

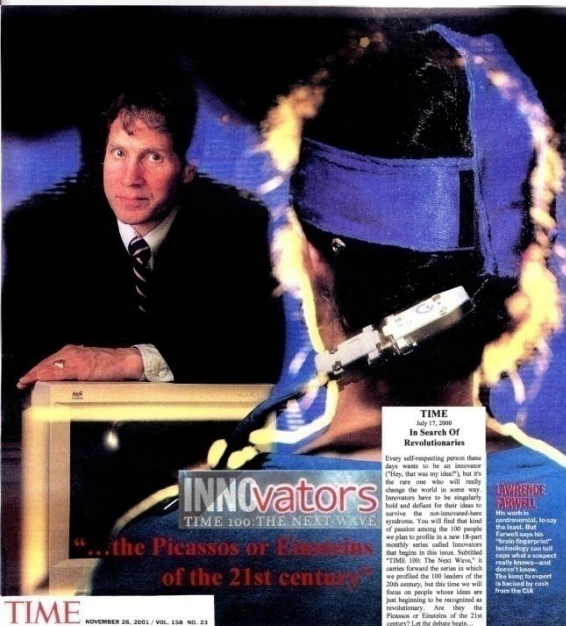
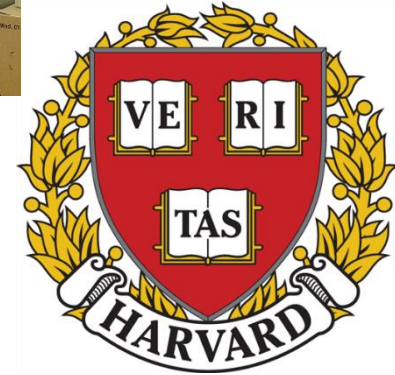
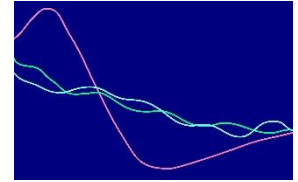


Farwell Brain Fingerprinting:

Meeting the Challenge
in Cybersecurity,
Law Enforcement,
and National Security

Dr. Lawrence Farwell, PhD
Inventor of
Brain Fingerprinting
CEO, Brain Fingerprinting, LLC

Dr. Lawrence (Larry) Farwell , PhD



[Security] **INNOVATORS**
TIME 100: THE NEXT WAVE

Making the World Safer

THE BRAIN SCIENTIST
Climbing Inside
The Criminal Mind

He went to Harvard, works in labs and loves being daring. That's not the typical profile of an anticrime crusader, but Lawrence Farwell is an unusual guy. While developing technology that would allow the justice system to tap into the...
... Here's how it works: Farwell fits a subject with a sensor-fitted headband. By flashing a series of pictures at the screen, he can read the subject's involuntary reactions that begin between 200 and 300 milliseconds after the stimulus. Scientists have studied these "p300 latencies" for years. Farwell's device, combined with other measures—he has patented which ones he looks at—the can determine if a subject is familiar with anything from a phone number to an al-Qaeda code word.
... The brain scientist...
... He works...
... Farwell...
... Farwell's firm...
... Farwell...
... The thing...
... From the CIA.

For nations at war, technology has always been an unsteady ally. Yes, the Great Wall kept China's marauders at bay, at least for a while, but all the weaponry America brought to bear on the Vietnamese—from napalm to the B-52s—couldn't win their hearts and minds. In our present war, we will rely more than ever on technology: the drone missiles that target a terrorist leader; the vaccines that protect against biological weapons; the lines of code that render a computer impervious to cyberterrorists. As the public debates whether it's able to fly again, high-tech innovations promise to do everything from proactively identifying passengers at the gate to automatically returning hijacked planes safely to earth.
The men and women who dreamed up these technological wonders probably never imagined that civilization would someday rely so heavily on their ingenuity, but hence rarely become so by their design. There is no guarantee, of course, that their creations will be used only for good. At Boston's Logan Airport, where the plans that hit the World Trade Center began their flight, the security codes to Jetway doors were often scribbled in pencil next to the locks. Technology can always be sidestepped by human error.
So, give us the genius, but grant us the wisdom to know science alone will never make us perfectly secure.
—By Matthew Cooper

Photograph for TIME by Thomas Michael Allison

See other side for the New York Times

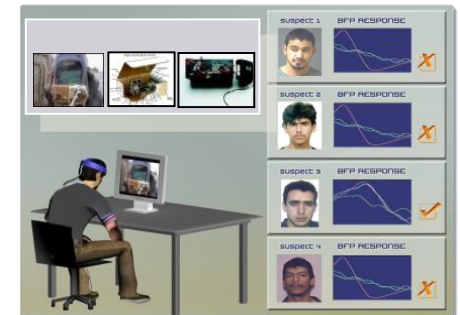


Dr. Drew Richardson



Farwell Brain Fingerprinting

- New paradigm in Criminal Investigations
- Game-changing solution in Cybersecurity and Counterterrorism



Farwell Brain Fingerprinting:

A Game-Changing Solution

- Identifies criminals by detecting concealed information stored in the brain
- Measures a brainwaves (EEG)
- Over 99% accurate in tests at FBI, CIA, US Navy
- Featured on CNN, ABC, CBS, BBC, TIME Magazine and news media throughout the world
- Published in top scientific journals
- Ruled admissible in Court
- Solved major crimes
- Patented
- Contracts with governments: US and in this region



Farwell Brain Fingerprinting

Why are cybercriminals so brazen and aggressive?

Farwell Brain Fingerprinting

Why are cybercriminals so brazen and aggressive?

