#### General Chemistry II - Lecture 16



#### Secontamoous Procusous

Before embarking on a discussion of the Second Law of Thorntodynamics, we have to define two key concepts, the first of which is the idea of a spontaneous process. This is best done by example. Some spontaneous processes:

- Objects roll downhill (1970) (1971)
- Sugar dissolves in water
- Organic compounds burn in air to yield ourbon dioxide and water (-licliste licit.)
- Acids and bases neutralize each other in aqueous solution



We know from experience that some processes proced spontaneously in and direction and not in the opposite direction.

Thermodynamics is concerned with trying to explain why a process occurs spontaneously. Listed below are some spontaneous processes, along with the change in internal energy of the system associated with the process trecall that for most chemical processes, key with

Care by explained by exceeding of their

All of the above processes can be explained by energy considerations alone: they all result in a not documen in the incursal energy of the system. However, specianeous processes do not always decrease the internal energy of a system, e.g.,

Courses but respitationed by succept tops of earlings

It is evident from the above examples that energy considerations alone are not sufficient to explain why a process is apostoneous. We need to appeal to another thermodynamic property to understand spontaneity.

. . . .

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