

Monday, June 26, 2006

Registration

7:30 am – 5:00 pm Registration and Continental Breakfast *Grand Ballroom Foyer*

Welcome and Opening Remarks

8:30 am – 9:30 am *Grand Ballroom Salons A & B*

Presenters

Glenn R. Schmitt

Acting Director
National Institute of Justice
U.S. Department of Justice
Washington, DC

Susan D. Narveson

Chief
Investigative and Forensic Sciences Division
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

Forensic DNA Research and Development: Tools for the Crime Lab I: Compromised DNA Evidence

9:30 am – 11:30 am General Session *Grand Ballroom Salons A & B*

Moderator

Lois A. Tully

Deputy Chief
Investigative and Forensic Sciences Division
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

Presenters

9:30 am – 9:50 am

Development, Characterization and Performance of New MiniSTR Loci for Typing Degraded Samples (on behalf of NIST)

Michael D. Coble

Chief of Research

Armed Forces DNA Identification Laboratory

American Registry of Pathology

Rockville, MD

9:50 am – 10:10 am

mtDNA SNPs and Control Region Databases to Increase mtDNA Utility in Forensics

Michael D. Coble

Chief of Research

Armed Forces DNA Identification Laboratory

American Registry of Pathology

Rockville, MD

10:10 am – 10:30 am

Forensic mtDNA Mixture Fractionation by Denaturing High-Performance Liquid Chromatography

Phillip B. Danielson

Associate Professor

Department of Biological Sciences

University of Denver

Denver, CO

10:30 am – 10:50 am

Quantitative PCR (qPCR) Tools for the DNA Analysis of Challenging Samples

Mark D. Timken

Senior Criminalist

Bashinski DNA Laboratory

California Department of Justice

Richmond, CA

10:50 am – 11:10 am

Putting it All Together: Field Test of Tools to Help Solve Missing Persons Cases

Arthur Eisenberg
Director
DNA Identity Laboratory
Health Science Center
University of North Texas
Ft. Worth, TX

11:10 am – 11:30 am

Break

**Forensic DNA Research and Development: Tools for the Crime Lab II:
Y-Chromosome Markers**

11:30 am – 12:15 pm

General Session

Grand Ballroom Salons A & B

Moderator

Thurston Bryant
Research Analyst
Lockheed Martin Information Technology
Investigative and Forensic Sciences Division
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

Presenters

11:30 am – 11:50 am

Forensic Applications of Y-Chromosome STRs and SNPs

Michael Hammer
Research Scientist
ARL Division of Biotechnology
University of Arizona
Tucson, AZ

11:50 am – 12:15 pm

The Compilation and Management of a Comprehensive U.S. Y-STR Reference Database

Jack Ballantyne

Associate Professor
Department of Chemistry
University of Central Florida
Orlando, FL

Working Lunch

12:15 pm – 2:00 pm

Grand Ballroom Salons D & E

Moderator

Lois A. Tully

Deputy Chief
Investigative and Forensic Sciences Division
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

Presenter

Identification Work on an Unknown Child from the 1912 RMS Titanic Disaster: DNA and Dental Discord

Ryan Parr

Vice President
Research and Development
Genesis Genomics, Inc.
Thunder Bay, ON

**Forensic DNA Research and Development: Tools for the Crime Lab III:
DNA Quantitation**

2:00 pm – 2:50 pm

General Session

Grand Ballroom Salons A & B

Moderator

Kesha Lowe

Program Assistant
Lockheed Martin Information Technology
Investigative and Forensic Sciences Division
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

Presenters

2:00 pm – 2:20 pm

Quantitation of Human DNA in Forensic Samples and Improving the Efficiency of DNA Casework Analysis through Simple, Effective, PCR-based Screening Methods

Janice A. Nicklas

Forensic Chemist IV
Vermont Forensic Laboratory
Department of Public Safety
Waterbury, VT

2:20 pm – 2:50 pm

Progress Toward SRM 2372: Human DNA Quantitation

Margaret C. Kline

Research Biologist
Biochemical Science Division
National Institute of Standards and Technology
Gaithersburg, MD

**Forensic DNA Research and Development: Tools for the Crime Lab IV:
Laser Microdissection Separation**

2:50 pm – 3:30 pm

General Session

Grand Ballroom Salons A & B

Moderator

Kesha Lowe

Program Assistant
Lockheed Martin Information Technology
Investigative and Forensic Sciences Division
Office of Science and Technology
National Institute of Justice
U.S Department of Justice
Washington, DC