Because they are sure they won't be caught and brought to justice.

Farwell Brain Fingerprinting

Why are cybercriminals so brazen and aggressive?

Because they are sure they won't be caught and brought to justice.

Why are they unlikely to be brought to justice?

Farwell Brain Fingerprinting

Why are cybercriminals so brazen and aggressive?

Because they are sure they won't be caught and brought to justice.

Why are they unlikely to be brought to justice?

Lack of evidence connecting the crime to the perpetrator.

Bank Robbery

Then and now...

Bank Robbery – In the Past

What is the difference between perpetrators and innocents?

Where is the evidence?



Criminals
robbing a bank



Innocent people
doing their job

Bank Robbery – in the Era of Cybercrime:

What is the difference between perpetrators and innocents?

Where is the evidence?



Criminals
robbing a bank



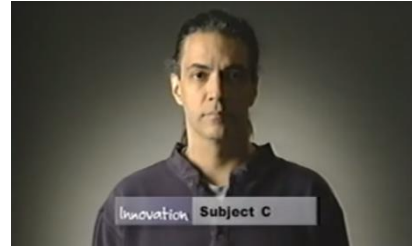
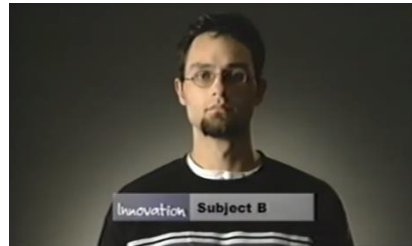
Innocent people
doing their job

A Fundamental Challenge in Investigating Cybercrimes:

Distinguishing criminals from innocents
...Accurately and humanely



How can you solve a crime when there are...



- **Multiple suspects**
- **No physical evidence**
- **No witnesses**
- **No confessions**

A Fundamental Challenge in Cybersecurity Investigations:

Distinguishing criminals from innocents
...Accurately and humanely



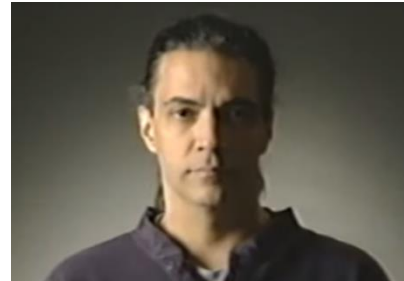
**Brain Fingerprinting presents a game-changing solution by
detecting the record of cybercrime,
terrorism, and other crimes
stored in the brain**

When all you have is suspects



- It is NOT the case that no one knows for certain who the perpetrator is and what he has done.
- The perpetrator knows who he is.
- The perpetrator knows what he has done.
- This information is stored in his brain.
- **They can destroy or hide their computers, but the record stored in their brain remains.**

When all you have is suspects



Farwell Brain Fingerprinting

- Accurately and scientifically detects the record of the crime stored in the perpetrator's brain.
- Identifies perpetrators.
- Exonerates innocents.
- Provides a new source of objective, reliable, probative, scientific evidence.

