

Green Mountain DNA Conference

July 22-24, 2024
Burlington, Vermont

Monday, July 22

7:30 – 8:15 am	Registration & Continental Breakfast	Promenade
8:15 – 8:30 am	Welcome and Opening Remarks Trisha Conti, Director, Vermont Forensic Laboratory Daniel Batsie, Deputy Commissioner, Vermont Department of Public Safety	Emerald III Ballroom
Moderator: David Coffman		Emerald III Ballroom
8:30 – 9:15 am	<i>DNA on Trial</i> Frederick R. Bieber, Harvard University	
9:15 – 10:00 am	<i>Advances in Forensic Tissue Evaluation</i> Jack Ballantyne, University of Central Florida	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:00 am	<i>Systematic Review & Meta-Analysis of Swab Types for Forensic Biology Use</i> Jillian Conte, National Institute of Justice	
11:00 – 11:30 am	<i>Constructing a new laboratory and analytic workflow for mixture deconvolution using microhaplotypes</i> Sarah Cavanaugh, Bode Technology	
11:30 – 12:00 pm	<i>Determining kinship in missing persons and disaster victim identification cases with an end-to-end workflow</i> Laurence Devesse, QIAGEN	
12:00 – 1:00 pm	Lunch	The Atrium
Moderator: Michael Marciano		Emerald III Ballroom
1:00 – 1:30 pm	<i>Engineering a better carrion fly. Genetic modification to make a tool for forensic entomology validation experiments.</i> Jeffrey Wells, Florida International University	
1:30 – 2:00 pm	<i>Chemical excision of osteogenic cells from cortical bone slices through complete collagenase digestion</i> Ciara Rhodes, Virginia Commonwealth University	
2:00 – 2:30 pm	<i>Current Practices and Developing Methods in Forensic Serology</i> Sarah Seashols-Williams, Virginia Commonwealth University	

2:30 – 3:00 pm	Break	Promenade
Moderator: George Duncan		Emerald III Ballroom
3:00 – 3:45 pm	<i>Single cell data engenders posterior distributions concentrated at the true genotypes for all mixtures and donors</i> Catherine Grgicak, Rutgers University	
3:45 – 4:30 pm	<i>Characterizing stutter in single cells and the impact on multi-cell analysis</i> Michael Marciano, Syracuse University	
4:45 – 7:00 pm	Evening Reception	Promenade
	Sponsored by DNA Labs International and QIAGEN/Verogen	

<p>Tuesday, July 23</p>

7:30 – 8:30 am	Continental Breakfast	Promenade
Moderator: Ron Fourney		Emerald III Ballroom
8:30 – 9:15 am	<i>Investigative Genetic Genealogy Progress and Challenges</i> Thomas Callaghan, FBI Laboratory	
9:15 – 10:00 am	<i>A Perspective on the Future of Microbial Forensics</i> James Crill, Syracuse University	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:15 am	<i>Applying Rapid DNA technologies to CBRNE events</i> Chantal Fregeau, Royal Canadian Mounted Police	
11:15 – 12:00 pm	<i>The Status of New DNA Technologies in the Courtroom</i> Rachel Oefelein, DNA Labs International	
12:00 – 1:00 pm	Lunch	The Atrium
Moderator: Jack Ballantyne		Emerald III Ballroom
1:00 – 1:30 pm	<i>DNA Evaluative Reporting in American Courtrooms: How is That Supposed to Work, Exactly?</i> Melissa Mourges, New York County District Attorney's Office	
1:30 – 2:00 pm	<i>Did they or didn't they? What role should the DNA expert have when activities are of interest?</i> Tim Kalafut, Sam Houston State University	
2:00 – 2:30 pm	<i>Forensic DNA Databases: A Legal Retrospective</i> Dawn Herkenham	
2:30 – 3:00 pm	Break	Promenade
Moderator: Jack Ballantyne		Emerald III Ballroom
3:00 – 3:30 pm	<i>NIJ funding targeted at public crime laboratories – A historical look at the last eight years</i> Tracey Johnson, National Institutes of Justice	
3:30 – 4:00 pm	<i>Choosing the Right Workflow: An Evaluation of Genotyping Technologies for Forensic Investigative Genetic Genealogy Casework</i> Robert Bever, Bode Technology	
4:00 – 4:30 pm	<i>A Confirmatory Forensic Body Fluid Assay Using Proteomic Mass Spectrometry</i> Iyman Almubarak, New York City Office of the Chief Medical Examiner	

5:45 pm	Depart for Dinner Cruise	Conference Center Lobby
6:15 pm	Boarding for Dinner Cruise	Downtown Burlington
6:30 – 9:30 pm	Dinner Cruise on Lake Champlain	

Wednesday, July 24

7:30 – 8:30 am	Continental Breakfast	Promenade
Moderator: Sandra Haddad		Emerald III Ballroom
8:30 – 9:15 am	<i>Long Range mtDNA Sequencing for mtDNA Mixture Deconvolution</i> Scott Tighe, University of Vermont Brian Young, NicheVision Forensics	
9:15 – 9:30 am	<i>A Demonstration of the Element Sequencer and the Nimagen OmniSTR kit</i> George Duncan, Nova Southeastern University	
9:30 – 10:00 am	<i>Evaluation of Improved Typing Strategies for Human Remains Identification using Nanopore Sequencing</i> Roxanne Zascavage, University of North Texas Health Science Center	
10:00 – 10:30 am	Break	Promenade
10:30 – 11:00 am	<i>What you're missing matters: Oxford Nanopore Technologies Overview and Update and Utilization in Forensic Applications</i> James Brayer, Oxford Nanopore Technologies	
11:00 – 11:30 am	<i>Mississippi: A Backlog Plan Enacted</i> Mary Jones Dukes, Mississippi Forensics Laboratory	
11:30 – 12:00 pm	<i>Applied Biosystems™ GeneMapper™ ID-X Software v1.7</i> Laura Ascroft, Thermo Fisher Scientific	
12:00 pm	Final Discussion and Closing Remarks Trisha Conti, Director, Vermont Forensic Laboratory	
1:00 – 4:30 pm	Workshop	Emerald III Ballroom
	Sponsored by Thermo Fisher Scientific	