Presenters

2:50 pm – 3:10 pm

Laser Microdissection for Low Copy Number Analysis of Sperm from Mixtures

Daniel A. Peterson

Associate Professor
Department of Neuroscience
Rosalind Franklin University of Medicine and Science
North Chicago, IL

3:10 pm – 3:30 pm

Application of Laser Microdissection Microscopy to Forensic Casework

Pat Wojtkiewicz

Director
Shreveport Laboratory
North Louisiana Crime Laboratory System
Shreveport, LA

3:30 pm - 3:50 pm

Break

DNA Demonstration/Evaluation Projects

3:50 pm – 4:30 pm

General Session

Grand Ballroom Salons A & B

Moderator

Edwin W. Zedlewski

Acting Deputy Assistant Director for Research and Evaluation
Office of Research and Evaluation
National Institute of Justice
U.S. Department of Justice
Washington, DC

Presenters

3:50 pm – 4:10 pm

A Randomized Control Trial Testing the Cost- Effectiveness of Collecting DNA in High Volume Crimes

John Roman

Senior Research Associate
Justice Policy Center
The Urban Institute
Washington, DC

4:10 pm – 4:30 pm

Evaluation of Impacts of Federal Casework DNA Backlog Programs

Heather J. Clawson

Managing Associate
Child, Family, and Community Studies
Caliber Associates, Inc.
Fairfax, VA

Legislative Updates

4:30 pm – 4:50 pm

General Session

Grand Ballroom Salons A & B

Moderator

John Paul Jones

Program Manager

Investigative and Forensic Sciences Division

Office of Science and Technology

National Institute of Justice

U.S. Department of Justice

Washington, DC

Presenter

Legislative Updates

Lisa Hurst

Government Affairs Consultant

Smith Alling Lane

Alexandria, VA

Discussion and Closing Remarks

4:50 pm – 5:00 pm

Grand Ballroom Salons A & B

Y-STR Database Coordination Efforts

6:00 pm – 7:30 pm

Private Meeting

Alexandria Room

Tuesday, June 27, 2006

Registration

7:30 am - 5:00 pm

Registration and Continental Breakfast

Grand Ballroom Foyer

Opening Remarks

8:15 am - 8:30 am

Grand Ballroom Salons A & B

Presenters

Lois A. Tully

Deputy Chief

Investigative and Forensic Sciences Division

Office of Science and Technology

National Institute of Justice

U.S. Department of Justice

Washington, DC

Susan D. Narveson

Chief

Investigative and Forensic Sciences Division

Office of Science and Technology

National Institute of Justice

U.S. Department of Justice

Washington, DC

Forensic DNA Research and Development: New Projects

8:30 am - 10:30 am

General Session

Grand Ballroom Salons A & B

Moderator

Lois A. Tully

Deputy Chief

Investigative and Forensic Sciences Division

Office of Science and Technology

National Institute of Justice

U.S. Department of Justice

Washington, DC

Presenters

8:30 am – 8:50 am

Degenerate Oligonucleotide Primed-PCR: Thermalcycling Optimization for Forensic DNA Analysis

Tracey Dawson Cruz

Assistant Professor and Graduate Director
Department of Forensic Science
Virginia Commonwealth University
Richmond, VA

8:50 am – 9:10 am

A SNP-based Microarray Technology for Use in Forensic Applications

Giulia C. Kennedy

Senior Director
Genomics Collaborations
Affymetrix, Inc.
Santa Clara, CA

9:10 am – 9:30 am

The Determination of the Physical Characteristics of an Individual from Biological Stains: Age Determination

Jack Ballantyne

Associate Professor
Department of Chemistry
University of Central Florida
Orlando, FL

9:30 am – 9:50 am

DNA-based Identification of Forensically Important Diptera

Ronald W. DeBry

Associate Professor
Department of Biological Sciences
University of Cincinnati
Cincinnati, OH

9:50 am – 10:10 am

Dielectrophoretic (DEP) Separation of Sperm and Epithelial Cells for Application to Sexual Assault Case Evidence

Mark D. Timken

Senior Criminalist
Bashinski DNA Laboratory
California Department of Justice
Richmond, CA

10:10 am – 10:30 am

Development of a Highly Informative Multiplex PCR and Linear Array Typing System Targeting Variation in the Mitochondrial Genome

Cassandra D. Calloway

Co-Investigator and MtDNA Project Leader
Human Genetics
Roche Molecular Systems
Alameda, CA

10:30 am – 10:50 am

Break

Forensic DNA Research and Development: Ongoing Projects I

10:50 am – 12:30 pm

General Session

Grand Ballroom Salons A & B

Moderator

Jeff Hickey

Senior Forensic Analyst
Lockheed Martin Information Technology
Office of Science and Technology
National Institute of Justice
U.S Department of Justice
Washington, DC

