



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**

- Alice 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

Cram101 Textbook Reviews



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Forensic Science Suzanne Bell, 2022-11 Essential principles of forensic science for core crime scene evidence collection and evaluation concisely written by expert in the field Suzanne Bell PhD from Los Alamos National Laboratory then professor at Eastern Washington University and Chair of the National Commission on Forensic Science The wealth of answers in this 6 page laminated color coded outline format including diagrams and photos cannot be missed for those studying in this field or for the serious and curious true crime fans looking for the facts about crime scene investigation QuickStudy guides are proven to improve retention test scores and act as a refresher for those professionals beyond study Also buy her Forensic Chemistry Toxicology guide to dig even deeper into evidence analysis and add these powerful and simple to use tools to your library for a price so low it s a crime 6 page laminated guide includes Key Concepts Data Results Historical Figures Bias Human Error Interface with the US Legal System Crime Scenes Processing Evidence Collection Bloodstain Pattern Analysis BPA Pattern Evidence Successive Classification Fingerprints Firearms Toolmarks Tread Pattern Medicolegal Death Investigation Biological Evidence Types of Fluids Presumptive Screening Testing Genetic Marker Systems DNA Typing Chemical Evidence Seized Drug Analysis Toxicology Fire Debris Analysis Explosives Trace Evidence Trace Transfer Evidence Microscopy Analysis Types of Trace Evidence Other Forensic Disciplines Questioned Document Examination Forensic Anthropology Forensic Entomology Forensic Engineering Computer Forensics Behavioral Science

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FORENSIC SCIENTIST I (TOXICOLOGY) National Learning Corporation, 2019

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Table of Contents Forensic Science Study Guide

1. Understanding the eBook Forensic Science Study Guide
 - The Rise of Digital Reading Forensic Science Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Forensic Science Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Forensic Science Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Forensic Science Study Guide
 - Personalized Recommendations
 - Forensic Science Study Guide User Reviews and Ratings
 - Forensic Science Study Guide and Bestseller Lists

5. Accessing Forensic Science Study Guide Free and Paid eBooks
 - Forensic Science Study Guide Public Domain eBooks
 - Forensic Science Study Guide eBook Subscription Services
 - Forensic Science Study Guide Budget-Friendly Options
6. Navigating Forensic Science Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Forensic Science Study Guide Compatibility with Devices
 - Forensic Science Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Forensic Science Study Guide
 - Highlighting and Note-Taking Forensic Science Study Guide
 - Interactive Elements Forensic Science Study Guide
8. Staying Engaged with Forensic Science Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Forensic Science Study Guide
9. Balancing eBooks and Physical Books Forensic Science Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Forensic Science Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Forensic Science Study Guide
 - Setting Reading Goals Forensic Science Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Forensic Science Study Guide
 - Fact-Checking eBook Content of Forensic Science Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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