

"The past always catches up with you."

The Merits of Seeing and Understanding.

A decade of studying chemistry shaped my present views. I interpret processes of the physical world at their molecular scale that can't be seen. They are strictly governed by the laws of thermodynamics, formulated by the science, and that became foundational to our modern civilisation, by facilitating the energy use and its generation. I noticed growing disregard of them, and I envision pivoting the uncontrollable human civilization's downfall.

The concept of entropy quantifies molecular disorder. It spans the absolute stillness and the "heat death." The biological life found, and expanded in it, narrows margins of possibility. What they are and why they are as such has already been recorded in the human knowledge base and confirmed by empirical evidence. It took biological evolution billions of years to master it, and millions of once-living species, for me to 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 its entropy. With any range of temperature change, species must evolve or migrate, and the outcome depends on the availability of space, 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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