

# 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
- $N_2 = 78.1\%$   $O_2 = 20.9\%$   $Ar = .9\%$
- $Ppmv = (\text{moles compound}) / (10^6 \text{ moles air})$
- $Mg/m^3 = ppm \times MW \times (P/RT)$
- Ex 1) human health: London Killer Smog Dec 11, 1952
- Ex 2) human health: 4 day pollution episode Denora, 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"  $CO$ ,  $Pb$ ,  $NO_2$ ,  $O_3$ ,  $SO_2$ ,  $PM$

# Air Pollution Study Guide Answers

**Bernard J. Nebel, Clark E.  
Adams, Richard T. Wright**



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