

Green Mountain DNA Conference

July 24-26, 2017
Burlington, Vermont

Monday, July 24

7:30 – 8:15 am	Registration & Continental Breakfast	Promenade
8:15 – 8:30 am	Welcome and Opening Remarks Thomas Anderson, Commissioner, Vermont Department of Public Safety Trisha Conti, Director, Vermont Forensic Laboratory Ron Fourney, Royal Canadian Mounted Police, Green Mountain DNA Conference Steering Committee	Emerald III Ballroom
Moderators: George Duncan & Ron Fourney		Emerald III Ballroom
8:30 – 9:15 am	<i>Microhaplotypes are coming of age</i> Ken Kidd, Yale University School of Medicine	
9:15 – 10:00 am	<i>The Barcode of Wildlife Project: Enforcing Endangered Species Laws with DNA Barcodes</i> Michael Trizna, Smithsonian Institution	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:00 am	<i>Forensic epigenetics, a novel method for body fluid identification and pheotyping</i> Bruce McCord, Florida International University	
11:00 – 11:30 am	<i>The potential of PCR-free nanopore sequencing for forensic use</i> John Planz, University of North Texas Health Science Center	
11:30 – 12:00 pm	Discussion	
12:00 – 1:00 pm	Lunch	G's Restaurant
1:00 – 1:30 pm	<i>Protein based human Identification using the hair shaft proteome</i> Glendon Parker, University of California at Davis	
1:30 – 2:00 pm	<i>Combined Extraction Method for Mitochondrial DNA and Proteins from Hair for Human Identification</i> Craig Bartling, Battelle Memorial Institute	
2:00 – 2:30 pm	<i>Furensics: Investigating Human Crimes Using Animal DNA</i> Christina Lindquist, UC Davis Veterinary Genetics Laboratory – Forensics Unit	
2:30 – 3:00 pm	Break	Promenade

3:00 – 3:30 pm	<i>Mall Cop Confidential: How a “Paul Blart” Moment Solved a 20 Year Old Cold Case</i> Martha Bashford, New York County District Attorney’s Office Melissa Mourges, New York County District Attorney’s Office
3:30 – 4:00 pm	<i>A scientist and a lawyer walk into the bar: How the legal system is playing a larger and larger role in research misconduct</i> Ivan Oransky, New York University, MedPage Today, Retraction Watch
4:00 – 4:30 pm	Discussion
5:00 – 7:00 pm	Evening Reception/Poster Session Promenade Sponsored by Thermo Fisher Scientific

Posters:

Rapid DNA Identification of Human Remains: A New Path Forward for the Medico-legal Community
Kristine Cavicchi, Massachusetts Office of the Chief Medical Examiner
Christopher Miles, Department of Homeland Security Science & Technology Directorate

When DNA Evidence Implicates An Innocent Man
Jenny Cheung, Legal Aid Society

Evaluation and Optimization of Independent Forensic RSID® Urine for the Presumptive Identification of Tamm-Horsfall Glycoprotein for use on Casework Samples
Megan Foley & Jessica Seehousz, NMS Labs

Development of Rapid DNA Analysis with Expanded Loci for a Wide Range of Samples Types: Application to Disaster Victim Identification and Family Reunification
Julie French, ANDE

Investigator Quantiplex Pro: A New Quantification Kit for SAK Screening
Mary Jones Dukes, QIAGEN, Inc.

Forensic Application of Vibrational Spectroscopy
Ewelina Mistek, State University of New York at Albany

Characterizing and Reducing NUMT Pseudogenes in Mitochondrial NGS Data
Joseph Ring, Armed Forces DNA Identification Laboratory

Revealing Hidden Blood on Dark Fabrics
Kimberly Rumrill, New Hampshire State Police Forensic Laboratory

7:00 – 11:00 pm	Vans to Explore Downtown Burlington	Hotel Registration Lobby
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Tuesday, July 25

