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It was requested that I, Dr. Monte Miller, Director of Forensic DNA Experts LLC, render a written opinion on the INQUISITOR, a secret science detection machine found at (<http://forensicrecoveryervices.org/breakthrough>). While other statements or claims regarding this machine's abilities were noted, both on the website and elsewhere, I concentrated on these 4 claims and needed to go no further to render an opinion. The machine is operated by Dr. Arpad Vass, a research scientist in death and decomposition.

Website claims:

- A. ... put it to the test at graveyards. Example: if you say your great, great, great grandfather is buried amongst 20,000 gravestones, Dr. Arpad Vass [can] put a sample of your DNA (fingernail clippings) in his machine and with about 85% accuracy, his machine will point right at where your grandfather rests in his grave.
- B. The INQUISITOR has a range, depending on the terrain, of up to 30 miles.
- C. ... workable machine which has already located clandestine graves in numerous venues.
- D. ... it can detect a single drop of blood that is over twenty years old.

Conclusion

It is my opinion that: The INQUISITOR is a hoax. The claims could be easily verified, but are followed by no research, proofs, or any substantial reason to believe the INQUISITOR can actually perform the abilities claimed. In fact, I find instances of failure but no verifiable successes. I therefore find these 4 claims to be absurd, meritless, and/or false.

Comments:

The secrecy surrounding the INQUISITOR generates questions that can be answered by demonstrating the device in a proper setting. This would not divulge any proprietary information. Considering that patents have been granted, as well as the immense value that a device like this could have in the many venues world-wide, it is incumbent upon a true scientist to provide proofs. No proof was provided on the website, and I was unable

to locate any instance of this machine in the media carrying out even one of these duties as described.

In this case, I strongly considered the simplicity of scientific proof (described below), as well as the poor results when used live (such as the Barker Ranch), as well as no actual demonstration of positive results, in forming this opinion. These considerations are reflected strongly in the opinion below.

Reported Successes

The successes described by the media sound promising, but are empty. One article, Potential lead in Kristen Modafferi cold case goes uninvestigated (<https://www.sfgate.com/local/article/Kristen-Modafferi-cold-case-Oakland-Jayne-DNA-13005068.php>) states that they found DNA outside in decomposing material from 21 years prior. Dr. Vass, as a research scientist, who specializes in body decomposition and testing, did not confirm this decomposing material by typical methods, and instead stated the police should do this; indicating that no actual probative results were produced. Additionally, the DNA detected was consistent with her parents, still living in the house. If DNA from outside matched Kristan Modafferi, long dead, it would be significant; however, DNA that matches her living parents anywhere in and around their own house is normal. This is highly misleading and, in fact, it was misunderstood by her father and reported as her DNA in an earlier article, and corrected by Dr. Vass in this article. This appears to be taking advantage of people that are in in desperate hope of any useful information; AND NOT A SUCCESS.

Therefore, the statement that decomposing material was found is unsubstantiated, and the DNA detected is not relevant. This article describes a failure, but it is disguised as a success where the police failed to act.

Any article that I could find suggesting success(es), were either actual failures (similar to the story above), or the success was not related to the INQUISITOR. Not one SUCCESSFUL endeavor connected to the INQUISITOR could be located, though there were many opportunities for it to demonstrate its prowess.

Disclaimer:

Dr. Vass, as a respected research scientist in his own right, and in this general field, should be extended every opportunity to scientifically prove the INQUISITOR. However, following this same thread, he is also well aware of the necessity of proper proof before

peer review scientists, and has not availed himself of this opportunity (as far as I can tell).

Many aspects of this opinion fall well within my experience and training, and many parts of it are areas outside of my typical expertise. Someone with a scientific background, some understanding of the all the material, coupled with a detailed understanding of some of the material must be called upon for this type of analysis to take place. This is particularly true with a secret science machine. I feel that I am a reasonably well-suited for an analysis of whether this machine is useful in a forensic setting, given my forensic crime scene as well as forensic biology/DNA background. Please give more weight to my opinion in these areas.

For my part, I googled the subject, read the official INQUISITOR website, and read/watched media articles and videos, until the results became predictable. I do not doubt the tried and true dogs, ground penetrating radar, soil composition testing, and other established methods, but I could see no instance of this machine providing any benefit to any situation; nor did I see one example of it accomplishing even 1 of its claims in a measurable manner.

I wish to stop far short of calling Dr. Vass a fraud, for there are many things science and I do not fully understand; however, these claims seem so scientifically absurd (emphasis added) to me, that I declare that I believe the INQUISTOR has no chance of fulfilling ANY of the website's claims (let alone all of them).