One of the photos you are about to see is the President of the USA



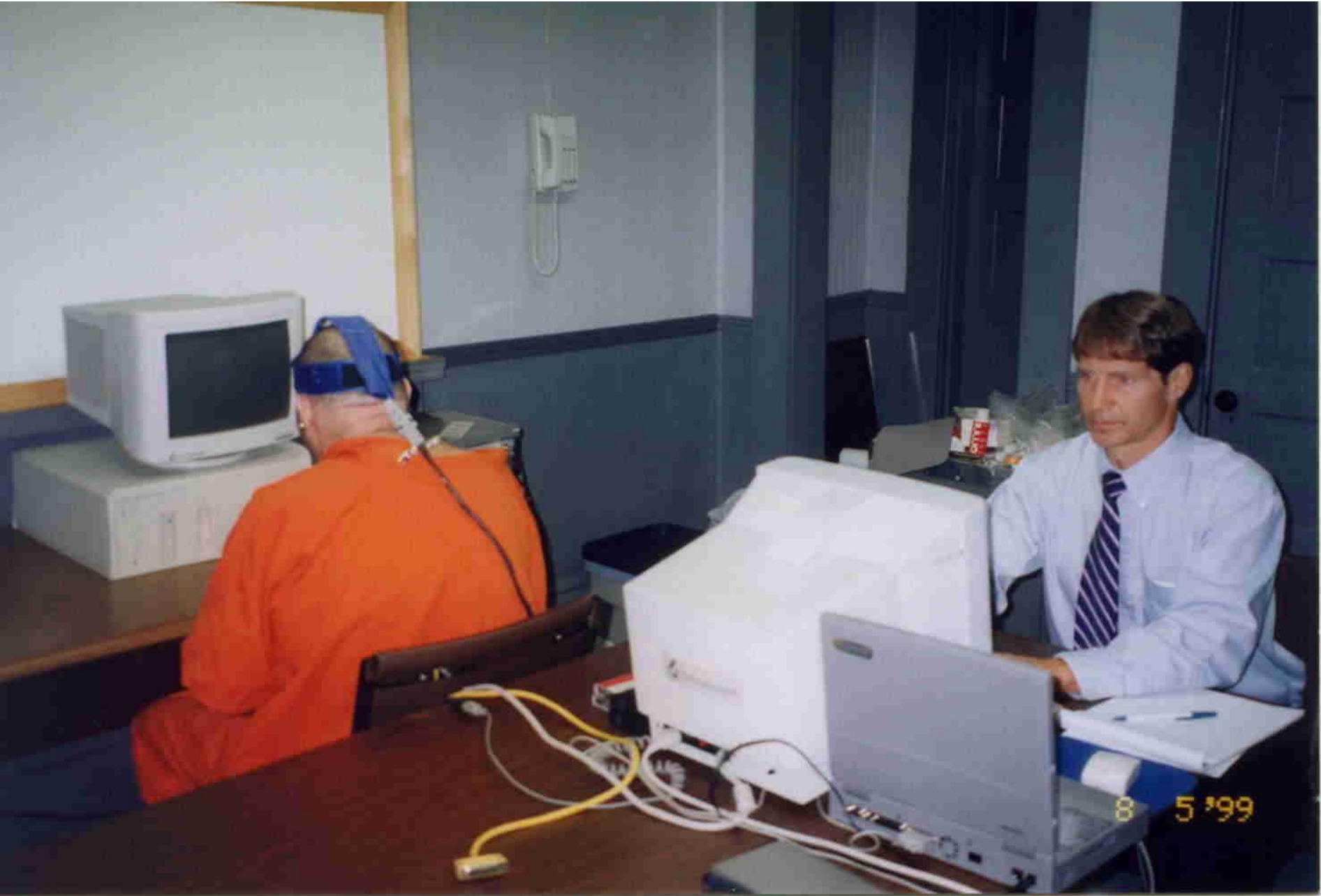




