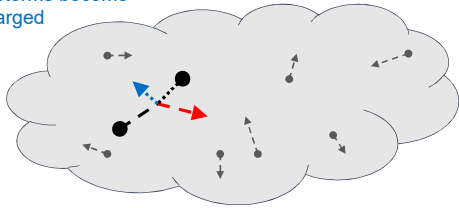


Electrostatic Applications

- Lightning
- Laser Printer
- Air Filters
- Cathode Ray Tube
- Faraday Cage
- Fueling

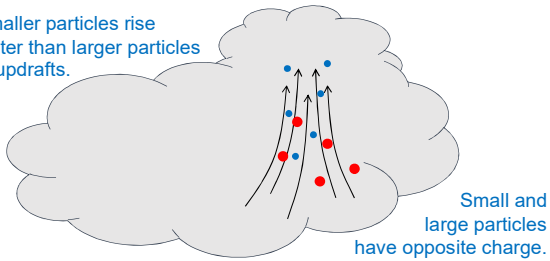
Lightning

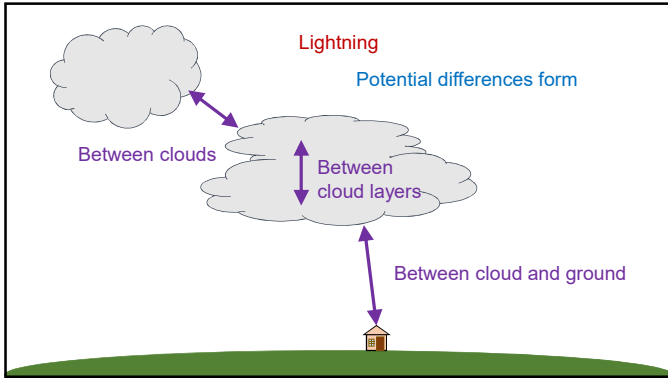
Frozen particles colliding in storms become charged

