



OVERVIEW

Key Concepts of Forensic Science

- Applications 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 larger story
- Many subdisciplines

Forensic laboratory



Medical examiner



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
- **Falsifiable**; results 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 Genter (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
- Hans Gross (1847–1915; Austrian)
 - Coined the term **criminalistics**

- Alec Jefferys (1950–; English)
 - Developed early DNA testing methods
 - First to use DNA typing in a criminal matter (Colin Pitchfork case)
- Paul Kirk (1902–1970; American)
 - Generalist and educator
- Edmond Locard (1877–1966; French)
 - Trace evidence. Opened an early forensic laboratory
 - Credited for Locard's Exchange Principle, paraphrased as "every contact leaves a trace"
- Charles Norris (1867–1935; American)
 - Physician. Early head of the OCME
- Mathieu 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

Bias and Human Error

- **Bias** can cause results of a forensic analysis to be influenced by factors other than evidence and testing results
- Usually unintended and unconscious
- Can be caused by **contextual information** irrelevant to the case
- **Confirmation bias** can occur if a specific result is anticipated or expected
- 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 arguments
 - Criminal cases
 - Accused/defendant vs. government (local/state/federal)
 - 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

Quality assurance/quality control (QA/QC)

- Practices and procedures used to ensure that forensic data are relevant and trustworthy
- **Cradle-to-grave process**—from evidence creation to final disposition
- Forensic laboratories can be **accredited**
- Analysts may be **certified** in some disciplines

- Burden of proof on prosecution
- Standard of proof: preponderance of evidence
- **Jurisdiction**: the entity empowered to hear a case—local (town, city, county), state, and federal
- Decision rendered by **trier of fact** (judge or jury)
- Relies on precedent—rulings by previous courts

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 results and data
- Admissibility standards vary across jurisdictions
- **Frigo standard**
 - Informally called **general acceptance** admissibility standard
 - 1923 ruling
 - Decision to reject admission of polygraph (lie detector) test
 - 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**
 - Informally called **gatekeeper** standard
 - 1993 ruling in civil case
 - Trial judge to make admissibility decisions; judge as **gatekeeper**
 - Ruling provided guidelines for making this decision
 - Included general acceptance, validation of method, standards, limitations, and potential errors
 - Part of **Daubert trilogy** of cases
- **Joiner decision**
 - Second of **Daubert trilogy**
 - 1997 ruling in civil case
 - Scientific evidence must be directly relevant
- **Kumho decision**
 - Third case of **Daubert trilogy**
 - 1999 ruling in civil case
 - Extended definition of expert beyond traditional sciences

- Methods executed by **standard operating procedure (SOP)**
- **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



Analyst certification

Forensic Science Study Guide Answers Review

J Spring



Forensic Science Study Guide Answers Review:

The University correspondent and University correspondence college magazine (and The Educational review).
,1891 **Media Review Digest** C. Edward Wall,2004 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Crime Scene Unit Management Edward W. Wallace,Michael J. Cunningham,Daniel Boggiano,2015-12-22 Crime Scene Unit Management A Path Forward is a must have resource for anyone involved with forensic investigations and the search for evidence at the crime scene The book provides standards for how to manage a crime scene so that evidence is collected and preserved without errors and includes guidelines for how to implement the standards and set up regional training programs for smaller jurisdictions with tighter budgets Key features include examples checklists and flow charts for evidence handling and routing CSIs fire investigators homicide investigators accident investigators police executives and students of forensic science will benefit from this thorough approach to how the crime scene and the personnel charged with tending to the evidence should be managed **The School Science Review** ,2007 *Advances in Digital Forensics VII* Gilbert Peterson,Sujeet Sheno,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 Sheno is the F P Walter Professor of Computer Science at the University of Tulsa Tulsa Oklahoma USA Readers' Guide to Periodical Literature ,1915 *Readers' Guide to Periodical Literature*

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 ,1989 **Technical Book Review Index** ,1922 **The Criminal Justice Periodical Index** ,1980 *Science* ,1892
El-Hi Textbooks and Serials in Print, 1995 R R Bowker Publishing,1995-02 *State board examination questions and answers of thirty-four States* ,1908 *Willing's Press Guide* ,2004 Coverage of publications outside the UK and in non English languages expands steadily until in 1991 it occupies enough of the Guide to require publication in parts *The London medical recorder* ,1890 **Academy; a Weekly Review of Literature, Learning, Science and Art** ,1877 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910 Current Law Index ,2003 **Chemical News and Journal of Industrial Science** ,1906

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