas, Nevada
- ANSI/NIST-ITL Standard 2013; Gaithersburg, Maryland
- American Academy of Forensic Sciences Training Conference; Washington, D.C.
- DNA Analyst Training on Mixture Interpretation; NIST; Gaithersburg, Maryland
- Emerging Trends in Synthetic Drugs; NIST; Gaithersburg, Maryland
- California Association of Criminalists (CAC) Training Conference; Pasadena, California; “Injury Biomechanics” by Dr. David Raymond & Dr. Cynthia Bir
- Measurement Science and Standards in Forensic Handwriting Analysis; NIST; Gaithersburg, Maryland
- Association of Firearm and Toolmark Examiners Training Conference (AFTE); Albuquerque, New Mexico
- International Association for Identification (IAI) Training Conference; Providence, Rhode Island
- European Network of Forensic Science Institutes Firearm and GSR Working Group (ENFSI FA-GSR); Riga, Latvia; “Involuntary Firearm Discharges” & “Ammunition Identification and CartWinPro”

## **CURRICULUM VITAE Robert Merlyn Thompson**

### **TRAINING cont.**

2012 American Academy of Forensic Sciences Training Conference; Atlanta, Georgia;  
“Preparation and Strategic Planning for Accreditation of Forensic Laboratories based on the ISO/IEC 17025 International Standard” by Laurel Farrell, Terry Mills III, et al.  
and “Applications of 2D and 3D Geometric Morphometrics in Forensic Comparisons” by Zeno Geradts, Victor Weedn, et al.

SHOT Show; Las Vegas, Nevada; “Minimizing the Lethal in Your Less Lethal Program”  
and “Dynamic and Important Issues of Handgun Retention”

European Network of Forensic Science Institutes Firearm and GSR Working Group (ENFSI FA-GSR); Saint Petersburg, Russia; “Training and Further Education of Firearm Experts”

Association of Firearm and Toolmark Examiners Training Conference; Buffalo, New York;  
“Colt AR-15 Rifle Armorer’s Course”; “Ontario Knife Co. /Queen Cutlery Co., Ka-Bar Knives/Cutco Cutlery, W.R Case & Sons Cutlery Company Technical Tours”

Measurement Science and Standards in Forensic Firearms Analysis 2012; National Institute of Standards & Technology (NIST); Gaithersburg, Maryland

International Association for Identification (IAI) Training Conference; Phoenix, Arizona;  
“Demystifying Error Rates” by Glenn Langenburg

2012 Impression and Pattern Evidence Symposium; National Institute of Justice; Clearwater, Florida;  
“Firearms Admissibility” by Dan Gunnell, Andy Smith, Todd Weller, and Doug Murphy

Northwest Association of Forensic Scientists (NWAFFS) Training Conference; Missoula, Montana; “Temperature of Ejected Cartridge Cases” Special Research Workshop; “Forensic Evaluation of Long Range Ballistics” by Matthew Noedel

California Association of Criminalists (CAC) Training Conference; San Jose, California; “Fire Debris” by John DeHaan & Wayne Moorehead; “Improvised Explosive Device” by John Jermain, Kelly Beadle, & Rob Born

Forensics@NIST 2012; Gaithersburg, Maryland

## **CURRICULUM VITAE Robert Merlyn Thompson**

### **TRAINING cont.**

- 2011 American Academy of Forensic Sciences Training Conference; Chicago, Illinois;  
“Method validation & Estimating Uncertainty”; by Terry Mills, Robert J. Ollis;  
“DNA Mixture Analysis: Principles and Practices of Mixture Interpretation and Statistical Analysis Using the SWGDAM STR Interpretation Guidelines” by John Butler, Michael Coble, Michael Adamowicz, Joanne Sgueglia, Todd Bille, Jennifer Gombos and Ray Wickenheiser
- Association of Firearm and Toolmark Examiners Training Conference; Chicago, Illinois
- Technical Tour, United States Mint; Philadelphia, Pennsylvania
- International Association for Identification Training Conference; Milwaukee, Wisconsin;  
“Overview of Forensic Footwear Impression Evidence” by William Bodziak
- 19<sup>th</sup> International Association of Forensic Sciences (IAFS) World Meeting; Madeira, Portugal
- Northwest Association of Forensic Scientists (NWAFS) Training Conference; Tacoma, Washington; “The Forensic Considerations of Ammunition Reloading”; by James Krylo and Matthew Noedel
- European Network of Forensic Science Institutes Firearm and GSR Working Group (ENFSI FA-GSR); Lisbon Portugal; “European Trends and Types of Converted Firearms”
- 2010 American Academy of Forensic Sciences Training Conference; Seattle, Washington; “Tools for Controlling Cognitive Biases in Casework”; by Kerstin Gleim and Chesterine Cwiklik; AAFS, Seattle, Washington
- California Association of Criminalists Spring Seminar; Fresno, California
- Association of Firearm and Toolmark Examiners Training Conference; Henderson, Nevada;  
“Contemporary Issues in Firearms Identification” by Ron Nichols and Andy Smith
- Tool Manufacture Technical Tour; Western Forge; Colorado Springs, Colorado
- International Association for Identification Training Conference; Spokane, Washington;  
“Statistics and Probabilities Made Easy” workshop by Glenn Langenburg and Cedric Neumann
- Impression and Pattern Evidence Symposium; National Institute of Justice; Clearwater Beach, Florida

## **CURRICULUM VITAE Robert Merlyn Thompson**

Northwest Association of Forensic Scientists 2010 Conference; Portland Oregon; “Forensic Examination of Airsoft Replica Arms” by Matthew Noedel

Ruler Manufacture Technical Tour; Oregon Rule Co.; Oregon City, Oregon

Leica Geosystems HDS Worldwide User Conference; San Ramon, California;

### TRAINING cont.

2010 “3D Laser Scanning for Shooting Scenes and Trajectories Workshop” by Mike Haag

Electroform Manufacture Technical Tour; GAR Electroforming Division, Electroformers, Inc.; Danbury, Connecticut

2009 American Academy of Forensic Sciences Training Conference; Denver, Colorado

“Courtroom Presentation of Evidence”; Instructor: Raymond Davis, *CourtSkills*; Office of Law Enforcement Standards, NIST Gaithersburg, Maryland

“Managing Human Error in Complex Systems: An Introduction to HFACS & HFIX”; Instructors: Dr. Scott Shappell and Dr. Doug Wiegmann; Las Vegas, Nevada

Association of Firearm and Toolmark Examiners Training Conference; Miami Beach, Florida

International Association for Identification Training Conference; Tampa, Florida

European Network of Forensic Science Institutes (ENFSI) Expert Working Group Firearms & GSR 16<sup>th</sup> Annual Meeting and Firearms Workshop; Bundeskriminalamt (BKA); Wiesbaden, Germany

2008 Technical Tour, International Cartridge Company (ICC), Reynoldsville, Pennsylvania; by Michael Hetrick, ICC Office Manager

2007 The Twenty-Ninth Annual SHOT Show; Orlando, Florida

Association of Firearms and Toolmark Examiners Eastern Regional Firearms Training Conference; “Daubert Admissibility Issues and Preparation Elements for the Toolmark Examiner” by ATF Firearms and Toolmark Examiner Gregory Klees; ATF Forensic Science Laboratory, Ammendale, Maryland

