

Cutting Edge Topics in Digital Forensics

WEBINAR



2ND ANNUAL SYMPOSIUM ON eCRIME

- Mobile Device Investigations
- Cryptocurrency Investigations
- Forensic Fundamentals in Innovation

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Agenda

Welcome & Introduction

Dr. Henry C. Lee & Robert B. Fried



Dr. Henry C. Lee
Founder/Director
Henry C. Lee Institute

Dr. Henry C. Lee is one of the world's foremost forensic scientists. Dr. Lee's work has made him a landmark in modern-day criminal investigations. He has been a prominent player in many of the most challenging cases of the last 50 years. Dr. Lee has worked with law enforcement agencies in helping to solve more than 8000 cases. In recent years, his travels have taken him to England, Bosnia, Canada, China, Brunei, Bermuda, Germany, Singapore, Thailand, Middle East, South America and other locations around the world.

Dr. Lee's testimony figured prominently in the O. J. Simpson, Jason Williams, Peterson, and Kennedy Smith Trials; and in convictions of the "Woodchipper" murderer as well as thousands of other murder cases. Dr. Lee has assisted local and state police in their investigations of other famous crimes, such as the murder of Jon Benet Ramsey in Boulder, Colorado, the 1993 suicide of White House Counsel Vincent Foster, the death of Chandra Levy, the kidnapping of Elizabeth Smart, and the reinvestigation of the Kennedy assassination. He was a consultant for more than 800 law enforcement agencies.

Dr. Lee is currently a Distinguished Emeritus Professor in Forensic Science, Vice President of Institute of Forensic Science and the director of Forensic Research and Training Center of University of New Haven. He was the Chief Emeritus for the Connecticut State Police during 2000-2010 and was the Commissioner of Public Safety for the State of Connecticut during 1998 to 2000 and has served as the state's Chief Criminalist from 1978 to 2000. Dr. Lee was the driving force in establishing a modern state police communication system, Community based police services sex offender and DNA databank, major crime investigation concepts and advanced forensic science services in Connecticut.

In 1975, Dr. Lee joined the University of New Haven, where he created the school's Forensic Sciences program. He has also taught as a professor at more than a dozen universities, law schools, and medical schools. Though challenged with the demands on his time, Dr. Lee still lectures throughout the country and world to police, Universities and civic organizations. Dr. Lee has authored more than two hundreds of articles in professional journals and has co-authored more than 40 books, covering the areas, such as; DNA, Fingerprints, Trace Evidence, Crime Scene Investigation and Crime Scene Reconstruction. He is the author of some best sellers, such as Famous Crimes Revisited, Cracking Cases: the science of solving crimes, Blood Evidence, and Cracking More Cases. In addition, his textbooks such as Forensic Science, Physical Evidence and Henry Lee's Crime Scenes

Handbook have been widely adopted in medical legal and forensic professions. He has appeared in many TV shows and movies. His new television series, Trace Evidence – Dr. Henry Lee File has received high ratings and has been broadcasted around the world.

Dr. Lee has been the recipient of numerous medals and awards, including the 1996 Medal of Justice from the Justice Foundation, and the 1998 Lifetime Achievement Award from the Science and Engineer Association. He has also been the recipient of the Distinguished Criminalist Award from the American Academy of Forensic Sciences (AAFS); the J. Donero Award from the International Association of Identification and in 1992 was elected a distinguished Fellow of the AAFS. He has also received the Lifetime Achievement Award from the American College of Forensic Examiners (ACFE) in 2000, Medal of Honor by the Ellis Island Foundation in 2004, Congressional Recognition for Outstanding services by the US Congress in 2004, Presidential Medal of Honor by the President of Croatia in 2005, Medal of Service from the Ministry of Interior, Taiwan, ROC in 2006, and Gusi Peace Award from the Philippines in 2008.

Dr. Lee was born in China and grew up in Taiwan. Dr. Lee first worked for the Taipei Police Department, attaining the rank of Captain. Dr. Lee came to the United States in 1965, and he earned his B.S. in Forensic Science from John Jay College in 1972. Dr. Lee continued his studies in biochemistry at NYU where he earned his Master's Degree in 1974 and his Ph.D. in 1975. He has also received special training from the FBI Academy, ATF, RCMP, and other organizations. He is a recipient of 30 Honorary degrees: Doctorate Degrees of Science from the University of New Haven, University of Connecticut, Honorary Doctorate of Law from Roger Williams Law School, Mitchell College, American International University and Taiwan Scientific Technology University, Honorary Doctorate Degree in Humane Letters from the University of Bridgeport, St. Joseph College, Armstrong University in Hon Kong, Hwa Tong University in Taiwan, University of Law and Political Science in China, University of Spite in Croatia, International Burch University in Bosnia, in recognition of his contributions to Law and Science.