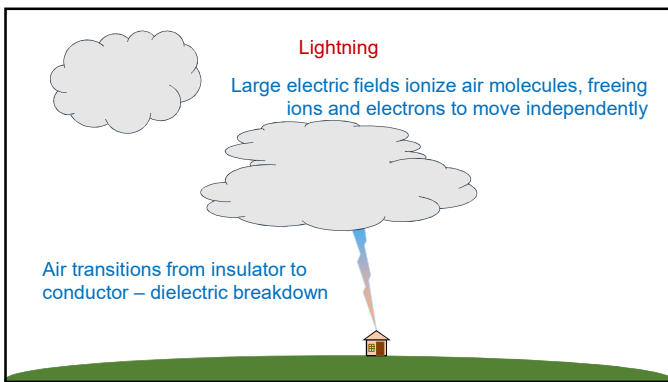


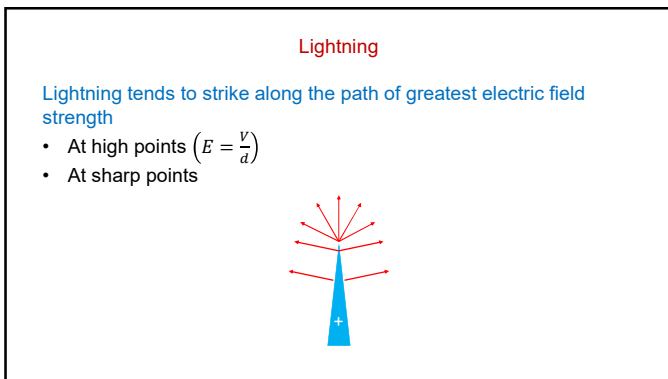
Lightning

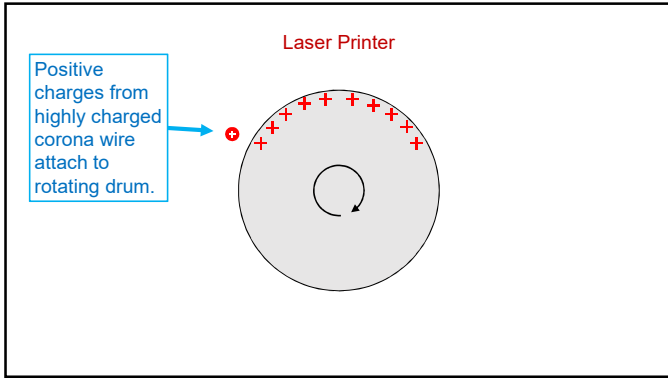
Smaller particles rise faster than larger particles in updrafts.