2005 Association of Firearms and Toolmark Examiners Training Seminar, Indianapolis, Indiana

2004 ATF National Firearm Examiner Academy; New England Firearm Manufacturers Technical Tour; Sturm Ruger, Burbak Plastics, SigArms, Marlin, Mossberg, Smith and Wesson, Springfield Armory Museum, and Savage Arms

2003 American Association of Forensic Scientists Conference; Chicago, Illinois



## **CURRICULUM VITAE Robert Merlyn Thompson**

Association of Firearms and Toolmark Examiners Training Seminar, Philadelphia, Pennsylvania

Northwest Association of Forensic Scientists / California Association of Criminalists Conference;  
Reno, Nevada; "Ricochet Workshop" by Lucien Haag

### TRAINING cont.

2002 SHOT Show 2002, Las Vegas, Nevada

Association of Firearms and Toolmark Examiners Training Seminar, San Antonio, Texas

ATF National Firearms Examiner Academy New England Gun Manufacturers Technical Tour;  
Drill Masters, H&R 1871, Kahr Arms, Winchester/US Repeating Arms, Charter Arms, Colt, United  
States Revolver, and Connecticut Shotguns

Association of Firearms and Toolmark Examiners Training Seminar, St. Louis, Missouri

2001 Association of Firearms and Toolmark Examiners Training Seminar, Newport Beach, California;  
"Criteria for Identification Workshop"

2000 SHOT Show 2000, Las Vegas, Nevada

1999 International Association of Forensic Sciences 15th Triennial Meeting, University of California,  
Los Angeles; "Quality Measures in Criminalistics and Assessment of Work Product", workshop  
instructed by Louis A. Maucieri, and "Serial Homicide – Anthropological Techniques in the  
Recovery of Evidence and Analysis of Victims", workshop instructed by Judy Suchey, Deborah  
Gray, Steven Dowell and Craig Harvey, also was Co-Chairman for the Firearms and Toolmark  
Section

Association of Firearms and Toolmark Examiners Training Seminar, Williamsburg, Virginia;  
"Objective Criteria Workshop" by Torrey Johnson

Firearm Manufacturer Technical Tour of "Olympic Arms, Incorporated", Olympia, Washington

1998 Association of Firearms and Toolmark Examiners Training Seminar, Tampa, Florida; and  
"Reloading Course" by Gaylen Warren

The Twentieth Annual SHOT Show; Las Vegas, Nevada

IBIS "Next Generation" Upgrade Training, by Andrew Boyle, Forensic Technology, Inc.; ATF San  
Francisco Laboratory Center, Walnut Creek, California

ATF Firearms Workshop, by Rich Turner ATF/FTB, on the identification of domestic and foreign  
made firearms, conversion of semi-automatic firearms to machineguns;  
Introduction to Digital Imaging, by Verlin Cross, National Fish and Wildlife Laboratory

## **CURRICULUM VITAE Robert Merlyn Thompson**

Northwest Association of Forensic Scientists Spring 1998 Meeting; Portland Oregon

### TRAINING cont.

1997 The Nineteenth Annual SHOT Show; Las Vegas, Nevada

Technical Tours of "Cooper Arms" firearms manufacturer, Stevensville, Montana and "The Hunting Shack" ammunition manufacturer, Missoula, Montana

Colt Armorer's School, M-16/AR-15 rifles by Mr. Miles Dodonna, Chief Instructor, Colt, Northwest Association of Forensic Scientists Spring 1997 Meeting; Missoula, Montana

Technical Tour of the CCI Ammunition plant (Blount), Lewiston, Idaho

Contemporary Issues in Forensic Firearms Identification Seminar; Co-hosted by the American Academy of Forensic Sciences, and the Association of Firearms and Toolmark Examiners; University of California, Los Angeles (UCLA)

Courtroom Testimony for Laboratory Personnel; Bureau of Alcohol, Tobacco and Firearms National Laboratory Center; Steve Feaga, Pat Lancaster, and Mary Lou Fultz; Rockville, Maryland

Technical Tours of the MAST Technology and Eldorado/PMC Cartridge Companies in Las Vegas, and Boulder City, Nevada

Firearms Workshop on Semi to Full Automatic conversions to machine guns, by ATF/FTB Rich Turner; NWAFFS/CAT/SWAFS/SAT combined meeting, Fall 1997; Las Vegas, Nevada

1996 Forensic Airgun Workshop, by Robert D. Beeman, Ph.D., Firearms Symposium, Northwest Association of Forensic Scientists Meeting; Spokane, Washington

Association of Firearms and Toolmark Examiners Training Seminar; Milwaukee, Wisconsin, and: Nunnemacher Historical Firearms Collection Lecture\Tour, Milwaukee Public Museum; Harley Davidson Motorcycle Factory Tour; Obermeyer Firearms Barrels, Factory Lecture\Tour by Boots Obermeyer

Firearms Investigation Symposium; Investigation of Street Weapons and Identification of Altered Firearms, by Robert Chavez and Ellis Evans of Armorers International; Lassen Community College, Susanville, California; Workshop conducted at the combined Northwest Association of Forensic Scientists and Utah Forensic Science Association; Salt Lake City, Utah

## **CURRICULUM VITAE Robert Merlyn Thompson**

### TRAINING cont.

- 1995 Exterior Ballistics Workshop, Association of Firearm and Toolmark Examiners Training Seminar; San Diego, California
- Trace Evidence on Bullets Workshop, by Skip Palenik, Northwest Association of Forensic Scientists Meeting; Anchorage, Alaska
- Basic and Applied Wound Ballistics and Bullet Fragmentation Patterns Workshops, by Dr. Martin Fackler and Dr. Richard Stroud, Northwest Association of Forensic Scientists; Ashland, Oregon
- Toolmark Comparison Criteria, by Al Biasotti, Fred Tulleners, and John Murdock, California Criminalistics Institute, California Department of Justice
- 1994 Integrated Ballistic Identification System (IBIS) Operator Training, by Eric Walsh, Forensic Technology, Inc.; San Francisco Laboratory Center, Walnut Creek, California
- First International Conference on Wound Ballistics, International Wound Ballistics Association; Sacramento, California
- Implementation and Consequences of New DNA Technologies in the Forensic Laboratory Workshop, American Academy of Forensic Sciences; San Antonio, Texas
- 1994 The Nikon School by Steve Heiner and Mike Carrado, Nikon, Inc.; Portland, Oregon
- Bio-environmental Trace Evidence in Death Investigation by Doctor William Rodriguez, Armed Forces Institute of Pathology/Washington, D.C., Northwest Association of Forensic Scientists; Boise, Idaho
- The Second International Symposium on Forensic Aspects of DNA Analysis, FBI; Quantico, Virginia
- 1993 Smith and Wesson Armorer's School by John S. Fitzgerald, Chief Armorer, Smith and Wesson Academy, Northwest Association of Forensic Scientists; Boise, Idaho

## **CURRICULUM VITAE Robert Merlyn Thompson**

Recovery of Buried Bodies and Surface Skeletons by Lt. Gary Knowles, Oregon State Police Forensic Laboratory/ Medford, Oregon, Northwest Association of Forensic Scientists; Boise, Idaho

1992 DNA Fingerprinting, University of Washington School of Law, Continuing Education; Seattle, Washington

Polymerase Chain Reaction Workshop, Northwest Association of Forensic Scientists; Reno, Nevada