Robert B. Fried
Senior Vice President of
Forensics
Sandline Global

Robert B. Fried is a seasoned expert and industry thought leader, with 21 years of experience performing data collections and forensic investigations of electronic evidence. Robert is the Senior Vice President and Global Head of Forensics and Investigations for Sandline Global. Robert is a licensed Professional Investigator in Michigan and is a licensed Private Investigator in New York and South Carolina. He is a frequent speaker at industry events and a featured guest on industry podcasts. Robert is the author of the books, Forensic Data Collections 2.0: The Guide for Defensible & Efficient Processes and Forensic Data Collections 2.0: A Selection of Trusted Digital Forensics Content. He is also the author of PI Magazine's Cyber Sleuthing Department, where he shares insightful content on topics relating to digital forensics, eDiscovery, data privacy, and cybersecurity.

Mobile Device Investigations

Heather Mahalik & Jared Barnhart



Heather Mahalik
Senior Director
Community Engagement
Cellebrite

Heather Mahalik is the Senior Director of Community Engagement at Cellebrite. At the SANS Institute, Heather is the DFIR Curriculum Lead, fellow instructor, as well as the author & the course lead for FOR585: Smartphone Forensic Analysis In-Depth. Heather also maintains www.smarterforensics.com, where she blogs and hosts work from the digital forensics community and is the co-author of Practical Mobile Forensics (1st -4th editions), currently a best seller from Pack't Publishing. Heather has worked on high-stress and high-profile cases, investigating everything from child exploitation to Osama Bin Laden's media, and has helped law enforcement, eDiscovery firms, and the federal government extract and manually decode artifacts used in solving investigations around the world. She recently was a guest on the CUOMO show discussing the importance of digital media in investigations in regard to the Gilgo murder investigations. Heather began working in digital forensics in 2002, and has been passionate about mobile forensics since 2010 - there's hardly a device or platform she hasn't researched or examined or a commercial tool she hasn't used.



Jared Barnhart
Digital Intelligence Specialist
Cellebrite

Jared Barnhart served as a police officer in Maryland for more than ten years where he held different roles from patrol officer to Detective Sergeant. His career in digital forensics started with mobile devices in 2012, which quickly became his passion. He was a member of the Maryland Internet Crimes Against Children Task Force and USSS Electronic Crimes Task Force. During his time in law enforcement he was accepted and qualified by Maryland courts as an expert in mobile device forensics, computer forensics and cellular technology and records analysis. After law enforcement, Jared worked on a US government contract supporting a counterterrorism and counter-intelligence mission. Jared has always been a proponent of manual decoding, and understanding where the data is and why. He now studies the file systems of Android and iOS devices and understands that with adequate testing, you can confidently explain any forensic artifact you find.

Jared is a Digital Intelligence Specialist with Cellebrite on the Market Research and Engagement Team.

Cryptocurrency Investigations

Terence A. Monahan & Joe Saar



Terence A. Monahan
CEO

Monahan Consulting, LLC

Terence A. Monahan is currently the CEO of Monahan Consulting, LLC where he challenges traditional thinking to develop actionable solutions through professional advice and guidance. Specializing in cryptocurrency investigations, event production permitting, security, and corporate security, Monahan Consulting, LLC advises public and private organizations on high-level decisions grounded in deep knowledge and experience in a wide range of issues faced by industry leaders.

Terence Monahan was the Senior Advisor for Recovery Safety Planning at the New York City Economic Development Corporation. In this role, he advised the New York City Mayor on the city's COVID recovery while working with all communities, city agencies, private business, and the nonprofit sector to determine concerns that need to be addressed throughout the pandemic. Helping to lead the COVID Recovery Task Force, Mr. Monahan is developed solutions, troubleshooting safety and security issues, and listening to ideas across the five boroughs in order to ensure a recovery in every corner of New York City.