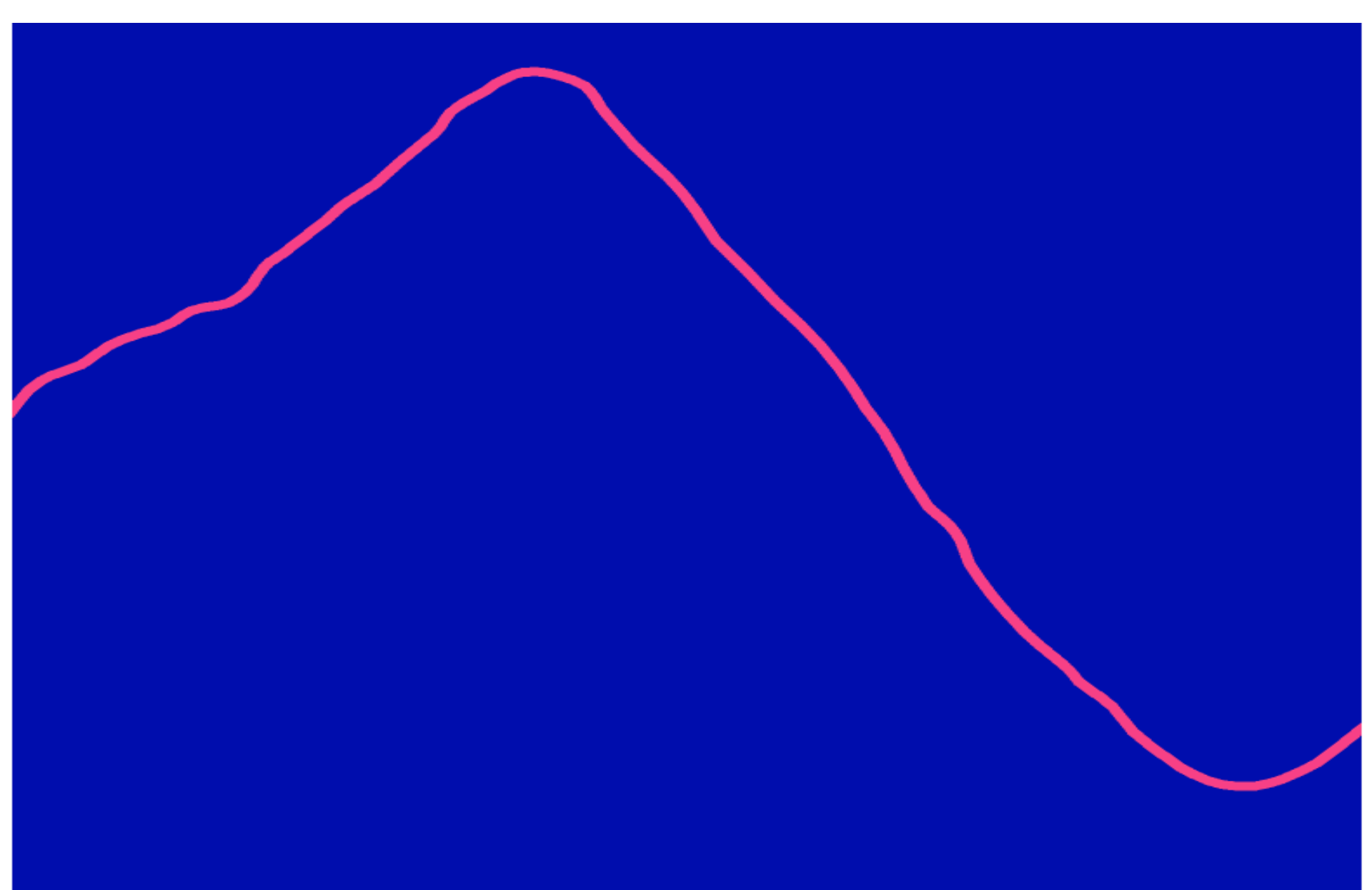




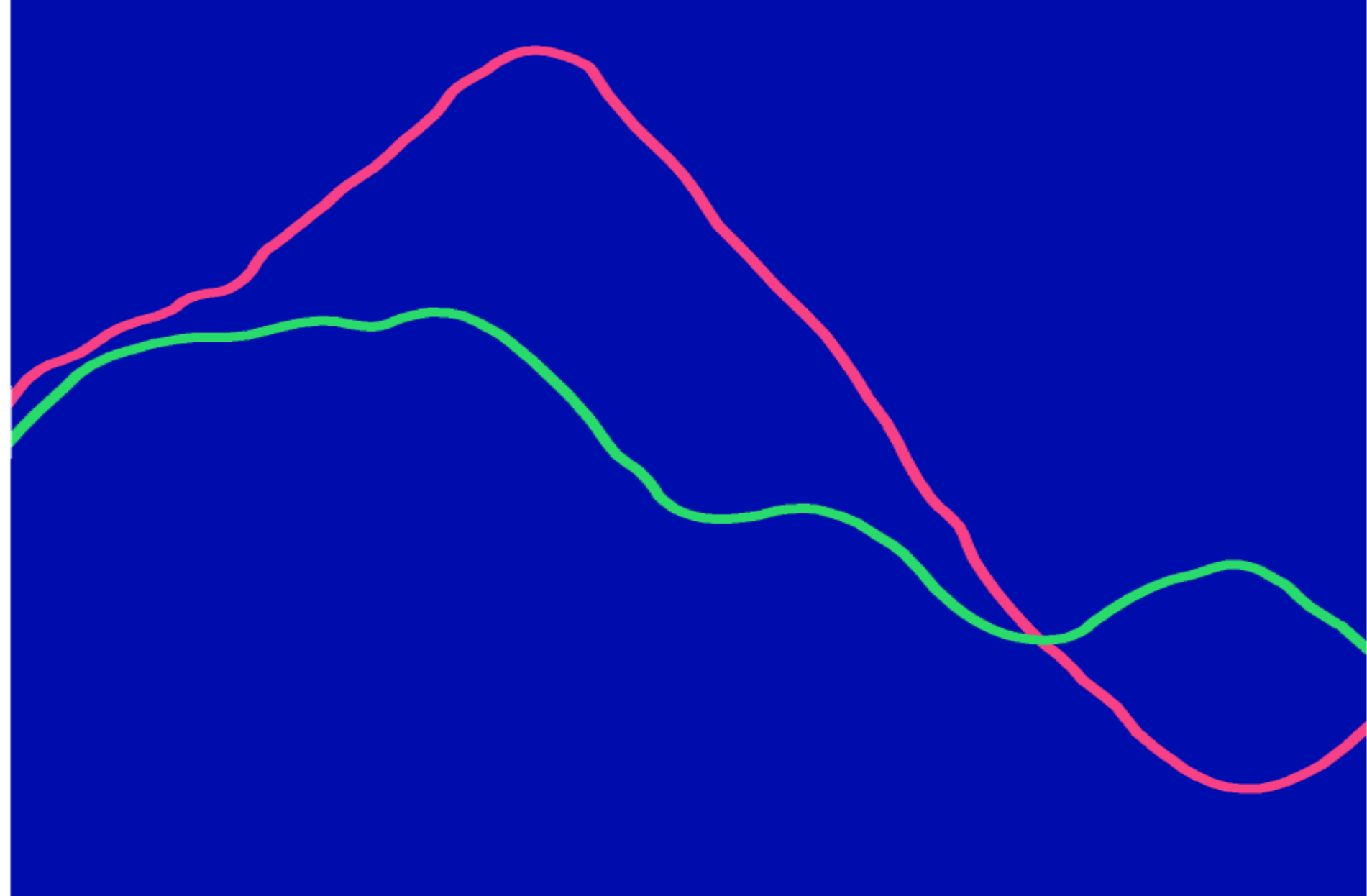