### TRAINING cont.

1991 Second International Symposium on Human Identification, Promega Corporation; Madison, Wisconsin

Bloodstain Pattern Analysis Course, Oregon State Police Academy; Monmouth, Oregon

1989 Forensic and Laboratory Application of DNA Typing Methods, FBI; Quantico, Virginia

DNA Analysis Methods, Visiting Scientist; Forensic Science Research and Training Center, FBI; Quantico, Virginia

International Symposium of Forensic Aspects of DNA Analysis, FBI; Quantico, Virginia

PCR DNA Analysis Workshop, Northwest Association of Forensic Scientists; Concord, California

First International Symposium on Human Identification, Promega Corporation; Madison, Wisconsin

1988 Isoelectric Focusing Workshop by Dr. Dale Dykes, Northwest Association of Forensic Scientists; Missoula, Montana

Molecular Biology of DNA Fingerprinting/Lecture Series by Doctor C. Maslen, Shriners Hospital for Crippled Children; Portland, Oregon

1987 Oregon State Police Recruit Academy; Camp Rilea, Oregon

1986 Biochemical Methods of Bloodstain Analysis, FBI; Quantico, Virginia

Basic Forensic Microscopy, McCrone Institute; Camp Cascade, Oregon

**CURRICULUM VITAE Robert Merlyn Thompson**

1985 Human Hair Workshop, Northwest Association of Forensic Scientists; Seattle, Washington

Statistics in Forensic Science Workshop, Northwest Association of Forensic Scientists; Seattle, Washington

1983 "IR 3000 Intoximeter" Advanced Maintenance and Instructor Certification Course, Cal Detect/Intoximeter Company; Richmond, California

Certification Class/Forensic Analyst of Alcohol, Las Vegas Metropolitan Police Crime Laboratory; Las Vegas, Nevada

TRAINING cont.

1982 Basic Forensic Serology Course, FBI; Quantico, Virginia

Hairs and Fibers Course, FBI; Quantico, Virginia

Firearms and Toolmark Seminar, California Department of Justice Crime Laboratory; Modesto, California

Forensic Chromatography Course, FBI; Quantico, Virginia

1981 Forensic Glass Examinations Course, FBI; Quantico, Virginia

OTHER TRAINING

Certification Instruction/Breath Alcohol Instruments - responsible for the certification, calibration, and maintenance of Breath Alcohol Instruments for the State of Nevada, and breath instrument certification for accuracy for the State of Oregon

## CURRICULUM VITAE Robert Merlyn Thompson

### PROFESSIONAL PRESENTATIONS

- May 2017 “Firearm Examination in the Forensic Science Laboratory- The Forensic Science, Issues & Future Developments”; Delaware Superior Court Judge's Retreat
- September 2016 “Firearms Identification in the Forensic Science Laboratory”; George Washington University Law School; Kenneth Melson, JD; invited lecturer
- “Firearms Identification in the Forensic Science Laboratory”; George Washington University; Department of Forensic Sciences; Prof. Eva Vincze; invited lecturer
- March 2016 “Firearms Identification in the Forensic Science Laboratory”; George Washington University; Department of Forensic Sciences; Dr. Victor Weedn; invited lecturer
- “Firearm Examination the Forensic Science Laboratory, the Basics of the Forensic Science & Future Developments”; University of Pennsylvania, School of Nursing; Forensic Science; Kathleen Brown, PhD & George Cronin, PhD; Invited Lecture
- February 2016 “On the leading Edge of Forensic Science, 3D Measurement Techniques for Firearm Identification”; Workshop presentation” and “Challenges in Developing Objective Interpretation Methods for Firearm and Tool Mark Examination”; American Academy of Forensic Sciences (AAFS) Annual Conference; Las Vegas, Nevada
- November 2015 “Firearms Identification in the Forensic Science Laboratory”; George Washington University; Department of Forensic Sciences; Dr. Victor Weedn; invited lecturer
- September 2015 “Firearms Identification in the Forensic Science Laboratory”; George Washington University Law School; Kenneth Melson, JD; invited lecturer

## **CURRICULUM VITAE Robert Merlyn Thompson**

- August 2015 “Dimensional Review of Scales for Forensic Photography”; International Association for Identification (IAI) Training Conference; Sacramento, California and National Institute of Justice, Impression Pattern and Trace Evidence Symposium; San Antonio, Texas
- May 2015 “Digital and Virtual Preservation of the Bullet Artifacts in the President John F. Kennedy Assassination”; Association of Firearm and Toolmark Examiners Training Conference (AFTE), Dallas, Texas
- April 2015 “Accuracy, Error, and Traceability in Measuring the Modern Crime Scene”; Leica Geosystems Regional Public Safety Conference; Consolidated Forensic Laboratory, Washington, D.C.; Invited Keynote presentation

### **PROFESSIONAL PRESENTATIONS cont.**

- March 2015 “Firearm Examination the Forensic Science Laboratory, the Basics of the Forensic Science & Future Developments”; University of Pennsylvania, School of Nursing; Forensic Science; Kathleen Brown, PhD & George Cronin, PhD; Invited Lecture
- February 2015 “Improved Congruent Matching Cells (CMC) Method for Optical Image Identification of Cartridge Cases”; American Academy of Forensic Sciences (AAFS) Annual Conference; Orlando, Florida
- December 2014 “Congruent Matching Cells (CMC) Theory and Applications in Firearm Identification”; Forensics@NIST; Gaithersburg, Maryland
- September 2014 “Vacuum/Pressure Casting Methods for Replication of Reference or Evidence Bullets”; European Network of Forensic Science Institutes Firearm and GSR Working Group (ENFSI FA-GSR) & The Chartered Society of Forensic Sciences; Leeds, England
- May Proposed “NIST Organization of Scientific Area Committees (OSAC): Input Received and 2014 Plan Development” and “Fingerprint Identification and Error Rate Estimation Based on the Congruent Matching Cell (CMC) Method” (poster) presented with Wei Chu; California Association of Criminalists (CAC) Training Conference; San Diego, California
- March 2014 “Advanced Firearms Identification Research in Forensic Science”; lectures co-presented with Alan Zheng; one-day lecture for the California Criminalistics Institute Forensic Toolmark and Firearms Examiner Academy; Sacramento, California

## **CURRICULUM VITAE Robert Merlyn Thompson**

- February 2014 “Automatic Identification of Bullet Signatures Based on Consecutive Matching Stria (CMC) Criteria” and “Tests Using the Congruent Matching Cell (CMC) Method for Optical Image Correlations of Cartridge Cases Fired from Consecutively Manufactured Pistol Slides”; American Academy of Forensic Sciences (AAFS) Annual Conference; Seattle, Washington
- “Firearms Identification in the Forensic Science Laboratory”; George Washington University; Department of Forensic Sciences; Dr. Victor Weedn; invited lecturer
- September 2013 “Initial Correlation Tests and Analysis for Cartridge Case Intensity Images Using the Congruent Matching Cells (CMC) Method”; European Network of Forensic Science Institutes Firearm and GSR Working Group (ENFSI FA-GSR); Riga, Latvia
- “Firearms Identification in the Forensic Science Laboratory”; George Washington University; Department of Forensic Sciences; Dr. Victor Weedn & GWU Law School; Kenneth Melson, JD; invited lecturer for both classes.

