

# 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 indeposits tribities 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

## **Forensic Science Study Guide Answers Review**

Gilbert Peterson, Sujeet Shenoi

#### Forensic Science Study Guide Answers Review:

Advances in Digital Forensics VII Gilbert Peterson, Sujeet Shenoi, 2011-09-15 Digital forensics deals with the acquisition preservation examination analysis and presentation of electronic evidence Networked computing wireless communications and portable electronic devices have expanded the role of digital forensics beyond traditional computer crime investigations Practically every crime now involves some aspect of digital evidence digital forensics provides the techniques and tools to articulate this evidence Digital forensics also has myriad intelligence applications Furthermore it has a vital role in information assurance investigations of security breaches yield valuable information that can be used to design more secure systems Advances in Digital Forensics VII describes original research results and innovative applications in the discipline of digital forensics In addition it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations The areas of coverage include Themes and Issues Forensic Techniques Fraud and Malware Investigations Network Forensics and Advanced Forensic Techniques This book is the 7th volume in the annual series produced by the International Federation for Information Processing IFIP Working Group 11 9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in digital forensics The book contains a selection of 21 edited papers from the 7th Annual IFIP WG 11 9 International Conference on Digital Forensics held at the National Center for Forensic Science Orlando Florida USA in the spring of 2011 Advances in Digital Forensics VII is an important resource for researchers faculty members and graduate students as well as for practitioners and individuals engaged in research and development efforts for the law enforcement and intelligence communities Gilbert Peterson is an Associate Professor of Computer Engineering at the Air Force Institute of Technology Wright Patterson Air Force Base Ohio USA Sujeet Shenoi is the F P Walter Professor of Computer Science at the University of Tulsa Oklahoma USA Readers' Guide to Periodical Literature ,1915 Readers' Guide to Periodical

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