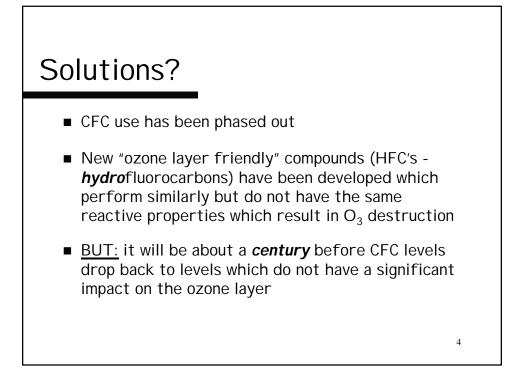




- As CFC levels have increased, O₃ levels have decreased (with the expected time delay)
- Effect is not disputed (scientifically)
 -resulted in a Nobel Prize for the scientists (Rowland and
 Mollina) who first proposed this
- Decreased O₃ levels allows more UV to reach the Earth's surface
 - -10% increase in UV causes about 10% increase in skin cancer (equiv. to living 200 km closer to the equator)

3



Is there a "Global Warming" and "Ozone Depletion" connection?

Commonly used *interchangeably* by the media, there *are* some connections:

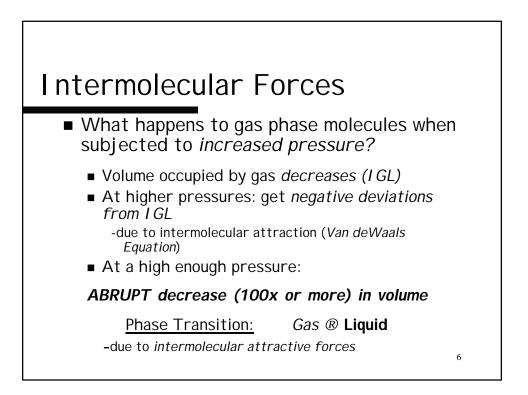
-CFC's *also* contribute to the "greenhouse effect" by effectively trapping I R

 $-CO_2$ accounts for a little more than half of global warming effects (CFC's contribute about 25%)

-increased UV levels inhibits plant growth

-could result in decreased CO₂ uptake by plants, increasing CO₂ levels

5





- All based on *electrostatic* attraction, but not strong enough to be considered a **chemical bond**
- <u>Recall:</u> Ionic Bonds
 -electrostatic attraction between two ions:

