

AIR POLLUTION STUDY GUIDE (Quiz 1)

QUIZ 1

Lecture 1:

- **Air pollutant:** contaminant present in the atmosphere at concentrations high enough to adversely affect human health, welfare and/or plant life. Natural and anthropogenic sources. Have sinks and sources.
- Spatial scales (depends on atmospheric lifetime):
 - o Outdoor: local, regional, global
 - o Indoor: home, work
- $N_2 = 78.1\%$ $O_2 = 20.9\%$ $Ar = .9\%$
- $Ppmv = (\text{moles compound}) / (10^6 \text{ moles air})$
- $Mg/m^3 = \text{ppm} \times \text{MW} \times (P/RT)$
- Ex 1) human health: London Killer Smog Dec 11, 1952
- Ex 2) human health: 4 day pollution episode Donora, PA = 20 deaths + 600 illnesses
- Ex 3) property damage: outdoor statue in Germany circa 1700
- Ex 4) crop damage: acid rain or singular emitter
- Anthropogenic air pollution depends on:
 - o Population
 - o Economic activity per person
 - o Pollutant emissions per unit economic activity
- **Global impact:** gases that spread around the globe (CO_2 , CFCs) w/ long lifetime; unreactive
- **Local impact:** gases/contaminants that react more quickly; short lifetime; (particulates)
- **Primary pollutants:** emitted directly into the atmosphere
- **Secondary pollutants:** formed by rxns in atmosphere; in gas phase or particulates (e.g. ozone)

Lecture 2:

- Ways to control ambient concentrations:
 - 1) Limit emissions
 - 2) Limit ambient concentrations
 - 3) Market/emissions trading
- **Clean Air Act:** 40 CFR - contains air pollution laws
- **NAAQS:** National Ambient Air Quality Standards
- **NSPS:** New Source Performance Standards - governs new stationary pollutant sources
- **NESHAP:** National Emissions Standards for Hazardous Pollutants or Air Toxics
- **PSD:** protect areas that are cleaner than NAAQS (visibility in parks)
- **Nonattainment areas:** explains what must be done in areas where NAAQS are not met
- **Mobile sources:** vehicle emissions controlled by federal gov
- **Criteria pollutants:** (6) originally regulated by "Air Quality Criteria" CO , Pb , NO_2 , O_3 , SO_2 , PM

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