

Transfer of Energy within the Environment and the Affects of such Interactions on the Development of Humanity

Phase 1: Inorganic Bodies- Shortly following the formation of the Earth, the environment consisted of only Inorganic Physical Bodies that emitted and received energy and did not readily replicate to produce bodies similar to the original form. Energy is defined as an object's ability to change, and as a result of this change, affect its environment.

Phase 2: Energy and Time - The primary dimension to indicate that change has occurred in an environment is Time. All other Phases that follow are a result of the interaction of the objects within the environment upon each other, and with time, transformation of these objects in reaction to this energy. Survival of objects in the environment is based on whether the amount of energy produced or received by the object in the environment occurs within a specific range of energy needed by the body to maintain its form. If the energy is beyond this range, it will cause the body to either grow or diminish.

Phase 3: Organic Bodies - Due to heterogeneous energy sources in heterogeneous areas of the environment, specific inorganic physical bodies are altered and become composed of elements which allow them to replicate. Those bodies that have within them coded sequence of information that is a template for the production of forms identical to itself are considered to be Organic Physical Bodies. This template is passed on to the progeny and can be changed in some species of organic bodies if prevailing environmental conditions are conducive.

Phase 4: Mutation – Random mutation in the code (genotype) can alter the physical attributes (phenotype) of the offspring of the parenting organic body(s) and their ability to survive (inter-generational mutation). One of these changes involves alterations in the surface of the organic body so that it can be more sensitive to the specific energies in the prevailing environment, and as a result, increase the probability that the Organic Physical Body can detect and acquire needed energy sources.

Phase 5: Sensory Surfaces - External energy interacting with the object is altered based on the properties of the surface of the object. With this, a representation of the environment is developed inside the organic body that differs from the energy signal of the input. These altered signals can be defined as the bodies' internal experiences and they are quantified by the limitations of these senses. This is the beginning of the nervous system. At this stage of development the nervous system consists of cellular units that are not in complete communication with each other. As such, there is no centralized energy collection system of internal experiences.

Phase 6: Integration – In order for organic bodies to rapidly adapt to variations in energy sources from multiple sources in the environment that can continuously affect its survival, fast reacting sensing and reactive systems that can integrate this information are developed. Nervous system evolves through this process, resulting in cellular units that are in communication with each other, creating an internally located, centralized energy collection system of external experiences. Causation is linear and consists of linking perceptions from the outside to levels of energy inside the body that have to be maintained in a specific range to allow for the survival of the organic form.

Phase 7: Quantity - The ability of the organism's centralized nervous system to control or quantify the rate (frequency) of energy entering it can be referred to as Subjective Time. Subjective Time is different from the generalized term of time as the former is unique to the organism and becomes a standard that is compared against, while the latter reflects the over all process of change, and consists of many different energy changes or rates of change occurring simultaneously.

Subjective Time is generated by a sub-threshold depolarizing event produced by a non-sensory area of the central nervous system and, as such, causation is non-linear to the environment to a limited extent. At this stage the organic form can be referred to as a subject (as apposed to an object) because it is able to differentiate itself in a quantifiable way from the environment. Based on this, consciousness (but not self-awareness) is a result of the subject experiencing multi-modal stimulation at the same rate, and therefore, leading to an additive experience of stimulation through co-occurrence.

Phase 8: Variance - As brought about by competition from co-existing Subjective Physical Bodies in the environment to obtain limited levels of energy in the environment, and the process of energy mutation (intra-generational), the neuronal substrate generating Subject Time reaches such a high energy state in its efforts to control a more extensive nervous system, that it begins to attract depolarized neuronal processes that are positioned in such a way that the electromagnetic energy produced by it causes the length of the neuronal processes to change, which results in an alteration in the physical pathway and time of arrival of the neuronal impulses within them. Due to the low intensity of the event, as a result of the small caliber of the neurites that are affected by this force, the amount of change is minute, however, the greater the internal processing of the input (Thought) the greater the variance to the original input.

Phase 9: Quality - By unconsciously varying the amount of energy that is being associated with quantified external events, the subject's Central Nervous System (CNS) produces an internalized environment unique to itself. By having different amounts of energy (quality) occurring for the same pattern (quantity), an incongruity (electrical patterns not in temporal phase) is produced between it and previously stored patterns in the CNS. Incongruity between present and stored patterns reduces the overall amount of energy stored in the CNS, where the more extensive the incongruity the more extensive the reduction. Self-awareness of this reduction is one of the defining aspects of the individual, as well as, how they individual endeavors to correct for the reduction.

Although Subjective Time is non-linear to the environment because a specific rate of change is preferred due to the neurophysiology of the central nervous system, people in general experience similar rates of change, because the depolarization rate is fundamentally the same due to shared structures, it does not result in them being unique to others in the environment. However, for the phenomenon of quality, the depolarization and subsequent incongruities varies greatly between people and, as a result, makes each person's variance unique to them. Therefore, this inherent ability to modulate the energy of the quantified signal (in the amplitude and frequency of the affected signal carrying neurons) or quality, allows the organism to become conscious of him or herself, or self-awareness. The energy output is qualitatively non-linear, and hence, different from the environment. As such, the subject is now an individual.

Phase 10: Thought - The interaction of quantity (Frequency Modulation) and quality (Amplitude Modulation) is Thought, a phenomena that can have different levels of non-linearity to external and internal energy states depending on the extent of the thought to differentiate itself from previous patterns. Therefore, it is possible to link perceptions from the outside the body to various levels of energy patterns inside the central nervous system so that there is a greater likelihood of maintaining the internal energies in a specific range to allow for greater probability of the survival of the organic form.

Phase 11: Uncertainty - Due to the inherent variance of Thought, self-awareness of such variance and the difficult of establishing determinate relationships in the formation of meaningful patterns will cause the individual to question the relationship of their internal environment with the external environment due to the apparent lack of a stable reference point. There will also be questions formed by the individual concerning uncertainty in the interaction of internal energies in the form of needs and how they react to the representations of them in the form of wants.

Phase 12: Certainty – To reduce the uncertainty brought into awareness by neuronal variance, as well as the residual accumulation thereof in the central nervous system, Biology, Philosophy, Psychology and the other sciences were created by humanity to define and manage the distress that such an phenomenon would produce in an individual.

The sciences of Biology, and then Neurology, look to the specific structures in the body that are shown to be linked to the senses, and then offers suggestions on how such sensations and the biological processes that they undergo within the nervous system may be responsible for the event known as Humanity.

Philosophy considers the phenomenon known as Being and Existence as experienced by Humanity. Being in this framework would be the individual experiencing dynamic changes in the quality of their immediate experiences due to the non-linear event at different energy levels modulating such experiences, whereas, Existence is the individual's awareness of the accumulated effect on the CNS's neuronal energy carrying capacity due to these experiences and underlying ability to face them.

Psychology considers phenomenon which are often termed ID, Ego and Superego. ID in this framework represents the internal energies that need to be maintained by the Organic Physical Body in a specific energy range in order for the person to survive, while Superego and Ego are balancing forces created within the mind to maintain this range in the face of the variance that allows for the perception of time, and the creation of the self. Given these definitions, Philosophy asks the general questions of considering the validity of external standards, while Psychology studies the creation and importance of internal standards.

The desired outcome of such studies is to determine feasible ways to increase the stimulation (Energy) in the central nervous system so that the underlying incongruities stored within the central nervous system of Humanity are reduced or ultimately removed (R.I. = 0), thereby allowing the initial levels of stimulation originally set in the CNS during the individual's early development (Primary Needs Baseline Activity (PNBA) Level) to be reached.