

# Green Mountain DNA Conference

July 30-August 1, 2018  
Burlington, Vermont

## Monday, July 30

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
<b>Moderators: George Duncan &amp; Ron Fourney</b>		Emerald III Ballroom
8:30 – 9:15 am	<i>2018 DNA Database Hit of the Year</i> Tim Schellberg, Gordon Thomas Honeywell	
9:15 – 10:00 am	<i>Title to be determined</i> Charla Marshall, Armed Forces DNA Identification Laboratory	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:00 am	<i>Title to be determined</i> Mike Brandhagen, FBI Laboratory	
11:00 – 11:30 am	<i>Title to be determined</i> Mitchell Holland, Penn State University	
11:30 – 12:00 pm	Discussion	
12:00 – 1:00 pm	Lunch	G's Restaurant
1:00 – 1:30 pm	<i>Title to be determined</i> Troy Moore, Kailosgenetics	
1:30 – 2:00 pm	<i>Title to be determined</i> Jarrad Marcell, Argonne National Labs	
2:00 – 2:30 pm	<i>Microhaplotypes: a comprehensive and versatile tool for forensic DNA analysis</i> Fabio Oldoni, George Washington University	
2:30 – 3:00 pm	Break	Promenade
3:00 – 3:30 pm	<i>Trust Me, I'm a Doctor...</i> Martha Bashford, Manhattan District Attorney's Office Melissa Mourges, Manhattan District Attorney's Office	

3:30 – 4:00 pm                      *Title to be determined*  
Daniela Cuenca, California Department of Justice

4:00 – 4:30 pm                      Discussion

5:00 – 7:00 pm                      Evening Reception/Poster Session                      Promenade  
**Sponsored by**

**Posters:**

*Internal Validation of the “Dogfiler” STR amplification kit for the analysis of canine DNA evidence*  
Sam Kwiatkowski, Harris County Institute of Forensic Science

*Optimal screening and sampling methods for semen stains washed multiple times*  
Sarah Noël, Laboratoire de sciences judiciaires et de médecine légale

*Use of Relationship Likelihood Ratios as a Diagnostic for Probabilistic Genotyping*  
Samantha Wandzek, DNA Labs International

*Evaluating Variability of Likelihood Ratios of Major Component DNA Profiles in Complex Mixtures with an Unknown Number of Contributors*  
Steven Weitz, Bureau of Alcohol, Tobacco, Firearms and Explosives

7:00 – 11:00 pm                      Vans to Explore Downtown Burlington                      Hotel Registration Lobby

**Tuesday, July 31**

7:30 – 8:30 am	Continental Breakfast	Promenade
<b>Moderators:</b>		Emerald III Ballroom
8:30 – 9:15 am	<i>Title to be determined</i> Utkan Demirci, Standford University	
9:15 – 10:00 am	<i>Title to be determined</i> John Planz, University of North Texas Health Science Center	
10:00 – 10:30 am	<i>Selecting microhaplotypes optimized for different purposes</i> Kenneth Kidd, Yale University	
10:30– 11:00 am	Break	Promenade
11:00 – 11:30 am	<i>Title to be determined</i> Jack Ballantyne, University of Central Florida	
11:30 – 12:00 am	<i>Increasing the Discrimination Power of the ForenSeq™ DNA Signature Prep Kit with Flanking Region Variation</i> Jonathan King, University of North Texas Health Science Center	
12:00 – 1:00 pm	Lunch	G's Restaurant
1:00 – 1:30 pm	<i>Validation of ANDE 6C FlexPlex “A” Cassette and Rapid ID Systems: Technical Uses and Limitations</i> Lilliana Moreno, FBI Laboratory	
1:30 – 2:00 pm	<i>Using Methylation Patterns to Determine Origin of Biological Material</i> Peter St. Andre, San Francisco Police Department Crime Laboratory	
2:00 – 2:30 pm	<i>MPS MixtureAce™: a Data Formatting Tool for Mixed MPS Data</i> Brian Young, NicheVision, Inc.	
2:30 – 3:00 pm	Break	Promenade
3:00 – 3:30 pm	<i>The Development of DNA Methylation Markers to Infer Tobacco Smoking</i> Hussain Alghanim, Florida International University	
3:30 – 4:00 pm	<i>Breaking the “1 in a Billion” Barrier: Optimizing Genetically-Variant Peptide Extraction from the Human Hair Shaft</i> Glendon Parker, University of California, Davis	
4:00 - 4:30 pm	<i>Enhancing DNA Mixture Deconvolution and Improving Sample Quality Using the DEPArray™ System</i> Michael Marciano, Syracuse University	

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 <b>Sponsored by Thermo Fisher Scientific</b>	

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**Wednesday, Aug. 1**

7:30 – 8:30 am	Continental Breakfast	Promenade
<b>Moderators:</b>		<b>Emerald III Ballroom</b>
8:30 – 8:50 am	<i>Assessing Massively Parallel Sequencing (MPS) platforms for forensic casework</i> Timothy Kupferschmid, NYC Office of Chief Medical Examiner	
8:50 – 9:10 am	<i>Reliability of public sequence databases for accurate identification of non-human biological material encountered in casework</i> Natalie Damaso, FBI Laboratory	
9:10 – 9:30 am	<i>Implementation of a Massively Parallel Sequencing Workflow for Forensic Applications</i> Adam Garver, Ohio Bureau of Criminal Investigation	
9:30 – 9:50 am	<i>If you replace all the boards in a forensic software program, does it remain the same program?</i> Richard Torres, The Legal Aid Society	
9:50 – 10:20 am	Break	Promenade
10:20 – 10:40 am	<i>Making the MPS Vision a Reality</i> Melissa Kotkin, Verogen, Inc.	
10:40 – 11:00 am	<i>Canines at the Scene: A Challenge to the DOGma of DNA Contamination</i> Emily Head, Bureau of Alcohol, Tobacco, Firearms, and Explosives	
11:00 – 11:20 am	<i>STRmix™ put to the test: 300 000 non-contributors profiles compared to 4 people mixtures</i> Speaker TBD, Laboratoire de sciences judiciaires et de médecine légale	
11:20 – 11:40 am	<i>STR typing workflows on the Ion Torrent S5XL sequencing platform</i> Kevin Kiesler, National Institute of Standards and Technology	
11:40 – 12:00 pm	Final Discussion and Closing Remarks Trisha Conti, Director, Vermont Forensics Laboratory Green Mountain DNA Conference Steering Committee	<b>Emerald III Ballroom</b>
12:00 – 1:00 pm	Lunch* <b>Sponsored by Thermo Fisher Scientific</b> *only for Workshop attendees	<b>G's Restaurant</b>
1:00 – 4:30 pm	Workshop <b>Sponsored by Thermo Fisher Scientific</b>	<b>Emerald III Ballroom</b>