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Wet-vacuum forensic DNA sampling increases capabilities to collect essential DNA material

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When investigators are processing a crime scene or reviewing items in the lab for biological evidence, choosing the most effective and appropriate collection method is essential. Common methods typically available include swabbing, cutting, scraping and taping, and these techniques have been the mainstay of forensic DNA collection. In recent years, the importance of DNA evidence in solving both active and cold cases has increased dramatically, and much of society expects technological advances in all areas of obtaining viable profiles. As a result, billions of dollars have been invested to improve the technologies and processes that contribute to a better DNA profile. However, the front end of that process, the collection of DNA material, is still a frontier with room for significant improvement, especially the collection of materials from large, rough and/or porous surfaces. The M-Vac, a wet-vacuum collection system, focuses on that area. M-Vac Systems[®], Inc. (MSI), is helping investigators solve more crime through providing a more sensitive and scalable forensic DNA collection method. As a major innovation in surface sample collection, MSI's advanced wet-vacuum sampling device enables experts to better locate DNA material, leading to stronger DNA profiles and more cases being solved. Effective micro-particle testing is based on the three principles: collection, concentration, and detection, and each is equally critical. The M-Vac System raises the collection standard, and has potential to dramatically improve surface sampling capabilities in nearly every scenario. In both the research setting and in actual casework, the M-Vac has differentiated itself from other methods, proving its value to law enforcement, the forensic sciences and society.

Biography

Jared Bradley is the President and CEO of M-Vac Systems, the manufacturer of the M-Vac and the leader in wet-vacuum forensic DNA collection. He is a 14 yr US Army Veteran, specializing in chemical and biological warfare. He has a BS from Brigham Young University and recently completed his MBA from Strayer University. He has traveled all over the US, to Europe, Africa and Asia training police agencies and forensic scientists on this new DNA collection technique.

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