Nitrogen Dioxide & Sulfur Dioxide

What are they?
Sulfur dioxide (SO\textsubscript{2}) and nitrogen dioxide (NO\textsubscript{2}) are both parts of smog (which is usually not visible in South Carolina) and acid rain.

Sulfur dioxide comes from the burning of coal and oil. It is very smelly. The main sources of SO\textsubscript{2} are power plants.

Nitrogen dioxide comes from the burning of fossil fuels (like gasoline). The main sources of NO\textsubscript{2} are cars, trucks, and power plants.

What are the health effects of SO\textsubscript{2} and NO\textsubscript{2}?
- SO\textsubscript{2} and NO\textsubscript{2} both can cause lung disease.
- NO\textsubscript{2} can also increase your chances of getting viruses.
- SO\textsubscript{2} can cause eye irritation and burning of the skin.

How is acid rain formed?
Acid rain is formed high up in the atmosphere when SO\textsubscript{2} and NO\textsubscript{2} combine with water and sunlight. When this reaction forms acid it falls to the ground in the form of acid rain or snow.

What are the environmental effects of acid rain?
- Harmful to plant life
- Harmful to aquatic life
- Causes damage to forests
- Causes damage to vegetation
- Corrodes statues and monuments

How can you protect the environment from acid rain?
- Carpool, walk, or bike whenever possible to decrease emissions from automobile exhaust.
- Conserve electricity.
- Keep cars well tuned and maintained.

For more information, visit:
http://www.scdhec.gov/environment/baq/AirPollutants/effects.asp
http://www.epa.gov/air/sulfurdioxide/
http://www.epa.gov/air/nitrogenoxides/