### **HANDOUT 7**

# INNOCENCE PROJECT

# **Changes in Forensic Science**

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## DNA EXONERATIONS

- Litigation and Policy Reform
- >350 exonerees
- > Leading contributors
  - > eyewitness misID
  - > false confessions
  - misapplied forensic science
  - > informant testimony
  - >government misconduct





Misapplied Forensic Science (46%)



# What does that mean?

# Misleading Testimony

Mistakes

Misconduct

# **Keith Harward's Story**



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# From a Trickle to a Flood

- ➤ National Fire Protection Agency Report (1992)
- >FBI ceases use of CBLA or "bullet analysis" (2005)
- ➤ National Academy of Sciences report (2009)
  - ➤ Forensic Odontology or "bitemarks" found to have no scientific basis
  - > Hair microscopy could not be used to identify individuals
- >FBI Hair Review (2015)
  - **►** Examined 268 cases in which microscopic hair analysis was used to convict
- >PCAST Report (2016)



### FBI HAIR REVIEW

In 2015, the FBI conducted a massive audit of cases involving the use of microscopic hair analysis, or "hair matching."

3000 cases were identified involving such evidence. Of those that have been reviewed, the FBI found:

Twenty six out of 28 FBI examiners/analysts either provided testimony containing errors or submitted lab reports with errors

In 96% of cases (n=268) where examiners testified at trial on hair evidence which was used to link a defendant to a crime, there were serious errors in their testimony

In at least 35 of those 268 cases, defendants received the death penalty. Of these defendants

- Nine have been executed
- •5 died on death row of other causes



The FBI has trained *hundreds* of state hair examiners in the same flawed methodology.

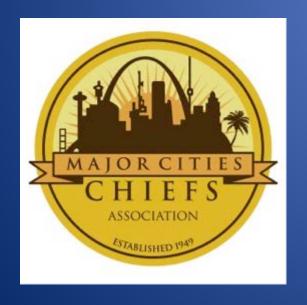




Support for Review













# **Statutory Reform**

### Texas (2015)

- Creates mechanism for relief based on scientific evidence that was either unavailable at time of trial or contradicts scientific evidence presented by the state at trial
- > Minimal fiscal note

### California (2014)

Expands definition of false evidence to include expert repudiation or impeachment on the basis of later scientific research or technology

# **Solutions?**

In the absence of a remedy through caselaw, the legislature can step in to <u>create a clear</u> <u>pathway</u> for application for relief based on new scientific research and technology.

- Creates efficiencies for the court
- Demonstrates a robust and adaptive system of justice
- Pathway for the innocent to regain lost liberty
- Increase public confidence in the system