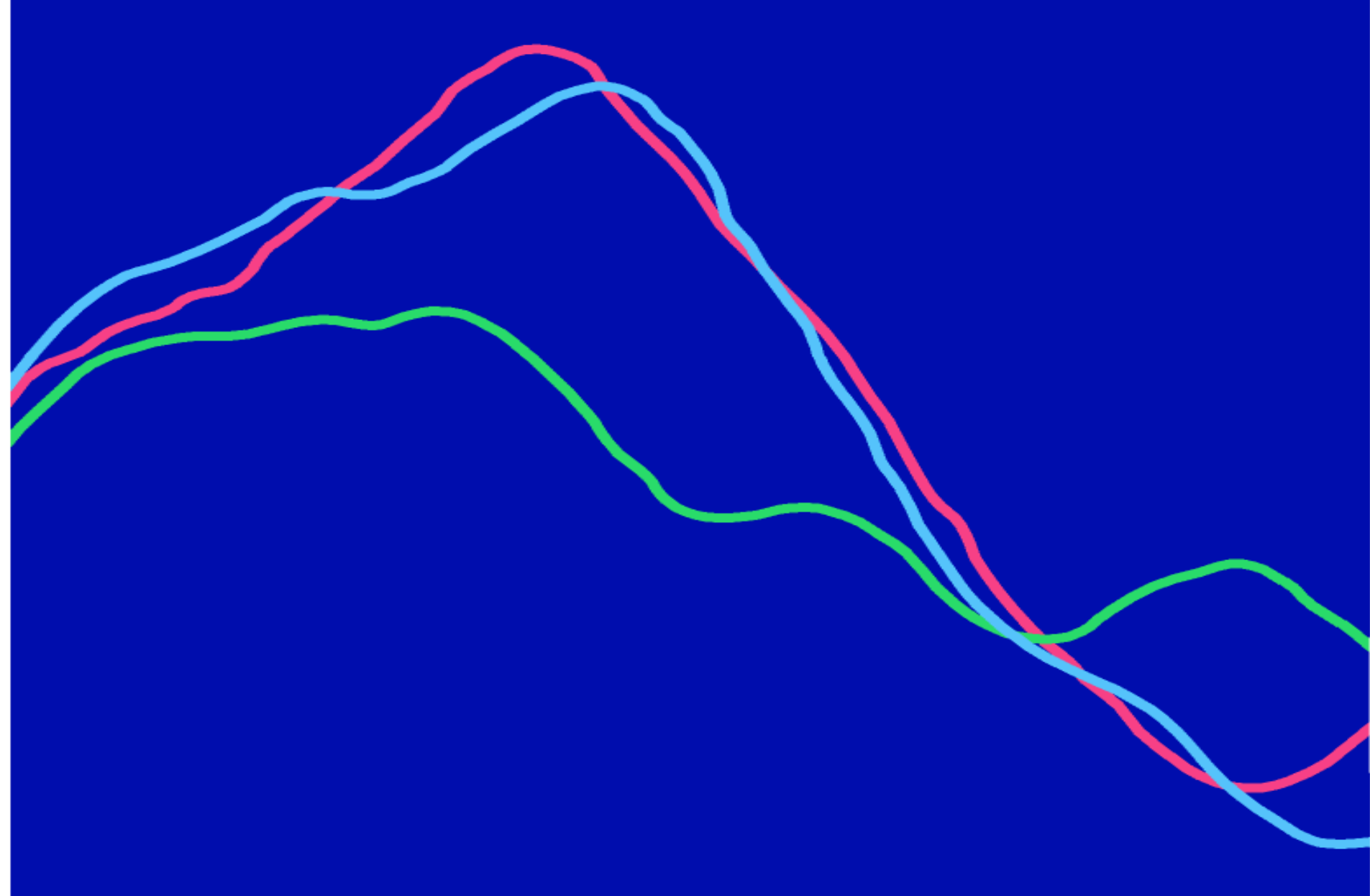
Brain Fingerprinting test on murder suspect J B Grinder by Dr. Farwell