Terence Monahan joined the New York City Police Department in January 1982, and began his career on patrol in the 41 Precinct in the Bronx. During his four-decade career in the NYPD, he rose through the ranks to reach the highest uniformed position – Chief of Department. In his role as Chief of Department, Mr. Monahan was responsible for the NYPD's day-to-day operational and administrative functions. This includes overseeing the department's six bureaus and respective chiefs, as well as leading 36,000 sworn police officers and an additional 16,000-member professional staff. During his role as Chief of Department, he spearheaded major technology initiatives, including the department's policy on the utilization of drones. He was also in charge of the NYPD's CompStat program, which has been adopted across the country by public and private agencies alike. Mr. Monahan has also advised police departments across the world – such as Thailand, Dubai, France Ireland, Israel, Jordan, and Toronto – on the successful policies and procedures accomplished throughout his tenure, as well introducing successful, new law enforcement initiatives to these agencies worldwide.

Prior to being selected as the Chief of Department, Mr. Monahan commanded police precincts in the Bronx and Manhattan. In 2015, he helped lead the team that created new policy and infrastructure for the department's 20,000-member Patrol Services Bureau during the development of NYPD Neighborhood Policing – the policing philosophy that reduced murders, shootings, and total crime to never-seen-before lows while bringing New York's Finest closer to the people they serve. In 2016, Chief Monahan was selected to be the Chief of Patrol. In that position, he oversaw 76 police precincts across New York City and the complete implementation of NYPD

Neighborhood Policing. Born and raised in the Bronx, Chief Monahan holds a Bachelor of Arts degree in Liberal Arts from Fordham University. He has recently completed the National Executive Institute, a premier executive training hosted by the Federal Bureau of Investigation. In 2018, Chief Monahan was awarded the Ellis Island Medal of Honor, presented to individuals who distinguish themselves by their contributions to society.



Joe Saar
Training Specialist
Chainalysis

Joe Saar is a Training Specialist with Chainalysis; the blockchain data platform. Prior to joining Chainalysis, Joe was a Detective, and an FBI Task Force Officer in the Costa Mesa Police Department's (CMPD) Special Investigations Unit. His assignments included investigations into Hi-Tech crimes, human trafficking, major narcotics / money-laundering, and violent crimes. In addition to his primary duties as a Detective, Joe was a firearms instructor, and a member of the CMPD's SWAT Team. Joe still serves as a Reserve Detective with the CMPD. Prior to joining the CMPD, Joe served as an Infantry Officer in the United States Marine Corps. Joe holds a Bachelor's Degree in Government and Politics from St. John's University in Queens, New York, and a Master's Degree in Business (MBV) from the Marshall School of Business at the University of Southern California.

Forensic Fundamentals in Innovation

Jon Rowe & Ryan Parthemore



Jon Rowe
CEO and Founder
Pinpoint Labs

Jon Rowe is the CEO and founder of Pinpoint Labs, a trailblazing company in digital forensics and eDiscovery. With a background as a Certified Computer Examiner (CCE) and software developer, Jon's innovative leadership led to the creation of cutting-edge eDiscovery collection tools like Harvester, SharePoint Collector, SafeCopy, Pinpoint Cloud, and CrossCopy. Before his tenure at Pinpoint Labs, Jon co-founded Image Capture Engineering (ICE). He was the original designer and developer for the industry-leading document scanning application, Legal Access Ware (LAW). His expertise also extended to leading the Z-Print and LAW PreDiscovery development teams. These groundbreaking applications helped kickstart the eDiscovery industry and caught the attention of industry giant LexisNexis, leading to their acquisition in 2007. Jon's unwavering dedication to advancing technology in the legal and digital forensics sectors continues to empower professionals worldwide in their digital investigations.



Ryan Parthemore

Director of Enablement,
SaaS Solutions
Cellebrite

Ryan Parthemore joined Cellebrite as a SaaS evangelist following his extended tenure within law enforcement. A veteran in the industry, Ryan has over 20 years of experience as a patrol officer, detective, and technical lead in a government digital forensics laboratory. During his time in law enforcement, Ryan has completed hundreds of hours of training in digital forensics, performed thousands of digital forensics examinations, represented his unit through ANAB ISO 17025 accreditation, and testified as an expert witness in state and federal court. Ryan moved to Cellebrite to utilize his expertise to help others in law enforcement find more effective ways to resolve cases.

Closing Statements

Dr. Henry C. Lee & Robert B. Fried

Thank you to all of the companies participating

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