## **PROFESSIONAL PRESENTATIONS cont.**

- August 2013 “Identification Tests of Cartridge Case Fired from Consecutively Manufactured Pistol Slides Intensity Images Based on Congruent Matching Cells (CMC) Method” and “2D/3D Topography Comparisons of Toolmarks Generated by Consecutively Manufactured Chisels and Punches”; International Association for Identification (IAI) Training Conference; Providence, Rhode Island
- June 2013 “Initial Correlation Tests and Analysis for Cartridge Case Intensity Images Using the Congruent Matching Cells (CMC) Method”; Association of Firearms & Toolmark Examiners (AFTE) Training Conference; Albuquerque, New Mexico
- May 2013 “Initial Correlation Tests and Analysis for Cartridge Case Intensity Images Using the Congruent Matching Cells (CMC) Method” and “2D/3D Topography Comparisons of Toolmarks Generated by Consecutively Manufactured Chisels and Punches”; California Association of Criminalists (CAC) Training Conference; Pasadena, California
- April 2013 “Firearm Examination in the Forensic Science Laboratory, the Basics of the Forensic Science and Future Developments; University of Rhode Island
- January 2013 “Firearm Evidence Surface Database; an Initiative Proposal”; ANSI/NIST-ITL Standard Workshop 2013; NIST Gaithersburg, Maryland
- November 2012 “NIST Bullet SRM 2460 Replication and Validation Using and Improved Vacuum Casting Method and Potential Evidentiary Use” and “Proposed NIST Ballistics Identification System (NBIS) Based on 3D Topography Measurements on Correlation Cells”; California Association of Criminalists (CAC); San Jose, California



## **CURRICULUM VITAE Robert Merlyn Thompson**

- “Overview of Firearms Projects at NIST”, Forensics@NIST; Gaithersburg, Maryland
- September 2012 “Proposed NIST Ballistics Identification System (NBIS) based on 3D topography Measurements on Correlation Cells”; Northwest Association of Forensic Scientists (NWAFS); Missoula, Montana
- August 2012 “Mathematical Comparisons of Bullets and Casings Using 2D and 3D Topography” (Poster); Impression and Pattern Evidence Symposium; Clearwater, Florida
- July 2012 “Bullet Signature Identification Using Topographic Measurements and Correlations” Measurement Science and Standards in Forensic Firearms Analysis 2012; National Institute of Standards and Technology (NIST); Gaithersburg, Maryland
- June 2012 “NIST Bullet SRM 2460 Replication and Validation Using and Improved Vacuum Casting Method and Potential Evidentiary Use”; co-presented with Alan Zheng; Association of Firearm and Toolmark Examiners (AFTE) Training Conference; Buffalo, New York

### **PROFESSIONAL PRESENTATIONS cont.**

- June, 2012 “NIST Bullet SRM 2460 Replication and Validation Using and Improved Vacuum Casting Method and Potential Evidentiary Use”, “Training and Further Education of Firearm Experts”; European Network of Forensic Science Institutes Firearm and GSR Working Group (ENFSI FA-GSR); Saint Petersburg, Russia
- February, 2012 “Bullet and Cartridge Case Signature Identification Using Topography Measurements and Correlations: The Unification of Microscopic and Mathematical Comparisons”; American Academy of Forensic Sciences (AAFS) Annual Conference; Atlanta, Georgia
- October, 2011 “Bullet Signature Identification Using Topography Measurements and Correlations; the Unification of Microscopic and Mathematical Comparisons” and “Cartridge Case Signature Identification Using Topography Measurements and Correlations; Unification of Microscopy and Objective Statistical Methods”; 5th International Conference on Forensic Weapons Study (ICFWS); Saratov State University, Russia
- “Bullet Signature Identification Using Topography Measurements and Correlations; the Unification of Microscopy and Objective Statistical Methods” and “Cartridge Case Signature Identification Using Topography Measurements and Correlations; Unification of Microscopy and Objective Statistical Methods”; European Network of Forensic Science Institutes – Firearms and Gunshot Residue Working Group (ENFSI FA-GSR); Lisbon, Portugal

## **CURRICULUM VITAE Robert Merlyn Thompson**

September, 2011 “3D Topographic Identification of Fired Bullets and Cartridge Cases; the Unification of Microscopic and Mathematical Comparisons”; Northwest Association of Forensic Scientists (NWAFFS); Tacoma, Washington

“Bullet Signature Identification Using Topography Measurements and Correlations; the Unification of Topographic and Mathematical Comparisons” and “Cartridge Case Signature Identification Using Topography Measurements and Correlations; Unification of Microscopic and Mathematical Comparisons”; 19<sup>th</sup> International Association for Forensic Sciences (IAFS) World Meeting; Madeira, Portugal

August, 2011 “Firearm Identification 101 for Investigators and Scene Examiners”; Lecture; International Association for Identification (IAI) Training Conference; Milwaukee, Wisconsin

“Bullet and Cartridge Case Identification Using Topography Measurements and Correlations; the Unification of Microscopic and Mathematical Comparisons” National Ballistic Information Network (NIBIN) Users Congress; Chicago, Illinois

Instructor, “NIST Law Enforcement Standards Office (OLES) Firearms Safety Training”

## PROFESSIONAL PRESENTATIONS cont.

June, the Unification of Microscope and Mathematical Comparisons” and “Cartridge Case Signature Identification Using Topography Measurements and Correlations, the Unification of Microscope and Mathematical Comparisons”; Association of Firearm and Toolmark Examiners (AFTE); Chicago, Illinois

December 2010 “Forensics @ NIST” Symposium; Gaithersburg, Maryland; Moderator

October, 2010 “Geometric Accuracy Determination at Scenes and Traceability Standards”; 2010 Leica Geosystems HDS Worldwide User Conference; San Ramon, California

September, 2010 “NIST Office of Law Enforcement Standards (OLES) Forensic Science Program; an Overview of Current Research and Projects”; Northwest Association of Forensic Scientists 2010 Conference; Portland, Oregon

August, 2010 Workshop Presenter; “Standardized Test Methods and Insuring Quality in the Laboratory Relating to the Comparative Forensic Sciences” and “Analysis Reports: Do your Written Conclusions Reflect Your Testimony?” Impression and Pattern Evidence Symposium; National Institute of Justice; Clearwater Beach, Florida

July, DOD Biometrics and Forensics Science & Technology Forum; NIST/OLES

## **CURRICULUM VITAE Robert Merlyn Thompson**

2010

National Ballistic Information Network (NIBIN) Users Congress; Phoenix, Arizona;  
“A Summary Report for NIST/ATF National Ballistics Imaging Comparison (NBIC) Project”

May,  
2009 “The National Ballistics Imaging Comparison (NBIC) Project”; Association of  
Firearm and Toolmark Examiners Training Conference; Miami Beach, Florida

June,  
2008 Instructor, United States Department of Justice National Advocacy Center,  
“Forensics for Criminal Prosecutors’ Seminar”; “Firearms Identification for  
Prosecutors; the Basics of the Forensic Science and Courtroom Presentation”;  
Columbia, South Carolina

Instructor, ATF Firearm Serial Number Restoration Class; ATF Forensic Science  
Laboratory, Ammendale, Maryland