Grinder's Brain-Wave Responses to Crime-Scene Information
Target Stimuli



Grinder's Brain-Wave Responses to Crime-Scene Information
Target and Irrelevant Stimuli



Grinder's Brain-Wave Responses to Crime-Scene Information
Target, Irrelevant, and Probe Stimuli

Brain Fingerprinting Results for JB Grinder

- Determination: **Information Present**
- Statistical Confidence: 99.9%

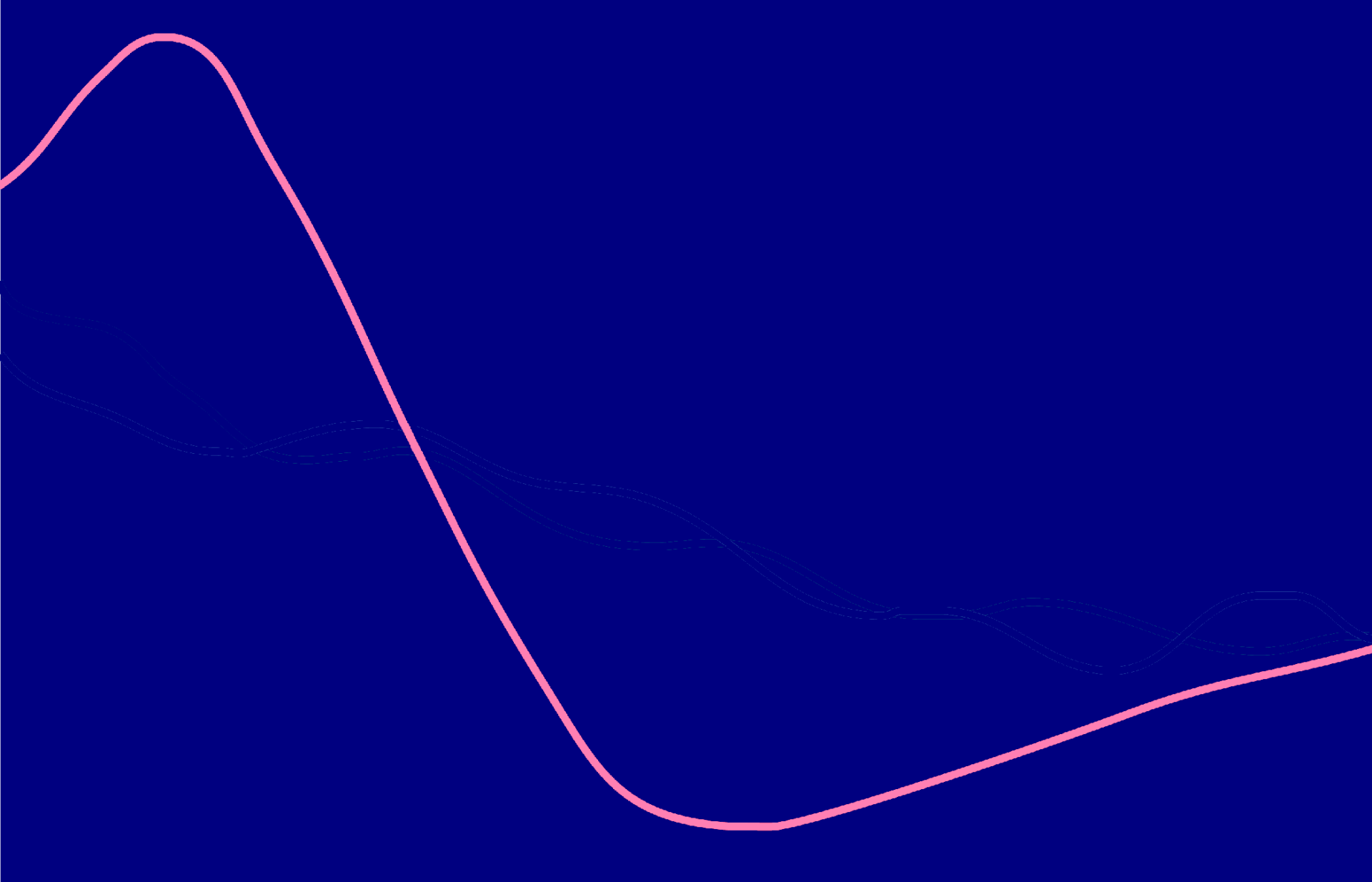


- JB Grinder confessed, pled guilty, and was sentenced to life in prison.

