HISTORY

- Juan Vucetich 1st person to ever match a print to solve a crime; Francesca Rojas (left bloody print on door post after killing her children)
- Johann Meyer 1st person to state no 2 people have the same fingerprints
- Night stalker- caught by leaving fingerprint on rear view mirror of getaway car
- Will and William West, reason Bertillon measurements are no longer used TYPES OF FINGERPRINTS
- Arches- ridge lines start on one side and end on the other; 0 or 1 delta;
 smallest % of all prints. 2 types A. Plain, B. Tented
- Loops- most common; always exactly 1 delta; 2 types A. Left-leaning, B. Rightleaning
- Whorls- 2 or more deltas, but always at least 2; 4 types A. Plain, B. Central Pocket, C. Double Loop, D. Mixed
- -no one has identical fingerprints
- -fingerprints only grow larger, they don't change in any other way
- -Ridge Count is # of lines between Core and Delta
- fingerprints are formed during pregnancy

MINUTIA

 tiny details that individualize fingerprints; Know A. Bifurcation, B. Dot, C. Ending Ridge, D. Eye, E. Hook

TECHNOLOGY

- columnar thin film spray microscopic glass bristles to create a film impression of fingerprints
- Ninhydrin found in super glue, fumes make latent prints appear
- Know what AFIS stands for
- Retinal scans actually scan blood vessels on the back of the eye.
- processing- always take pictures in every step of the process.

GENERAL

- Primary ID #; A.All finger have #s, B.All fingers can be worth points; C.Whorls get points; D. Even points + I/Odd points + I
- Layers of skin; A. Epidermis outer; B. Dermis- middle layer, thickest; C. Basal innermost, ridges and valleys, determines fingerprints
- Porous substance- allows liquids to seep through; paper, cardboard
- Nonporous- doesn't not allow liquids to seep through; glass, plastic, tile
- A. Plastic prints- impressions left in an object; shoe prints in mud, fingerprint left in candle wax; B. Latent Prints invisible, need something like dust to make visible,
- C. Patent visible because of an external substance such as ink