April,  
2008 Scanning 2008/NIST; “Firearms Identification 101, the Basics”, National Institute  
of Standards and Technology (NIST), Gaithersburg, Maryland

### PROFESSIONAL PRESENTATIONS cont.

March ,  
2008 Instructor, ATF Firearms Examiner Academy; ATF Forensic Science  
Laboratory; Ammendale, Maryland

January,  
Instructor, ATF Firearm Serial Number Restoration Class; Toronto Police-Provincial 2008  
Weapons Unit, Toronto, Ontario, Canada

October,  
2007 “Forensic Buddy™ Performance Testing”; Association of Firearms and Toolmark  
Examiners Eastern Regional Firearms Training Conference; ATF Forensic Science  
Laboratory, Ammendale, Maryland

August,  
Instructor, “Hitting the Mark: Focus on Gun Violence Prosecution”; Sponsored by 2007  
ATF, Bureau of Justice Assistance, and the National District Attorneys Association;  
“Firearms Identification in the Forensic Laboratory”; Denver, Colorado

June,  
Instructor, “Hitting the Mark: Focus on Gun Violence Prosecution”; Sponsored by 2007  
ATF, Bureau of Justice Assistance, and the National District Attorneys Association;  
“Firearms Identification in the Forensic Laboratory”; New Orleans, Louisiana

March,  
Instructor, ATF Firearm Serial Number Restoration Class; ATF Forensic Science

## **CURRICULUM VITAE Robert Merlyn Thompson**

2007 Laboratory; Ammendale, Maryland

Instructor, "Hitting the Mark: Focus on Gun Violence Prosecution"; Sponsored by ATF, Bureau of Justice Assistance, and the National District Attorneys Association; "Firearms Identification in the Forensic Laboratory"; Miami, Florida

January, 2007 Instructor, United States Department of Justice National Advocacy Center, "Forensics for Criminal Prosecutors' Seminar"; "Firearms Identification for Prosecutors; the Basics of the Forensic Science and Courtroom Presentation"; Columbia, South Carolina

October, 2006 Lecturer, Smithsonian Associates "You Solve the Crime", Smithsonian Educational and Cultural Programs; Washington, D.C.

September, 2006 Instructor, ATF Firearms Examiner Academy; ATF Forensic Science Laboratory; Ammendale, Maryland

February, 2006 Instructor, United States Department of Justice National Advocacy Center, "Forensics for Criminal Prosecutors' Seminar"; "Firearms Identification for Prosecutors; the Basics of the Forensic Science and Courtroom Presentation"; Columbia, South Carolina

### **PROFESSIONAL PRESENTATIONS cont.**

January, 2006 Instructor, ATF Firearm Serial Number Restoration Class; State Department and Defense Intelligence Agency; ATF Forensic Science Laboratory; Ammendale, Maryland

September, 2005 Instructor, ATF Firearm Serial Number Restoration Class; Philadelphia Police Department; Philadelphia, Pennsylvania

May, 2005 National District Attorneys Association – American Prosecutors Research Institute (NDAA-APRI) "Forensic Firearms Identification"; Tucson, Arizona

April, 2005 Project Safe Neighborhoods (PSN) "Forensic Firearms Identification and NIBIN"; Austin, Texas

March, 2005 Instructor, ATF Firearms Examiner Academy; ATF Forensic Science Laboratory; Ammendale, Maryland

## **CURRICULUM VITAE Robert Merlyn Thompson**

- January, 2005 Project Safe Neighborhoods (PSN) “Forensic Firearms Identification and NIBIN”;  
La Guardia (Brooklyn), New York
- December, 2004 National District Attorneys Association – American Prosecutors Research Institute  
(NDAA-APRI) “Forensic Firearms Identification”; Memphis, Tennessee
- November, 2004 NDAA-APRI “Forensic Firearms Identification”; Alexandria, Virginia
- August, 2004 Instructor, ATF Firearms Examiner Academy; ATF Forensic Science  
Laboratory; Ammendale, Maryland
- June, 2004 Project Safe Neighborhoods 2004 National Conference; US Department of Justice;  
Kansas City, Missouri; Instructor, “Ballistic Evidence; Bullets, Shell Casings and the  
Missing Link”
- April, 2004 State of Michigan Prosecuting Attorneys Coordinating Council, Department of  
Attorney General; Forensic Firearms Identification Evidence Regional Training; Detroit,  
Michigan; “Firearms Identification for Prosecutors, the Basics of the Forensic Science  
and Courtroom Presentation”
- George Washington University Forensic Science Department, Washington, D.C.; Criminal  
Law – Evidence; Guest Lecturer, “Forensic Science – A Perspective from Experience”

## **PROFESSIONAL PRESENTATIONS cont.**

- February, 2004 Instructor, ATF Firearms Examiner Academy; ATF Forensic Science  
Laboratory; Ammendale, Maryland
- January, 2004 Instructor, ATF Firearm Serial Number Restoration Class, Eugene Police  
Department; Eugene, Oregon
- September, 2003 Instructor, ATF Firearms Safety Training; Protocols for Test Firing Firearms for  
NIBIN Entry; Vandenberg AFB, California
- Northern California Regional NIBIN Users Meeting; Stockton, California
- August, 2003 2003 National NIBIN Coordinators Conference/NIBIN Congress; “Firearms  
Identification 101 and NIBIN”; Denver, Colorado

## **CURRICULUM VITAE Robert Merlyn Thompson**

- June, 2003 National Institute of Justice, National Institute for Standards and Technology (NIST) Standard Bullet Workshop; Largo, Florida; "Introduction and History of the Project"
- April, 2003 NIBIN Users' Congress; Ft. Lauderdale, Florida  
Northwest Association of Forensic Scientists / California Association of Criminalists Conference; Reno, Nevada; "Firearms Identification 101 and NIBIN"
- March, 2003 Northern California Regional NIBIN Users Meeting; Stockton, California
- November, 2002 South West Association of Forensic Scientists (SWAFS) Conference; Scottsdale, Arizona, Regional NIBIN Users Group Workshop  
  
NIBIN Users Congress; Washington, D.C.
- August, 2002 ATF National NIBIN Coordinator Conference; Chicago, Illinois
- June, 2002 Chief Special Agents Association of Northern California; "Firearms Identification and the ATF NIBIN Program"; Oakland, California
- May, 2002 Association of Firearms and Toolmark Examiners Training Seminar; "NIBIN Hit Defined" & "Consecutive Barrel Study Results Using the NIBIN Technology"; San Antonio, Texas
- April, 2002 Instructor, ATF Firearm Serial Number Restoration Class; Utah State Police Forensic Science Laboratory; Salt Lake City, Utah  
  
International Association for Identification, California State Division 86<sup>th</sup> Annual Training Seminar; "Firearms Examination and Processing"; Monterey, California

## **PROFESSIONAL PRESENTATIONS cont.**

- April, 2002 Coordinator and Presenter; Northern California NIBIN Users' Meeting; Laboratory Protocols and Operations" "Quality Assurance/Quality Control"; Walnut Creek, California;
- February, 2002 National Integrated Ballistics Information Network Users Group Meeting, Las Vegas, Nevada; "IBIS Laboratory Protocols"
- November, 2001 Asociacion Columbiana de Balisticos Forenses (Colombian Association of Forensic Ballistics) meeting; "The Operation of the IBIS in the United States of America", "The IBIS Operation Manual", "Firearms and Toolmark Examination and Theory of Criteria for Identification"; Bogotá, Colombia