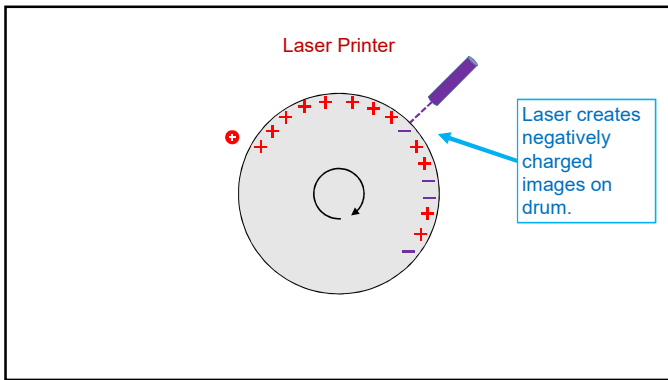


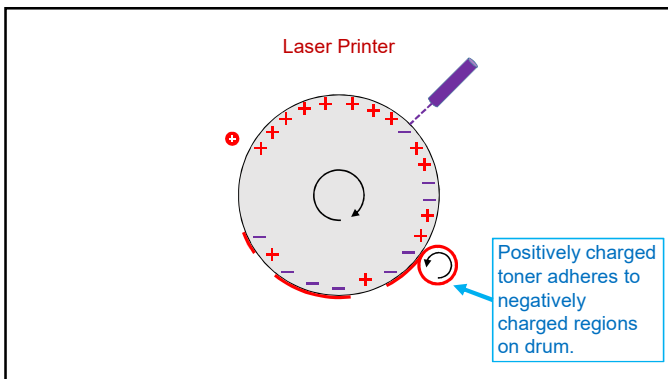


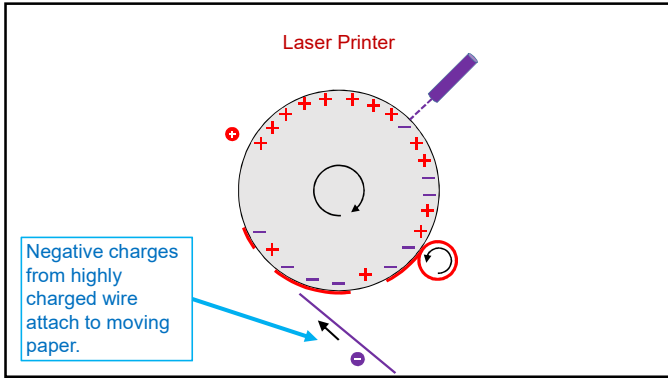


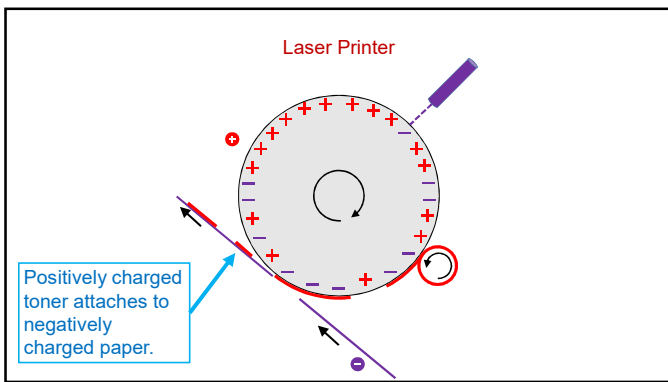


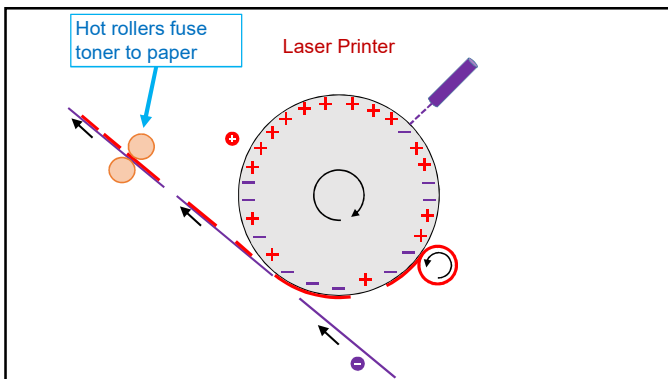






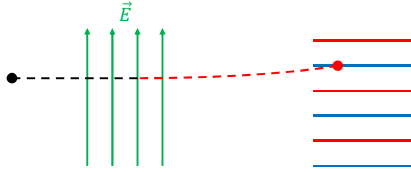




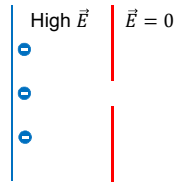


Electrostatic Air Filter

- Air passes through region with high electric field where dust particles get charged.
- Air passes through oppositely charged surface where dust particles adhere.

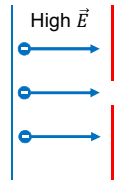


Cathode Ray Tubes and Other Particle Accelerators

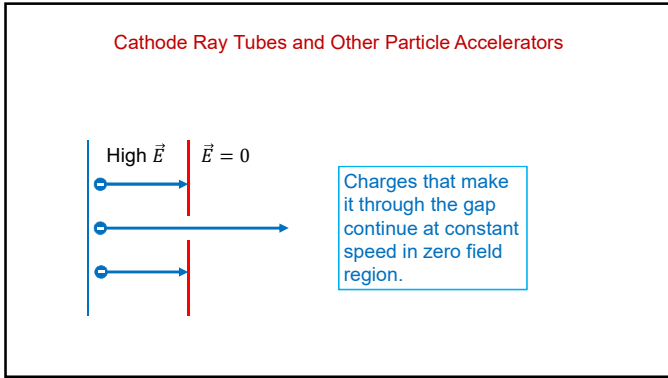


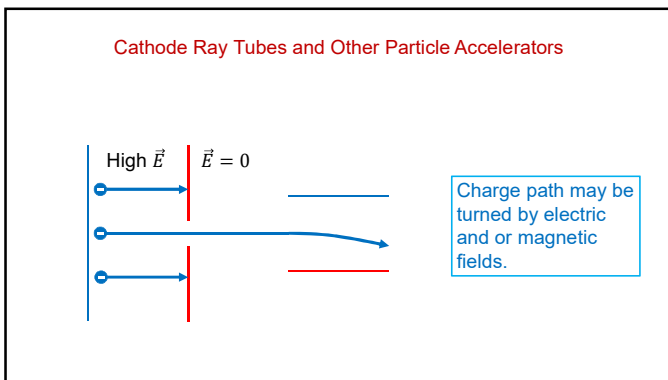
Large electric field releases charges from plate.