Presenters

10:50 am – 11:10 am

Forensic Stain Identification by RT-PCR Analysis and Consequent Development of a New DNA Extraction Method

Trisha L. Conti

Forensic Chemist II
Forensic Laboratory
Vermont Department of Public Safety
Waterbury, VT

11:10 am – 11:30 am

Gene Polymorphism and Human Pigmentation

Murray Brilliant

Lindholm Professor of Genetics
Department of Pediatrics
University of Arizona College of Medicine
Tucson, AZ

11:30 am – 11:50 am

The Development and Validation of a Standardized Canine STR Panel for Use in Forensic Casework

Sree Kanthaswamy

Assistant Research Geneticist
California National Primate Research Center
Department of Anthropology
University of California, Davis
Davis, CA

11:50 am – 12:10 pm

Generating More Precise Post Mortem Interval Estimates With Entomological Evidence: Reliable Patterns of Gene Expression Throughout Calliphorid Larval and Pupal Development

David R. Foran

Professor
Forensic Science Program
Michigan State University
East Lansing, MI

12:10 pm – 12:30 pm

The Use of MiniSTRs as Tools for the Investigation of DNA Degradation and Inhibition

Bruce R. McCord

Associate Professor
International Forensic Research Institute
Florida International University
Miami, FL

Working Lunch: Demonstrations and Practitioner Posters
Display of Posters from Practitioner Agencies Participating in
DNA Backlog Reduction Programs

12:30 pm – 2:00 pm

Grand Ballroom Salons D & E

Presenters

Polymeric Microfluidic DNA Analysis System for Forensic Analysis

Laurie E. Locascio

Team Leader

Analytical Chemistry Division

National Institute of Standards and Technology

Gaithersburg, MD

A Miniaturized Forensic DNA Analysis System for SNP-based Detection

Nathaniel C. Cady

Post Doctoral Associate

Cornell University

Ithaca, NY

Microfabricated Capillary Electrophoresis Genetic Analyzers for Forensic Short Tandem Repeat DNA Profiling

Richard A. Mathies

Professor

Department of Chemistry

University of California, Berkeley

Berkeley, CA

The National Clearinghouse for Science, Technology, and the Law (NCSTL)

Carol Henderson

Director

National Clearinghouse for Science, Technology and the Law

Gulfport, FL

The Forensic Resource Network

Debra A. Figarelli

DNA Technical Leader

Instructional Technology

National Forensic Science Technology Center

Phoenix, AZ

Combined Pressure and Electro-Extraction and Concentration of DNA for Microfluidic Forensic DNA Analysis

Joan Bienvenue

Graduate Student Researcher
Department of Chemistry
University of Virginia
Charlottesville, VA

To Develop an Automated System to Detect Spermatozoa on Laboratory Slides to Increase Productivity in the Analysis of Sexual Assault Cases

Eric Buel

Director
Forensic Laboratory
Vermont Department of Public Safety
Waterbury, VT

DNA.gov – Assistance, Information and Training

Lee Mockensturm

Web Content Manager
National Institute of Justice
Office of Justice Programs
U.S. Department of Justice
Washington, DC

Sperm Cell Selection System for Forensic DNA Analysis of the Male Component

John C. Herr

Professor of Cell Biology and Urology
Center for Research in Contraceptive and Reproductive Health
University of Virginia School of Medicine
Charlottesville, VA

NIST: On-going Projects to Aid the Human Identity Testing Community

John M. Butler

Research Chemist
Human Identity Project Team
DNA Technologies Group and Biotechnology Division
National Institute of Standards and Technology
Gaithersburg, MD

Resources and Assistance for the Forensic DNA Community

2:00 pm – 4:45 pm

General Session

Grand Ballroom Salons A & B

Moderator

Patricia A. Kashtan

Technical Program Support Analyst
Lockheed Martin Information Technology
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

Presenters

2:00 pm – 2:20 pm

The Forensic Resource Network (FRN)

John Paul Jones

Program Manager
Investigative and Forensic Sciences Division
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

2:20 pm – 2:40 pm

Update on the Grant Progress Assessment Program

Mark Nelson

GPA/DNA Audit Program Manager
National Forensic Science Technology Center
Lexington, VA

2:40 pm – 3:00 pm

NIJ's Grant Progress Assessment Program

Jeff Hickey

Senior Forensic Analyst
Lockheed Martin Information Technology
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

3:00 pm – 3:20 pm

The National Institute of Justice Expert Systems Testbed Project: Analysis of Single Source Samples and Casework Samples