7:30 – 8:30 am	Continental Breakfast	Promenade
Moderators: Jack Ballantyne & Bruce McCord		Emerald III Ballroom
8:30 – 9:15 am	<i>Global DNA databases expansion and the hits they produce – a review of the 2017 “DNA Database Hit of the Year Award” cases</i> Tim Schellberg, Gordon Thomas Honeywell Governmental Affairs	
9:15 – 9:45 am	<i>Advanced Methods for Analyzing PCR-MPS Data from DNA Mixtures</i> Brian Young, NicheVision Forensics, Inc.	
9:45 – 10:15 am	<i>Probabilistic Genotyping: Demystified</i> Kent Harman, Genetic Technologies, Inc.	
10:15 – 10:45 am	Break	Promenade
10:45 – 11:15 am	<i>The impact of continuous DNA mixture interpretation models on evidential inference</i> Desmond Lun, Rutgers University	
11:15 – 11:45 am	<i>The FBI’s Rapid DNA Initiative for Booking Station Expansion of CODIS</i> Tom Callaghan, Federal Bureau of Investigation	
11:45 – 12:00 pm	Discussion	
12:00 – 1:00 pm	Lunch	G’s Restaurant
1:00 – 1:30 pm	<i>Feasibility and Guidance Study of Next Generation Sequencing for Forensic DNA Applications – Final Summary</i> Richard Guerrieri, Battelle Memorial Institute	
1:30 – 2:00 pm	<i>A Comprehensive Read Analysis of PowerSeqTM MPS Data provides a conceptual framework for interpreting MPS data in forensic casework</i> Mark Wilson, Battelle Memorial Institute	
2:00 – 2:30 pm	<i>Internal Validation of the ForenseqTM DNA Signature Prep Kit for Reference Samples: Successes and Lessons Learned</i> Lilliana Moreno, Federal Bureau of Investigation	
2:30 – 3:00 pm	Break	Promenade
3:00 – 3:30 pm	<i>Acquiring, Assessing and Planning the Deployment of NGS Technology for Forensic Casework</i> Soulbee Jin, Centre of Forensic Sciences	
3:30 – 4:00 pm	<i>Automation of Differential Extraction with Sperm Quantitation using a Microfluidic-Integrated Shadow Imaging System for Forensic Applications</i> Lenny Klevan, DxNOW, Inc.	

4:00 - 4:30 pm	<i>Developmental Validation of a Rapid Serology Test Capable of Simultaneous Detection of up to Six Bodily Fluids</i> Toby Hampshire, LGC	
4:30 – 5:00 pm	Discussion	
5:45 pm	Depart for Dinner Cruise	Hotel Registration Lobby
6:15 pm	Boarding for Dinner Cruise	Downtown Burlington
6:30 – 9:30 pm	Dinner Cruise on Lake Champlain Sponsored by Illumina Inc.	

Wednesday, July 26

7:30 – 8:30 am	Continental Breakfast	Promenade
Moderators: Jack Ballantyne & Bruce McCord		Emerald III Ballroom
8:30 – 8:50 am	<i>Sperm DNA Capture: A Novel Approach for Separation of Nucleic Acids in Mixed Sexual Assault Samples</i> Patrick Spooner, GE Global Research	
8:50 – 9:10 am	<i>Front-end separation of biological mixtures: harnessing biochemical variation and fluorescent properties of cells to generate single source STR profiles</i> M. Katherine Philpott, Virginia Commonwealth University	
9:10 – 9:30 am	<i>Rapid Processing, Normalization and Direct Amplification of Casework Samples</i> Mary Loten, Promega Corporation	
9:30 – 9:50 am	<i>Exploring methods for the identification of non-human biological material encountered in casework</i> Kelly Meiklejohn, Federal Bureau of Investigation	
9:50 – 10:20 am	Break	Promenade
10:20 – 10:40 am	<i>Focused Forensic Development</i> Kameran Wong, Illumina, Inc.	
10:40 – 11:00 am	<i>How the recognition of Type II DNA damage helped resolve an unidentified human remains case</i> Brandon Letts, Federal Bureau of Investigation	
11:00 – 11:20 am	<i>Bridge from CE to NGS – a study to review data across two technologies</i> Matt Gabriel, Thermo Fisher Scientific	
11:20 – 11:40 am	<i>Cell-Free Nucleic Acids in Fingerprints</i> Steven Weitz, Bureau of Alcohol, Tobacco, Firearms and Explosives Laboratory	
11:40 – 12:00 pm	Final Discussion and Closing Remarks	Emerald III Ballroom
	Trisha Conti, Director, Vermont Forensics Laboratory Ron Fourney, Royal Canadian Mounted Police, Green Mountain DNA Conference Steering Committee	
12:00 – 1:00 pm	Lunch* Sponsored by Promega Corporation *only for Workshop attendees	G's Restaurant
1:00 – 4:30 pm	Workshop Sponsored by Promega Corporation	Emerald III Ballroom