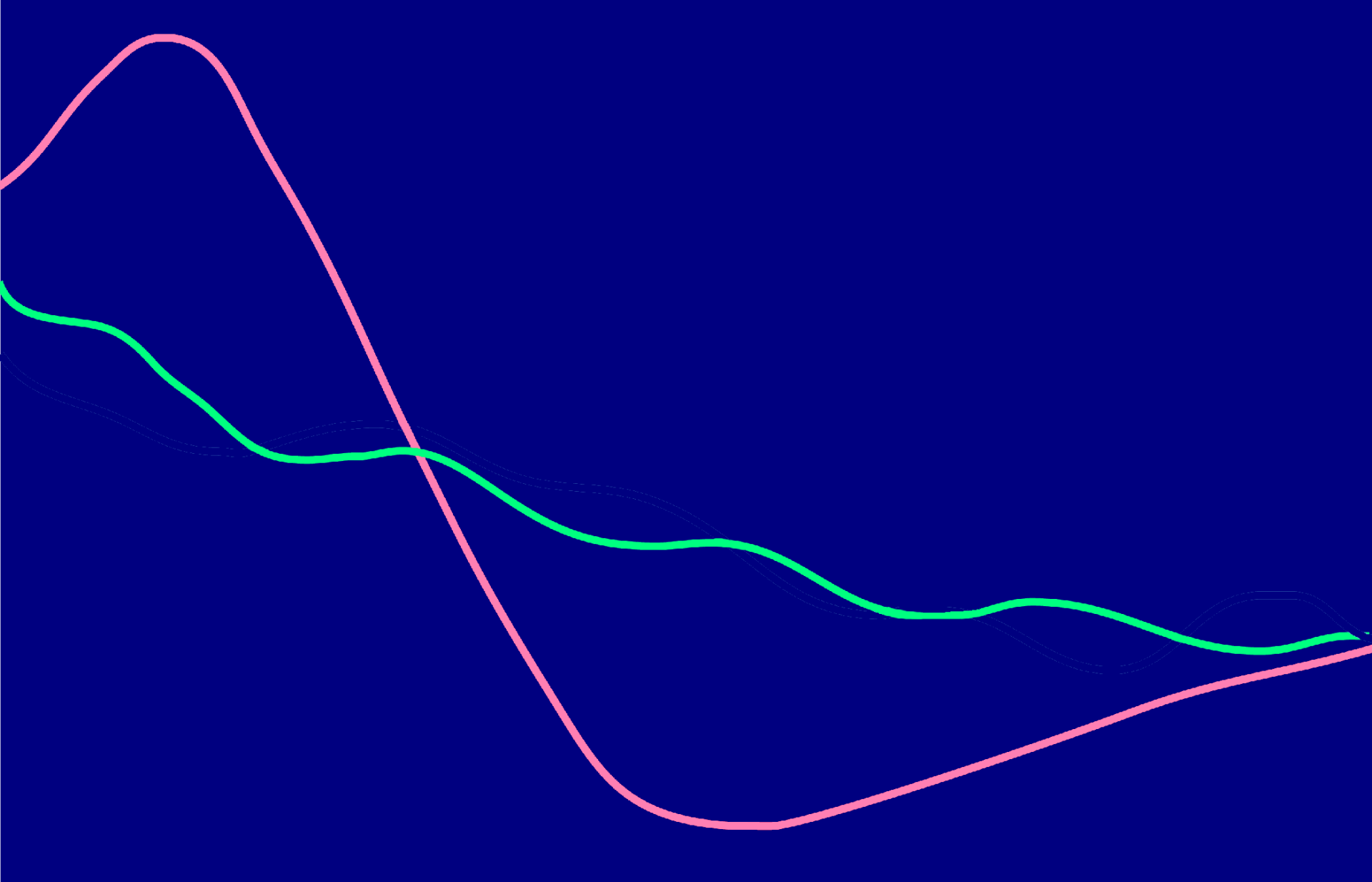




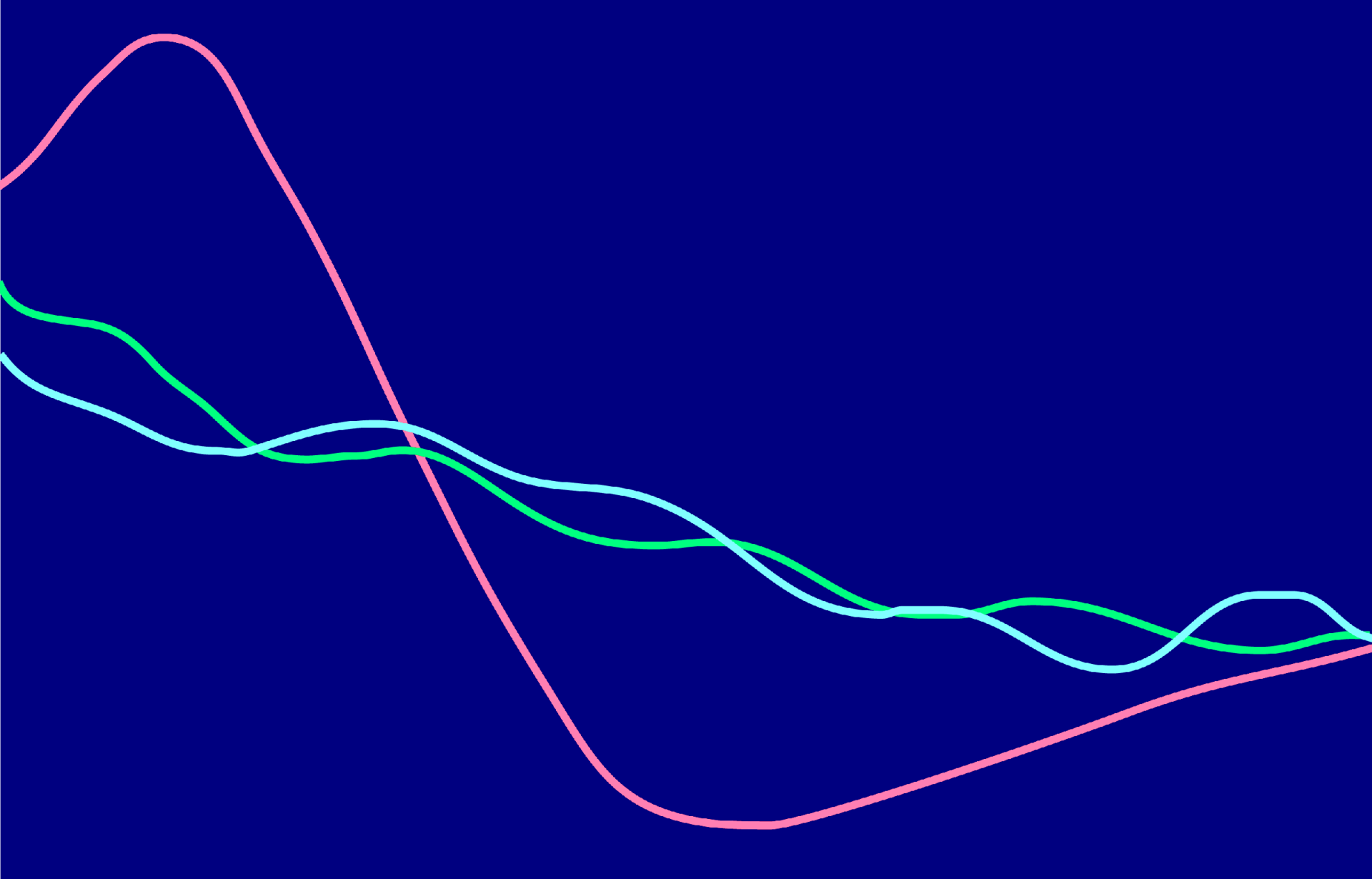
Brain Fingerprinting test on convict Terry Harrington by Dr. Farwell



Harrington's Brain-Wave Responses to Crime-Scene Information
Target Stimuli



Harrington's Brain-Wave Responses to Crime-Scene Information
Target and Irrelevant Stimuli



Harrington's Brain-Wave Responses to Crime-Scene Information
Target, Irrelevant, and Probe Stimuli

Farwell Brain Fingerprinting Results for Terry Harrington

- Determination: **Information Absent**
- Statistical Confidence: 99.9%
- Brain Fingerprinting was ruled admissible as scientific evidence in court.



- Harrington was released from prison based on a constitutional rights violation in the initial trial.



Farwell Brain Fingerprinting – How It Works

- Accurately detects information stored in the brain
- Present stimuli – words, phrases, or pictures
- Detects a unique, automatic “Aha!” response
- P300-MERMER in brainwaves (EEG)
 - when relevant stimuli are recognized
- Computes “information present” or “info absent”
 - and statistical confidence
- Non-invasive, humane, and non-stressful
- Detects information, not lies, stress, or guilt

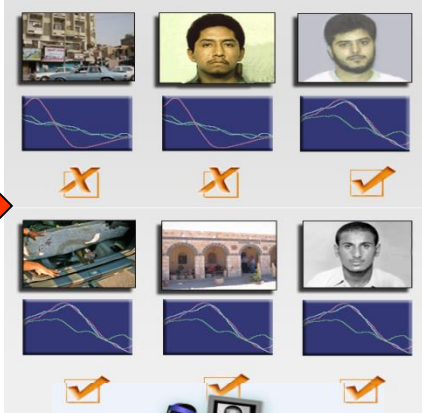
Which one is an FBI agent?



Which one is an FBI agent?



