Forensic Science Timeline

- A Chinese book, Hsi Duan Yu (the washing away of wrongs), contains a description of how to distinguish drowning from strangulation. This was the first recorded application of medical 1248 knowledge to the solution of crime.
- 1609 The first treatise on systematic document examination was published by François Demelle of
- In Lancaster, England, John Toms was convicted of murder on the basis of the tom edge of wad 1784 of newspaper in a pistol matching a remaining piece in his pocket. This was one of the first documented uses of physical matching.
- 1810 Eugène François Vi doc q, in return for a suspension of arrest and a jail sentence, made a deal withthe police to establish the first detective force, the Sûreté of Paris.
- Mathiew Orfila, a Spaniard who became professor of medicinal/forensic chemistry at University of Paris, published Traite des Poisons Tires des Regnes Mineral, Vegetal et Animal, ou 1813 Toxicologie General I. Orfila is considered the father of modern toxicology. He also made significant contributions to the development of tests for the presence of blood in a forensic context and is credited as the first to attempt the use of a microscope in the assessment of blood and semen
- 1828
- William Nichol invented the polarizing light microscope.

 Henry Goddard, one of Scotland Yard's original Bow Street Runners, first used bullet 1835 comparison to catch a murderer. His comparison was based on a visible flaw in the bullet which was traced back to a mold.
- 1836 James Marsh, an Scottish chemist, was the first to use toxicology (arsenic detection) in a jury
- Sir William Herschel, a British officer working for the Indian Civil service, began to use 1856 thumbprints on documents both as a substitute for written signatures for illiterates and to verify document signatures
- 1863 The German scientist Schönbein first discovered the ability of hemoglobin to oxidize hydrogen
- peroxide making it foam. This resulted in first presumptive test for blood.

 Henry Faulds, a Scottish physician working in Tokyo, published a paper in the journal Nature suggesting that fingerprints at the scene of a crime could identify the offender. In one of the first recorded uses of fingerprints to solve a crime, Faulds used fingerprints to eliminate an innocent 1880 suspect and indicate a perpetrator in a Tokyo burglary.

 Alphonse Bertillon, a French police employee, identified the first recidivist based on his
- 1883 invention of anthropometry.
- 1889 Alexandre Lacassagne, professorprofessor of forensic medicine at the University of Lyons, France, was the first to try to individualize bullets to a gun barrel. His comparisons at the time were based simply on the number of lands and grooves.
- Hans Gross, examining magistrate and professor of criminal law at the University of Graz, Austria, published Criminal Investigation, the first comprehensive description of uses of physical 1891 evidence in solving crime. Gross is also sometimes credited with coining the word criminalistics. (Sir) Francis Galton published Fingerprints, the first comprehensive book on the nature of
- 1892
- fingerprints and their use in solving crime.

 Juan Vucetich, an Argentinean police researcher, developed the fingerprint classification system 1892 that would come to be used in Latin America. After Vucetich implicated a mother in the murder of her own children using her bloody fingerprints, Argentina was the first country to replace anthropometry with fingerprints.
- 1894 Alfred Dreyfus of France was convicted of treason based on a mistaken handwriting identification by Bertillon.
- Sir Edward Richard Henry developed the print classification system that would come to be used
- in Europe and North America. He published Classification and Uses of Finger Prints. **Karl Landsteiner** first discovered human blood groups and was awarded the Nobel prize for his 1900 work in 1930. Max Richter adapted the technique to type stains. This is one of the first instances of performing validation experiments specifically to adapt a method for forens ic science. Landsteiner's continued work on the detection of blood, its species, and its type formed the basis of practically all subsequent work.