## **CURRICULUM VITAE Robert Merlyn Thompson**

Instructor; Los Angeles Police Department, Firearms Analysis Unit; "Bullet Classification for NIBIN Entry"

September, 2001 Instructor, ATF Firearm Serial Number Restoration Class; Oregon State Police Forensic Laboratory; Springfield, Oregon

August, 2001 Instructor, ATF Firearm Serial Number Restoration Class; South West Institute of Forensic Sciences; Dallas, Texas

ATF National NIBIN Coordinator Conference; Kansas City, Missouri

July, 2001 Instructor, NIBIN Program, Firearms Identification, and Serial Number Restoration, "Operation Safe Neighborhood"; U.S. Attorney's Office; San Francisco, California

April, 2001 Instructor, Northwest Association of Forensic Scientists Meeting; "Serial Number Restoration Workshop (Magnaflux)"; Park City, Utah

September, 2000 Instructor, ATF Firearms Examiner Academy; ATF Forensic Science Laboratory; Rockville, Maryland

March, 2000 Instructor, ATF Firearm Serial Number Restoration Class; Houston Police Department Firearms Laboratory, Houston, Texas

Bay Area Law Enforcement and Security Liaison Group "Eight-Ball" Meeting, "National Ballistic Information Network"; San Francisco, California

February, 2000 Association of Official Analytical Chemists (AOAC), Pacific Southwest Chapter Annual Meeting, "Rapid Test Kits – How Do We Get This Evidence to Hold Up in Court?" Rohnert Park, California

January, 2000 California Regional IBIS Network Workshop, Moderator and Presenter, "Review of the ATF Operation and Procedure Manual", Walnut Creek, California

### **PROFESSIONAL PRESENTATIONS cont.**

October, 1999 Instructor, ATF Firearms Academy; ATF Forensic Science Laboratory; Rockville, Maryland

September, 1999 Instructor, ATF Firearm Serial Number Restoration Class; Oregon State Police Forensic Laboratory, Portland, Oregon

August, International Association of Forensic Sciences 15th Triennial Meeting,

## **CURRICULUM VITAE Robert Merlyn Thompson**

- 1999 University of California, Los Angeles; co-presenter with Ben Wilson; "Forensic Applications to Bosnian War Crimes Evidence"
- August, 1999 IBIS-International Users Group Conference; Dallas, Texas
- May, 1999 Instructor; ATF Firearm Serial Number Restoration Class; Washington State Patrol Crime Laboratory, Tacoma, Washington
- November, 1998 The International Society for Optical Engineering (SPIE), Investigation and Forensic Science Technologies, "Automated Firearms Evidence Comparison Using the Integrated Ballistic Identification System (IBIS); Boston, Massachusetts
- October, 1998 Integrated Ballistic Identification System (IBIS), Instrument Demonstration; INTERPOL, Twelfth International Forensic Science Symposium; Lyon, France
- May, 1998 IBIS-International Users Group Conference; Portland, Oregon  
"Manual versus Automatic Selection of Firing Pin Acquisition Limits; Effects on Correlation Scores Using a 9mm Luger Caliber Cartridge Casing Database"
- February, 1998 "Integrated Ballistic Identification System Performance Studies," American Academy of Forensic Sciences; San Francisco, California
- July, 1997 "Firearms, Toolmarks, and IBIS", Instructor, Idaho Prosecuting Attorneys Association Annual Summer Training Conference; Sun Valley, Idaho
- May, 1997 IBIS-International Users Group Conference; Walnut Creek, California
- April, 1997 "Firearms Identification and IBIS", Instructor for breakout sessions at the All Treasury Agents Meeting; Oakland, California

## **PROFESSIONAL PRESENTATIONS cont.**

- January, 1997 "Forensic Firearms Examination, ATF's Operation CEASEFIRE and the Integrated Ballistic Identification System," Bay Counties Peace Officers Association; San Francisco, California



## **CURRICULUM VITAE Robert Merlyn Thompson**

- September, 1996 "Integrated Ballistic Identification System (IBIS) Performance Studies; Bullets Fired from Consecutively Rifled Barrels, and Fired Cartridge Casing Correlation Results," Combined meeting of the Northwest Association of Forensic Scientists and Utah Forensic Science Association; Salt Lake City, Utah
- July, 1996 "Computerized Image Analysis for Firearms Identification; The Integrated Ballistic Identification System (IBIS) BRASSCATCHER Performance Study," Association of Firearms and Toolmark Examiners Annual Training Seminar; Milwaukee, Wisconsin
- May, 1996 IBIS-National Users Group Meeting, Walnut Creek, California
- April, 1996 "Integrated Ballistic Identification System (IBIS), BRASSCATCHER Performance Study", Firearms Symposium, Northwest Association of Forensic Scientists (NWAFFS); Spokane, Washington
- "Computerized Image Analysis for Firearm Examiners: Update on the Integrated Ballistic Identification System"; NWAFFS, Spokane, Washington
- November, 1995 "Integrated Ballistic Identification System," Bay County Identification Officer Association; Walnut Creek, California
- October, 1995 "Computerized Image Analysis for Firearms Identification; The Integrated Ballistic Identification System (IBIS) BRASSCATCHER Performance Study," Northwest Association of Forensic Scientists; Ashland, Oregon
- May, 1995 "Computerized Image Analysis for Firearms Identification; The Integrated Ballistic Identification System (IBIS)," Northwest Association of Forensic Scientists; Anchorage, Alaska, and California Association of Criminalists; Walnut Creek, California
- March, 1995 "Operation 'Ceasefire' and the Integrated Ballistic Identification System (IBIS)," California Homicide Investigators Association; San Francisco, California
- April, 1993 "DNA and a Practical Approach to Physical Evidence," International Association for Identification, Pacific Northwest Division; Tacoma, Washington

## **PROFESSIONAL PRESENTATIONS cont.**

- March, 1993 "Qualitative and Quantitative Assessment of DNA using Alpha Satellite DNA," The Second International Symposium on Forensic Aspects of DNA Analysis, FBI; Quantico, Virginia.

## **CURRICULUM VITAE Robert Merlyn Thompson**

- "DNA and a Practical Approach to Physical Evidence," Criminal Subsection of the British Columbia Branch of the Canadian Bar Association; Vancouver, B.C.
- February, 1993 "Qualitative and Quantitative Assessment of Human DNA in Forensic Specimens Utilizing the Locus D17Z1," American Academy of Forensic Sciences; Boston, Massachusetts
- October, 1992 "Nuclei Isolation by the Use of a Non-ionic Detergent as an Aid to Extracting DNA from Decomposing Tissue Samples," Northwest Association of Forensic Scientists; Portland, Oregon
- May, 1992 "The Effects of Buffer Recirculation on Mobility Distortion," Northwest Association of Forensic Scientists; Reno, Nevada
- September, 1990 "Forensic DNA Analysis: The RFLP Protocol and Validation Procedures in a Forensic DNA Laboratory," 21<sup>st</sup> Annual Institute for Prosecutors/ Advanced Prosecutors' Course; Marylhurst College, Portland, Oregon
- May, 1990 "Forensic Science Update: AFIS Fingerprint Retrieval System, ESDA Document Analysis of Indented Writing, and Forensic DNA Analysis," Oregon Criminal Defense Lawyers' Association; Sun River, Oregon
- October, 1989 "A Procedure for Collecting Trace Evidence from Hair Masses," Northwest Association of Forensic Scientists; Concord, California