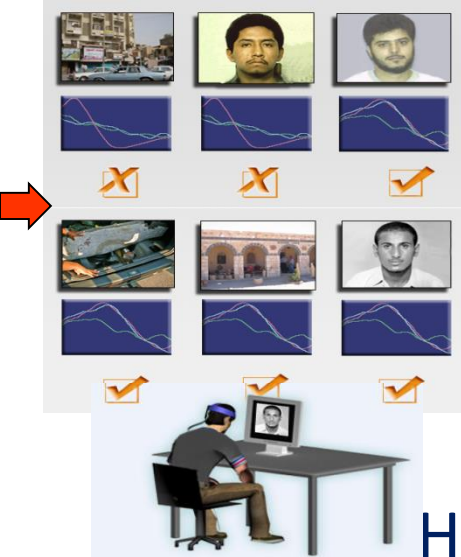
Farwell Brain Fingerprinting Cybersecurity Investigations



Humane, non-intrusive, highly accurate means of obtaining information while preserving human rights

- Cybercriminals can no longer remain undetected
- They know who they are, what they've done
- If they know, we can know
- Cybercriminals may leave no physical evidence of their crimes
- Cybercrime is highly information intensive
- Cybercriminals know specific details about exactly how the crime was committed
- Brain Fingerprinting detects those details stored in the brain of the perpetrator

Farwell Brain Fingerprinting in Counterterrorism

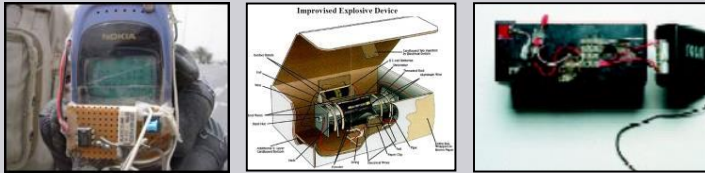


Humane, non-intrusive, highly accurate means of obtaining information while preserving human rights

- Terrorists can no longer remain undetected
- They know who they are, what they've done
- If they know, we can know
- Detect perpetrators and planners of terrorist acts
- Detect trained terrorists, bomb makers, etc.
- Detect links between a suspect and known terrorist people, organizations, and operations
- Reverse engineer the terrorist networks

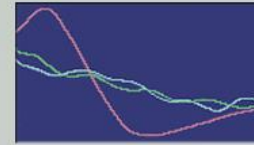
Farwell Brain Fingerprinting Detects IED (Bomb) Knowledge

IED Knowledge Test



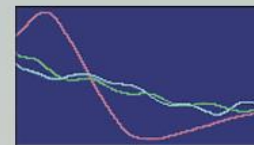
suspect 1

BFP RESPONSE



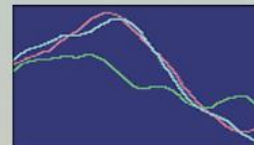
suspect 2

BFP RESPONSE



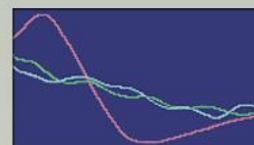
suspect 3

BFP RESPONSE



suspect 4

BFP RESPONSE



Brain Fingerprinting Certification Board

Requirements for Brain Fingerprinting Personnel and Technology



- Brain Fingerprinting Experts must be tested and certified by the Brain Fingerprinting Certification Board.
- Brain Fingerprinting Experts must be fully trained by a Brain Fingerprinting Scientist certified by the Brain Fingerprinting Certification Board.
- Technology must be approved and certified by the Brain Fingerprinting Certification Board.
- Testing protocols must meet the Brain Fingerprinting Scientific Standards.



Brain Fingerprinting, LLC

Dr. Larry Farwell, CEO

Farwell Brain Fingerprinting

Brain Fingerprinting, LLC Scientists, Experts, and Technology are certified by the Brain Fingerprinting Certification Board.

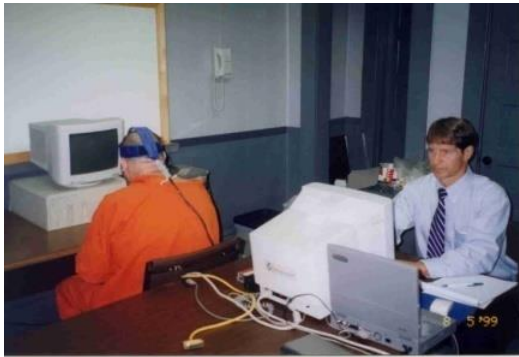


Brain Fingerprinting, LLC Scientists and Experts are personally trained by Dr. Larry Farwell, the inventor of Brain Fingerprinting.

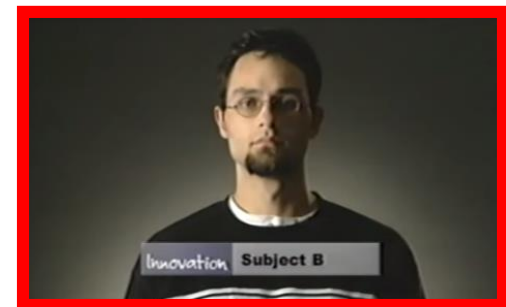
Caveat Emptor

Several companies in India and the USA falsely claim to offer “Brain Fingerprinting” but are **NOT** qualified or certified.

Some also falsely claim to be associated with Dr. Farwell or to offer the technology he invented.

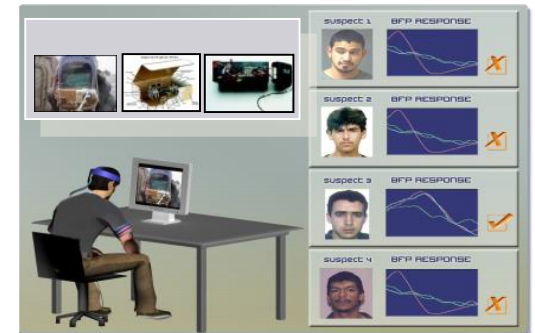


Farwell Brain Fingerprinting provides a previously unavailable level of objectivity and accuracy in determining the truth.



Farwell Brain Fingerprinting Technology

- New paradigm in Criminal Investigations
- Game-changing solution in Cybersecurity and Counterterrorism



Brain Fingerprinting, LLC

Farwell Brain Fingerprinting

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