Discussion

The situation with the INQUISITOR is unique, as is to be expected by any secret science machine. I am going to concentrate on 4 statements (A-D above). While other statements or claims regarding this machine's abilities were noted, they all echo the same logic and fail for the same basic reasoning.

Statement A: "He's put it to the test at graveyards...". This statement begins with a proper research test for this machine, which if completed in front of unbiased peers, would provide great proof of the INQUISITOR's abilities. However, rather than followed by these proofs, the example is a hypothetical. Thus it begins by stating that this testing is completed, but then finishes with unsubstantiated claims instead of facts.

*This suggested test would be my personal test of choice for this machine. One could easily get the nail clippings from 5-10 relatives of different cemetery inhabitants, from a

large cemetery, with varying kinships, and run this test. Dr. Vass could be given these clippings and spend whatever time he needed by himself at the cemetery. This would allow Dr. Vass to keep everything he does secret, yet provide absolute proof that the INQUISITOR works as advertised.

As a DNA expert, and one who regularly sees the DNA results generated from fingernails, as well as one who has read a significant amount of peer review research in this area, I can state that the typical results from DNA testing on fingernails is complex. The DNA is regularly mixed with other people, and in some instances generates a single DNA profile from a foreign source (not the finger's owner). The nails themselves have only a small amount of DNA, and that is only from your mother. Therefore, if the source sample for the INQUISITOR is the DNA on fingernails, it is almost sure to fail regularly. If the source is the DNA in fingernails themselves, then it can only find fingernails from your maternal family.

Therefore, it is my opinion that Statement A is absurd and without merit. (Including other reasons not mentioned here.)

Statement B states that the INQUISITOR has a range of approximately 30 miles.

*Disclaimer: The engineering aspects of this machine are well outside my areas of expertise; however, I am not wholly without training and knowledge in this area. Additionally, it is up to Dr. Vass to fully explain how this machine works, as well as its reputation for failure, in order to fully clear up these issues. Therefore, I have simply attempted, to the best of my ability and training, to explain why it does not work, but this is neither my mandate nor my responsibility here.

What I am doing is attempting to put some scientific basis for my opinion on why the INQUISITOR fails in every setting, and in my belief of why it will continue to do so in every test.

- The machine reportedly (according to the patent) operates by the resonant frequencies of electromagnetic radiation emitting from similar substances.
- There is an extremely small amount, if any, of electromagnetic radiation leaving a buried body that might be free to resonate with the INQUISITOR.

- Scientifically speaking, the inverse-square law, which deals with dissipating electromagnetic energy, makes this an absurd distance for detecting a faint signal generated from the body (or almost anything).
- Additionally, the cacophony of resonant frequencies from nail clippings would not resonate at a frequency equivalent to anything other than other nail clippings. The claim (on INQUISITOR patent) of putting diamonds in the machine to look for diamonds makes more sense, but the claims of the machine's abilities here is significantly more, since the object (body) and target (fingernail clippings) are made from very different things. The differences between the object and target would make them resonate completely differently. They would not resonate with each other if they were within an inch.
- The idea of resonant frequencies is not properly applied here.
- If we were to consider putting bones in the machine to look for other bones it might be helpful, but then we have bones with different DNA.
- I can see no way to properly apply a resonant frequency paradigm between this machine, DNA, fingernail clippings, bones, and buried bodies. This would not work with bodies buried 30 feet away, and certainly not at 30 miles in distance. There is nothing of like-kind to resonate.

Therefore, it is my opinion that Statement B is absurd and without merit.

Statement C is without substance because it claims "workable machine which has already located clandestine graves in numerous venues", yet no corroboration is given or was found.

- This omission cannot be overlooked in light of the background of Dr. Vass as a prominent research scientist.
- Since no record of success could be found, yet instances of failure were available, this statement is false (until proven otherwise).

Therefore, it is a fact that Statement C has been publicly proven false, and must remain so until publicly proven otherwise.

Statement D: "He says it can detect a single drop of blood that is over twenty years old".

This statement is false. A drop of blood on the ground and in the elements is likely to have undergone the complete cycle-of-life breakdown of all of its constituent parts. In

20 years there is nothing left to detect. This statement appears to be a simple way to explain false readings when a body is not located.

Therefore, it is my opinion that Statement D is false, and furthermore, it is specifically designed to claim success, when results are a clear failure.

It is my opinion that: The INQUISITOR is a hoax and is without merit. The website is misleading, contains absurd and false claims, and should be investigated further as important decisions, sometimes from desperate families, are made based on the outcomes.



Dr. Monte Miller, Director

Dec. 17, 2018

Date