

Green Mountain DNA Conference

July 31-August 2, 2019
Burlington, Vermont

Wednesday, July 31

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	Emerald III Ballroom
Moderator:		Emerald III Ballroom
8:30 – 9:15 am	<i>Title TBD</i> Sheila Willis, National Institute of Standards and Technology	
9:15 – 10:00 am	<i>Title TBD</i> Lutz Roewer, Charite Institute of Legal Medicine and Forensic Science	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:00 am	<i>Title TBD</i> Mark Wilson (maybe), Parabon	
11:00 – 11:30 am	<i>Mobile Elements and Genomic Variation</i> Mark Batzer, Louisiana State University	
11:30 – 12:00 pm	Discussion	
12:00 – 1:00 pm	Lunch	G's Restaurant
Moderator:		Emerald III Ballroom
1:00 – 1:30 pm	<i>Title TBD</i> John Planz, University of North Texas	
1:30 – 2:00 pm	<i>Pyrosequencing based DNA analysis for species ID</i> George Duncan, Florida International University	
2:00 – 2:30 pm	<i>Autofluorescence and Morphological Profiling of Cell Populations: A New Paradigm for Processing DNA Mixture Evidence?</i> Christopher Ehrhardt, Virginal Commonwealth University	
2:30 – 3:00 pm	Break	Promenade

3:00 – 3:30 pm	<i>Forensics Statistics are Fun and Easy (Said No One, Ever): How to Present Probabilistic Genotyping Results in Court</i> Martha Bashford, Manhattan District Attorney's Office Melissa Mourges, Manhattan District Attorney's Office	
3:30 – 4:00 pm	<i>Title TBD</i> Rebekah Kay, Utah Bureau of Forensic Services	
4:00 – 4:30 pm	<i>Discussion</i>	
5:00 – 7:00 pm	Evening Reception/Poster Session	Promenade

Posters:

Adoption and Validation of Mitochondrial Control Region with NGS for Missing Persons Laboratory
Joseph Chang, Thermo Fisher Scientific

Mitochondrial DNA Analysis Using Massively Parallel Sequencing Systems
Lotte Downey, Promega Corporation

The Spectrum Compact CE System: Fragment Analysis with a Personal Capillary Electrophoresis Device
Lotte Downey, Promega Corporation

Advances in MPS and Mitochondrial DNA Analysis
Melissa Kotkin, Verogen Inc.

A molecular identification strategy for blow- and flesh-flies encountered during medicolegal casework
Sam Kwiatkowski, Harris County Institute of Forensic Science

Applied Biosystems™ VeriFiler™ Plus kit with Internal Quality Control System provides confident answers in challenging forensic samples
Angie Lackey, Thermo Fisher Scientific

An Evaluation of Performance and STR Concordance Between Massively Parallel Sequencing (MPS) and Capillary Electrophoresis (CE) Platforms for the Forensic Analysis of Challenging Sample Types
Heather Milnthorp, The Center for Forensic Science Research and Education

All Mixed Up: A Practitioner's Perspective on Incomplete Sample Collection In Touch DNA Mixtures
Terri Rosenblatt, Legal Aid Society

Thursday, August 1

7:30 – 8:30 am	Continental Breakfast	Promenade
Moderator:		Emerald III Ballroom
8:30 – 9:15 am	<i>Title TBD</i> John Butler, National Institute of Standards and Technology	
9:15 – 10:00 am	<i>Title TBD</i> Frederick Bieber, Harvard Medical School	
10:00 – 10:30 am	<i>Title TBD</i> Lori Napolitano, Florida Department of Law Enforcement	
10:30– 11:00 am	Break	Promenade
11:00 – 11:30 am	<i>STR Sequence Nomenclature: Progress Report from the Strand Working Group</i> Katherine Butler Gettings, National Institute of Standards and Technology	
11:30 – 12:00 am	<i>Title TBD</i> Kyle Schroeder, Gordon Thomas Honeywell Governmental Affairs	
12:00 – 1:00 pm	Lunch	G’s Restaurant
Moderator:		Emerald III Ballroom
1:00 – 1:30 pm	<i>Title TBD</i> Speaker TBD, Affiliation TBD	
1:30 – 2:00 pm	<i>The use of Artificial Intelligence in Forensic DNA Interpretation: Artifact Management and Predicting the Number of Contributors</i> Michael Marciano, Syracuse University Jonathan Adelman, Syracuse University	
2:00 – 2:30 pm	<i>Forensic Proteomics: Extracting Identifying Information from Problematic Evidence Types</i> Zachary Goecker, University of California - Davis	
2:30 – 3:00 pm	Break	Promenade
Moderator:		Emerald III Ballroom
3:00 – 3:30 pm	<i>Next Generation Sequencing of forensic STR artifacts</i> Erin Gorden, Armed Forces Medical Examiner System’s Armed Forces DNA Identification Laboratory	

3:30 – 4:00 pm	<i>Title TBD</i> Tom Callaghan, FBI Laboratory	
4:00 - 4:30 pm	<i>Title TBD</i> Jody Hynds, Orange County District Attorney’s Office	
4:30 – 5:00 pm	<i>Beyond Buccal Swabs: The Utility and Efficacy of Rapid DNA on other types of samples</i> Lilliana Moreno, FBI Laboratory	
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 Thermo Fisher Scientific	

Friday, August 2

7:30 – 8:30 am	Continental Breakfast	Promenade
Moderators:		Emerald III Ballroom
8:30 – 8:50 am	<i>In Pursuit of Very Small Microhaplotypes</i> Kenneth Kidd, Yale University	
8:50 – 9:10 am	<i>An extended massively parallel sequencing (MPS) panel of microhaplotypes for forensic purposes</i> Daniele Podini, The George Washington University	
9:10 – 9:30 am	<i>Analysis of Sequence-Based Alleles in PCR-MPS Mixtures</i> Brian Young, NicheVision, Inc.	
9:30 – 9:50 am	<i>Looking Under the Hood for a Better Understanding of the Complexities Behind Mitigating the Everyday Challenges of Data Interpretation: The Nuts and Bolts of 3500/3500xL Data Collection Software v4.0 and GeneMapper™ ID-X Software v1.6</i> Jaime Brachold, Thermo Fisher Scientific	
9:50 – 10:20 am	Break	Promenade
10:20 – 10:40 am	<i>The Implementation Process: A Massively Parallel Sequencing Workflow for Mitochondrial DNA Analysis</i> Jennifer Churchill Cihlar, University of North Texas Health Science Center	
10:40 – 11:00 am	<i>Prevalence and impact of PCR artifacts from soil samples using the Applied Biosystems™ Globalfiler™ PCR Amplification Kit</i> Toni Diegoli, ATF Forensic Science Laboratory	
11:00 – 11:20 am	<i>Evaluation of improved body fluid identification methods</i> Karen Olson, Defense Forensic Science Center	
11:20 – 11:40 am	<i>NIST PCR-Based DNA Profiling Standard (SRM 2391d): What's New?</i> Peter Vallone, National Institute of Standards and Technology	
11:40 – 12:00 pm	Final Discussion and Closing Remarks Trisha Conti, Director, Vermont Forensic Laboratory	Emerald III Ballroom