

# FORENSIG SCIENCE



Basic principles of forensic science for an introductory overview course.

#### OVERVIEW

#### Key Concepts of Forensic Science

- Application of a scientific method, tool, or technique. to aid an investigation or judicial proceeding
- Used to support or refute hypotheses about how an event occurred.
- Results integrated into the investigation, part of a Langer More
- Many subdisciptions





#### Characteristics of Forensic Data and Results

- Specific and complete, including caveats or limitations.
- Reproducible; another forensic scientist provided with the same evidence and information should obtain the same results.
- Fabrifiable: cesults must be stated such that they can be tested for accuracy and completeness. A specific DNA profile or a specific blood alcohol measurement is falsifiable because the results can be confirmed by scientific testing.
- Relevant to the case at hand. The analysis of a bloodstain sample would be done to obtain the DNA profile; cholesterol level in the blood is irrelevant

#### Selected Historical Figures

#### Alphonse Bertillon (1853–1914; French)

- Used measurements of physical features. for identification called anthropometry or Bertillonage, Replaced by fingerprinting
- · Francis Galton (1822-1911; English)
- Fingerprints.
- Alexander Gettler (1883–1968; American)
- Forensic toxicology, Performed chemical analysis for the New York Office of Chief Medical Examiner (OCME)
- Calvin Goddard (1891–1955; American)
- Comparison microscopy and firearms
- Hams Gross (1847–1915; Austrian) - Coined the term criminalistics.

- Alec Jeffreys (1950-; English).
  - Developed early DNA testing methods
  - First to use DNA typing in a criminal matter (Collin Pitchfork, case):
- Paul Kirk (1902–1970; American)
- Generalist and educator
- Edmond Locard (1877-1966; French)
- Trace evidence, Opened an early forensic Safetora torre
- Credited for Locard's Exchange Principle, paraphrased as "every contact leaves a trace"
- Charles Norrés (1867–1935; American)
- Physician, Early head of the OCME
- Mathico Orfila (1787–1853; Spanish)
- Worked in Italy and France, Forensic
- toxicologist and educator. Utilized the Marsh test for arsenic in the
- LaFarge case. Bernard Spilsbury (1877-1947; English)
- Physician and forensic pathologist

#### Blas and Human Error

- Bias can cause results of a forensic analysis to be influenced by factors other than evidence and tenting results.
- Usually unintended and unconscious
- Can be caused by contextual information irrelevant
- Confirmation bias can occur if a specific result is anticipated or espected
- Prosecutorial bias/defense bias favors a specific side in the dispute

#### Interface with the US Legal System

#### **US legal system**

- Legal system designed to settle disputes.
- Adversarial: based on comparing competing A PROPERTY OF THE REAL PROPERTY.
- Criminal cases
  - Accused/defendant vs. government (local/state/ flexiberrall)
  - Prosecution vs. defense
- Burden of proof on prosecution
- Standard of proof: beyond a reasonable doubt Civil cases
  - Individual vs. individual, corporations, companies, etc.
- Plaintiff vs. defense

#### Relies on precedent-rulings by previous courts

Burden of proof on prosecution

 Jurisdiction: the entity empowered to bear a case local (town, city, county), state, and federal

Standard of proof: preponderance of evidence

Decision rendered by trier-of-fact (judge or jury)

#### US Rules of Evidence

- Process to allow evidence to be presented in a legal. proceeding
- Evidence is admissible if it meets admissibility standards.
- Applies to forensic pesults and data
- Admissibility standards vary across jurisdictions.
- Figure standard
- Informally called general acceptance independently standard
- 1923 muliner
- Decision to reject admission of polygraph (lie-
- Court ruled that to admit new type of test, it must have been accepted within that scientific discipline.
- Federal Rules of Evidence.
  - Congressionally enacted 1975
  - Frequently updated
  - Applies to federal jurisdictions.
- Adopted by other jurisdictions.
- Guidelines for expert testimony
- Daubert standard
  - Informativ called gatekeeper standard
  - 1993 ruling in civil case
  - Trial judge to make admissibility decision:

  - judge as gatekeeper Ruling provided guidelines for making this decision
  - Included general acceptance, validation of method, standards, limitations, and potential entropy of the
- Part of Daubert trilogy of cases.
- "flodner diecission»
- Second of Daubert trillogy
- 1997 ruling in civil case.
- Scientific evidence must be directly relevant
- Kimmho docision.
- Third case of Daubert trilogy
- 1999 culing in civil case
- Extended definition of expert beyond traditional eciences.

#### Quality assurance/quality control (QA/QC)

Practices and procedures used to ensure that forensic data are relevant and transverthy

- Cradle to grave process—from evidence creation to final disposition
- Forensic laboratories can be accredited
- Analysts may be certified in some disciplines
- Methods executed by standard operating procedure.
- Traceability: ability to trace result directly to nationally internationally accepted standard Control samples analyzed with evidence
- Results reviewed by colleagues (peer review)
- Data reviewed and confirmed

#### Laboratory accreditation



- Implement corrective action

- Identify issues

- Prevent future accurrences





Testimony

Sampling

Analyst certification

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the United States A Path Forward In it the Committee expressed the need for accreditation and certification Accreditation long recognized by public labs as an important benchmark in quality was recognized as an important way to standardize laboratories that provide forensic services Certification can play an important role as a method of oversight in the forensic sciences something also recommended by the National Commission on Forensic Science in October 2014 The Complete Guide to the ABC s Molecular Biology is a professional certification examination preparation text for forensic scientists taking the American Board of Criminalistics Examination in Molecular Biology The book serves as a resource for forensic scientists who are facing more and more pressure to become certified to support them in their pursuit of forensic certification In the years since the NAS report was published there has been increased discussion of forensic certification requirements ABC s Molecular Biology exam 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