## **PUBLICATIONS**

## CURRICULUM VITAE Robert Merlyn Thompson

- 2017 "Applying 3D Measurements and Computer Matching Algorithms to Two Firearm Examination Proficiency Tests", D. Ott, R. Thompson, and J. Song; *Forensic Science International*, Vol. 271 (2017), pages 98–106; <http://dx.doi.org/10.1016/j.forsciint.2016.12.014>
- "The Development and Application of Random Match Probabilities to Firearm and Toolmark Identification"; J. E. Murdock, N.D.K. Petraco, J.I. Thornton, M.T. Neel, T. J. Weller, R.M. Thompson, J.E. Hamby, and E.R. Collins; *J Forensic Sciences*, May 2017, Vol. 62, No. 3; doi: 10.1111/1556-4029.13386
- 2016 "Dimensional Review of Scales for Forensic Photography"; M. Ferrucci, T. D. Doiron, R. M. Thompson, J. P. Jones II, A. J. Freeman, and J. A. Neiman; *J. Forensic Sciences*, March 2016, Vol. 61, No. 2, pages 509-519
- 2015 "Association of Firearm and Tool Mark Examiners Certification Program Certification and Recertification Policies and Procedures – Revised"; E. Collins, D. Deskins, J. Flater, J. Marsanopoli, D. Mikko, M. Neel, and R. M. Thompson; *Association of Firearms and Toolmark Examiners Journal*, Volume 47 Number 1, Winter 2015
- "Forensic Ballistics"; R. M. Thompson; *Evidence Technology Magazine*, Jan.-Feb. 2015
- 2014 "The Second National Ballistics Imaging Comparison (NBIC-2)"; T. V. Vorburger, J. Yen, J. F. Song, R. M. Thompson, T. B. Renegar, A. Zheng, M. Tong; *Journal of Research of the National Institute of Standards and Technology*; Volume 119 (2014), pages 644-673
- "Fired Cartridge Case Identification Using Optical Images and the Congruent Matching Cells (CMC) Method"; M. Tong, J. Song, W. Chu, and R. M. Thompson; *Journal of Research of the National Institute of Standards and Technology*; Volume 119 (2014), pages 575-582
- "Applications of Surface Metrology in Firearm Identification," X. Zheng, J. Soons, T. V. Vorburger, J. Song, T. Renegar and R. Thompson, *Surf. Topogr.: Metrol. Prop.* 2 (2014) 014012.
- "2D and 3D Topography Comparisons of Toolmarks Produced from Consecutively Manufactured Chisels and Punches"; X. A. Zheng, J. Soons, R. M. Thompson, J. Villanova, and T. Kakal; *Association of Firearms and Toolmark Examiners Journal*, Vol 46, Num. 2, Spring 2014

## CURRICULUM VITAE Robert Merlyn Thompson

- 2013 Technical Report: “Dimensional Review of Scales for Forensic Photography”; M. Ferrucci, T.D. Doiron, R. M. Thompson, J.P. Jones II, S. Ballou, J. Neiman; Document No.: 243213; Award Number: 2010-DN-R-7121; US Department of Justice; National Institute for Justice Report
- “Automatic Identification of Bullet Signatures Based on Consecutive Matching Striae (CMS) Criteria” W. Chu \*, R. M. Thompson, J. Song, T.V. Vorburger; 141 *Forensic Science International*, Volume 231, Issues 1–3, 10 September 2013, Pages 137-141
- 2012 “Topography Measurements and Performance Comparisons between NIST SRM 2460 Standard Bullet Masters and BKA Bullet Replicas”; J. Song, T.V. Vorburger, R. Thompson, S. Ballou, A. Zheng, T.B. Renegar, R. Silver, M. Ols, W. Wentz, A. Koch, M. Braune, and A. Lohn; *Association of Firearms and Toolmark Examiners Journal*, Vol 44, No. 3, Summer 2012
- “Latent Print Examination and Human Factors: Improving the Practice through a Systems Approach; The Report of the Expert Working Group on Human Factors in Latent Print Analysis”; D. Kaye, T. Busey, M. Gische, et al.; *U.S. Department of Commerce, National Institute of Standards and Technology*. 2012.
- “Development of Ballistics Identification – From Image Comparison to Topography Measurement in Surface Metrology”; J. Song, W. Chu,2, T.V. Vorburger, R. Thompson, T.B. Renegar, A. Zheng, J. Yen, R. Silver and M. Ols; *Measurement Science and Technology*; 23 (2012) 054010
- “Confocal Microscopy Analysis of Breach Face Marks on Fired Cartridge Cases from 10 Consecutively Manufactured Pistol Slides”; T. Weller, A. Zheng, R. Thompson, and F. Tulleners; *J. Forensic Sciences*, (2012) doi: 10.1111/j.1556-4029.2012.02072.x
- “Establishing a Traceability and Quality System for U.S. Ballistics Identification Using NIST SRM Standard Bullets and Cartridge Cases”; Song J., Thompson R., Vorburger T.V., Ballou S., Yen J., Renegar T., Zheng A., Silver R., Ols M.; *Proceedings of Saratov University*. 2012. Vol. 12, Ser. Economic Management Law
- “Bullet Signature Identification Using Topography Measurements and Correlations, Unification of Microscopy and Objective Statistical Methods”; Thompson R., Chu W., Song J.; *Proceedings of Saratov University*. 2012. Vol. 12. Ser. Economic Management Law
- “Cartridge Case Signature Identification Using Topography Measurements and Correlations, Unification of Microscopy and Objective Statistical Methods”; Thompson R., Song J., Zheng A., Yen J.; *Proceedings of Saratov University*. 2012. Vol. 12. Ser. Economic Management Law

