

**Seeing to Understand.**

A decade of studying chemistry shaped my present views. As I learned way back then, I interpret the physical world processes at their molecular scale no human eye can see. They are strictly governed by the laws of thermodynamics, formulated by the science with people's financial support mostly in the 19th century. They became foundational to our modern civilisation, facilitating the energy generation and its use, propelling our civilization development to where we all are. Over the last 3 decades, I have observed a growing disregard of them, and therefore, the possibility of pivoting the uncontrollable human civilization's downfall.

Fundamental to these laws is the concept of entropy, which quantifies molecular disorder. It spans the absolute stillness and the "heat death." The biological life found, and expanded in it, the narrow margins of possibility. What they are and why they are as such has already been verified in the human knowledge base and confirmed by empirical evidence. It took biological evolution billions of years to master adaptation to them, and millions of once-living species, for me to be, see it and articulate it.

The composition of species in each ecosystem is defined by the narrow temperature range it can sustain itself. At the base of each one is the symbiotic plant life converting the sunlight energy into chemical bonds, a more orderly form of matter, reducing entropy. With any range of existing temperature change, species must evolve their relationships or migrate, and the outcome depends on the availability of space, adequate conditions, living soil and water. Their scarcity may pivot the cascading effect of conditions changing faster than most species' abilities to adapt.

Some may not understand all of this. If most of us can't, that inevitably will challenge the foundation of all Life on our planet.

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