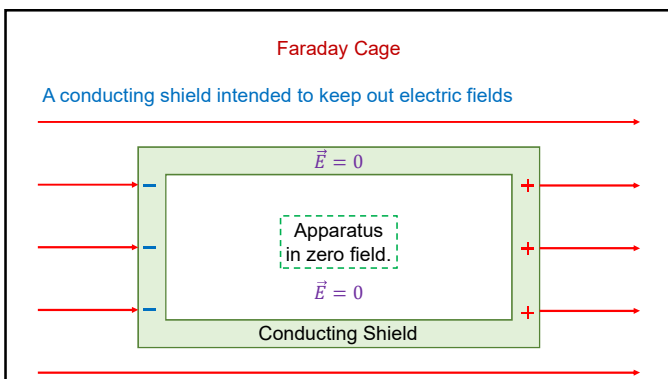
Cathode Ray Tubes and Other Particle Accelerators

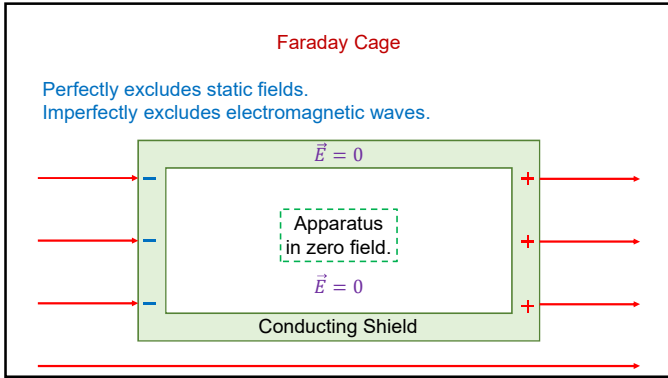


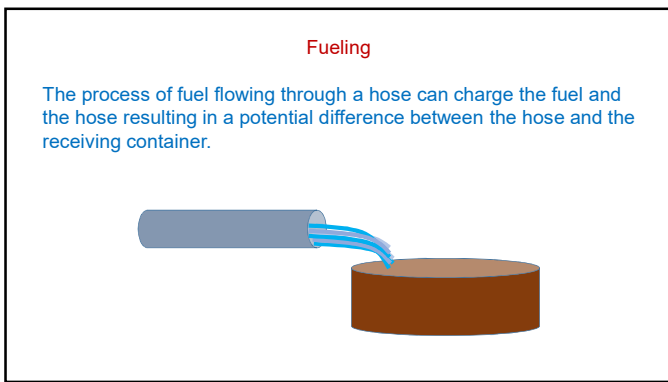
Large electric field accelerates charges across gap.

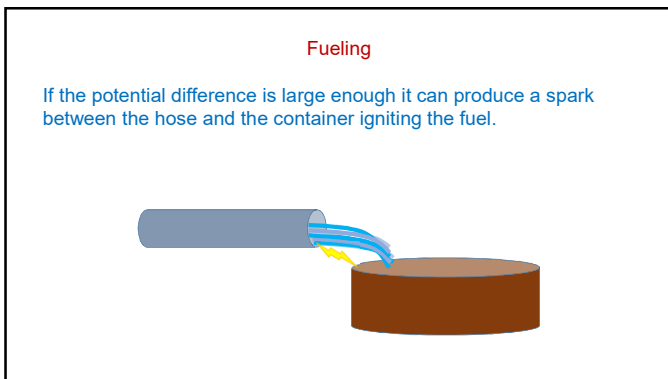






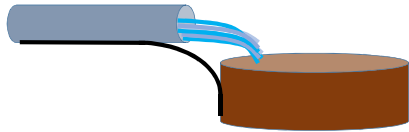






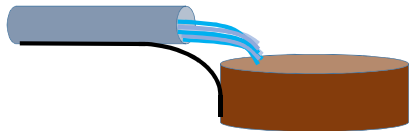
Fueling

A conducting connection between the hose and container will keep the two at the same potential.



Fueling

The hazard is generally low for small transfers of fuel.
Examples of significant hazards include filling or emptying tanker trucks and fueling airplanes.



Electrostatic Applications

- Lightning
- Laser Printer
- Air Filters
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- Faraday Cage
- Fueling

Additional Applications

- Plastic Cling Wrap
- Electroplating