## CURRICULUM VITAE Robert Merlyn Thompson

- 2011 "Selecting Valid Correlation Areas for Automated Bullet Identification System Based on Striation Detection"; Chu, W., Song, J., Vorburger, T., Thompson, R., Silver, R.; *J. of Research of NIST*, 116 (3), May – June, (2011), pp.647-653.
- "The National Ballistics Imaging Comparison (NBIC) Project"; J. Song, T.V. Vorburger, S. Ballou, R.M. Thompson, J. Yen, T.B. Renegar, A. Zheng, R.M. Silver, M. Ols; *Forensic Science International* (2011); doi:10.1016/j.forsciint.2011.09.016
- 2010 "Topography measurements for correlations of standard cartridge cases," T.V. Vorburger, J. Song, W. Chu, T.B. Renegar, A. Zheng, J. Yen, R. Thompson, R. Silver, B. Bachrach, M. Ols, *Proc. SPIE 7729, 77291D* (2010); doi: 10.1117/12.859918.
- "Optimal Compression and Binarization of Signature Profiles for Automated Bullet Identification Systems," W. Chu, J. Song, T. Vorburger, R. Thompson, T. Renegar, and R. Silver, *Proc. SPIE 7729, 77291C* (2010); DOI: 10.1117/12.859858
- 2009 "NIST SRM (Standard Reference Material) 2460/2461 Standard Bullets and Casings Project," J. Song, T. Vorburger, T. Renegar, A. Zheng, R. Thompson and R. Silver, in *Proc., 4th International Conference on Forensic Weapons Study (ICFWS 2009)*, Saratov, Russia, (Oct. 2009)
- 2008 "Forensic Buddy Performance Testing Results," *Crime Scene, The Newsletter of the Northwest Association of Forensic Scientists*; 34:2, Spring 2008, pages 14 - 23
- 2003 "Firearm/Toolmark Identification: Passing the Reliability Test under Federal and State Evidentiary Standards," *Association of Firearms and Toolmark Examiners Journal*, 35:2, Spring 2003 (co-author)
- 1999 "Automated Firearms Evidence Comparison Using the Integrated Ballistic Identification System (IBIS)," *Proceedings of SPIE – The International Society for Optical Engineering*, 4576, pages 94 - 103
- 1998 "Automated Firearms Evidence Comparison: A Forensic Tool for Firearms Identification - An Update," *Journal of Forensic Sciences*, 43:3, May 1998 (Co-author)
- "Automated Firearms Identification in the Next Millennium Crime Scene," *Inside ATF*, May 1998
- 1996 "Computerized Image Analysis for Firearms Identification; The Integrated Ballistic Identification System (IBIS) BRASSCATCHER Performance Study," *Association of Firearms and Toolmark Examiners Journal*, 28:1, July 1996
- 1991 "A Preliminary Report on Binned General Population Data on Six VNTR Loci in Caucasians, Blacks, and Hispanics from the United States," *Crime Laboratory Digest*, 18:1, January, 1991, 9-11 (Co-author)

**CURRICULUM VITAE Robert Merlyn Thompson**  
**CERTIFICATIONS**

1993 American Board of Criminalistics  
Certification of Professional Competency in Criminalistics, (current)

**COURT QUALIFICATIONS**

Qualified as an Expert Witness in the States of: Nevada, Oregon, Alaska, Idaho, Delaware, California

Federal Courts in: Portland, Oregon; San Francisco, California; Los Angeles, California; Albuquerque, New Mexico; Sherman, Texas; Reno, Nevada; Martinsburg, West Virginia; Bismarck, North Dakota; Minneapolis, Minnesota; Abingdon, Virginia; Alexandria, Virginia

Expertise: Firearms Identification, Toolmark Identification, Firearms Discharge Distance Determination, Serial Number Restoration, Shoeprint Comparison, Serology, DNA Analysis, Hair and Fiber Analysis, Blood Alcohol, Controlled Substance Identification, Urine Toxicology, Crime Scene Reconstruction and Processing, Blood Spatter Pattern Analysis

**AFFILIATIONS**

Fellow (2014) - American Academy of Forensic Sciences (AAFS)

Distinguished Member - Association of Firearm and Tool Mark Examiners (AFTE)

Member - Association of Firearms and Toolmark Examiners Certification Program Committee (Past Chairman)

Active Life Member - International Association for Identification (IAI)

Member – Northwest Association of Forensic Scientists (NWAFS)

Member - California Association of Criminalists (CAC)

Member – ASTM E30 Committee; Forensic Science

Member – ANSI Technical Advisory Group; ISO/TC 272 Forensic Sciences

Associate Member – European Network of Forensic Science Institutes; Working Group on Firearms and GSR Analysis (ENFSI-FA/GSR)

Member – Technical Support Working Group, Investigative Support and Forensics Subgroup (TSWG IS&F)

## **CURRICULUM VITAE Robert Merlyn Thompson**

### AFFILIATIONS cont.

Past President - Northwest Association of Forensic Scientists

Past Chairman - Technical Advancement Committee/Northwest Association of Forensic Scientists

Past Chairman - California Association of Criminalists Northern Division; Firearms and Toolmark Examiners Study Group

Past Member – Forensic Optical Topography Working Group; NIJ/RTI Forensic Science Center of Excellence

Past Member- ATF Forensic Science Laboratory QA Review Team

Past Co-Chairman - Firearms and Toolmark Section, International Association of Forensic Sciences Conference, 1999 in University of California, Los Angeles

Past Board Member - Integrated Ballistic Identification System International Users Group (IBIS IUG), and Past Chairman - Standards and Training Committee, IBIS IUG

Past Committee Member – AFTE Advisory Committee on the National Academies’ “Ballistic Imaging Study”

Past Member - International Wound Ballistics Association (organization not active)

Past Member - Serology Committee and the Implied Consent Committee; Oregon State Police Crime Laboratory Division

## **CURRICULUM VITAE Robert Merlyn Thompson**

### **AWARDS**

- 2014 "Gold Medal Award" for Heroism with Dr. William Billotte; Department of Commerce
- 2013 "Alfred A. Biasotti Most Outstanding Presentation Award"; California Association of Criminalists; Spring 2013 CAC Seminar
- 2003 "Special Act Award" to members of the ATF NIBIN Team
- 2001 "Special Act or Service Award" to members of the ATF NIBIN Team
- 2000 "Hammer Award" to the ATF National Firearms Examiner Academy Team, from Vice President Albert Gore
- 2000 "Secretary's Certificate", Department of the Treasury Annual Awards Ceremony, ATF Firearms Examiner Academy Group Award, from Secretary Lawrence Summers
- 1997 "Hammer Award" to the Ceasefire Program Team, from Vice President Al Gore
- 1995 "Employee of the Year"; Laboratory Services; Bureau of Alcohol, Tobacco, and Firearms
- 1995 "Best Presentation by a Member"; Northwest Association of Forensic Scientists Fall Conference; Ashland, Oregon





Executive Office of the Mayor - Office of Talent and Appointments  
John A. Wilson Building | 1350 Pennsylvania Avenue, Suite 600 | Washington, DC 20004

## Robert M. Thompson



Robert M. Thompson is a Senior Forensic Science Research Manager with the Special Programs Office at the National Institute for Standards and Technology (NIST).

Mr. Thompson has over 38 years of experience as a Forensic Scientist and Criminalist. He is certified in Criminalistics by the American Board of Criminalistics (ABC) and is a past Chairman and current member of the Association of Firearm and Toolmark Examiners (AFTE) Certification Program Committee. He is a Fellow of the American Academy of Forensic Sciences and a Distinguished Member of AFTE. Mr. Thompson was a Senior Firearms and Toolmark Examiner for the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) Forensic Science Laboratories and a Forensic Scientist and Criminalist in crime laboratories with the Washoe County Sheriff's Department (Reno, Nevada), Oregon State Police, and the Genelex Corporation

Mr. Thompson received a Bachelor of Science in Forensic Science from the California State University in Sacramento, California and a Master of Forensic Sciences from The George Washington University.



GOVERNMENT OF THE DISTRICT OF COLUMBIA  
Executive Office of Mayor Muriel Bowser



Office of the General Counsel to the Mayor

**To:** Alana Intrieri, Steve Walker  
**From:** Betsy Cavendish  
**Date:** September 11, 2018  
**Subject:** Legal sufficiency review of Resolution nominating Robert Thompson to the Science Advisory Board.

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**This is to Certify** that this office has reviewed the above-referenced legislation and found it to be legally unobjectionable. If you have any questions in this regard, please do not hesitate to call me at 202-724-7681.

A handwritten signature in cursive script that reads "Elizabeth A. Cavendish".

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Elizabeth Cavendish