Rhonda Roby

Technical Consultant, Experts Systems Testbed
National Institute of Justice
U.S. Department of Justice
Frederick, MD

3:20 pm – 3:40 pm

Selecting an Expert System: Making the Right Decision

Sindey Schueler

Biology Supervisor
Kansas Bureau of Investigation
Topeka, KS

3:40 pm – 4:00 pm

Expert Systems at the California Department of Justice: Lessons Learned

Scott Nagy

Criminalist
Bureau of Forensic Services
California Department of Justice
Richmond, CA

4:00 pm – 4:20 pm

Validation of the TrueAllele® Automated Data Review System 2.0

Barry Duceman

Director
Biological Science
Forensic Investigation Center
New York State Police
Albany, NY

4:20 pm – 4:45 pm

Update on NDIS, CODIS and the Impact of the DNA Fingerprint Act of 2005

Thomas F. Callaghan

Chief, CODIS Unit
Laboratory Division
Federal Bureau of Investigation
Quantico, VA

Discussion and Closing Remarks

4:45 pm – 5:00 pm

Grand Ballroom Salons A & B

Wednesday, June 28, 2006

Registration

7:30 am – 12:00 pm **Registration and Continental Breakfast** *Grand Ballroom Foyer*

Opening Remarks

8:15 am – 8:30 am *Grand Ballroom Salons A & B*

Presenters

Lois A. Tully

Deputy Chief

Investigative and Forensic Sciences Division

Office of Science and Technology

National Institute of Justice

U.S. Department of Justice

Washington, DC

Susan D. Narveson

Chief

Investigative and Forensic Sciences Division

Office of Science and Technology

National Institute of Justice

U.S. Department of Justice

Washington, DC

Forensic DNA Research and Development: Ongoing Projects II

8:30 am – 9:50 am **General Session** *Grand Ballroom Salons A & B*

Moderator

Nick Viggiani

Forensic Policy Analyst

Lockheed Martin Information Technology

Investigative and Forensic Sciences Division

Office of Science and Technology

National Institute of Justice

U.S. Department of Justice

Washington, DC

Presenters

8:30 am – 8:50 am

DNA NanoChips: Pushing Technology Limits to Nanoscale and Single DNA Molecule Analysis

Laura Mehrmanesh
Research Assistant
Engineering and Physics
Brown University
Providence, RI

8:50 am – 9:10 am

A Dog mtDNA Database

Marc Allard
Associate Professor
Department of Biological Sciences
The George Washington University
Washington, DC

9:10 am – 9:30 am

Population Genetics of SNPs for Forensic Purposes

Kenneth Kidd
Professor
Department of Genetics, Psychiatry, and Biology
Yale University School of Medicine
New Haven, CT

9:30 am – 9:50 am

Microarray Based Resequencing of MitoDNA: Promises and Pitfalls for Forensic Applications

Linda D. Strausbaugh
Professor of Genetics
Director
Center for Applied Genetics and Technology
Department of Molecular and Cell Biology
University of Connecticut
Storrs, CT

9:50 am – 10:10 am

Break

DNA Training Programs

10:10 am – 11:50 am

General Session

Grand Ballroom Salons A & B

Moderator and Presenter

10:10 am – 10:30 am

NIJ's DNA Training for the Criminal Justice Community Under the President's DNA Initiative: Products for the Community

Charles Heurich

Program Manager

Investigative and Forensic Sciences Division

Office of Science and Technology

National Institute of Justice

U.S Department of Justice

Washington, DC

Presenters

10:30 am – 10:50 am

DNA Training Efforts of the Forensic Resource Network

William J. Tilstone

Deputy Executive Director

National Forensic Science Technology Center

Largo, FL

10:50 am – 11:10 am

NIJ Forensic Resource Network

Terry W. Fenger

Director

Forensic Science Center

Marshall University

Huntington, WV

11:10 am – 11:30 am

A Virtual Practicum to Train Sexual Assault Forensic/Nurse Examiners in the National Protocol

Joseph V. Henderson

Director

Interactive Media Laboratory

Dartmouth Medical School

Lebanon, NH

11:30 am – 11:50 am

DNA: A Prosecutor's Practice Notebook

Paula H. Wulff
Program Manager
DNA Forensics Program
American Prosecutors Research Institute
Alexandria, VA

Discussion and Closing Remarks

11:50 am – 12:00 pm

General Session

Grand Ballroom Salons A & B

Presenter

Susan D. Narveson
Chief
Investigative and Forensic Sciences Division
Office of Science and Technology
National Institute of Justice
U.S. Department of Justice
Washington, DC

12:00 pm

Meeting Adjourned