

A Unified Field Theory Necessary Addition to Unified Science

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Starting with the assumption that the universe, which is the territory man's sciences attempt to map, is an integrated holistic system, Mr. Haskell has developed certain basic holistically oriented concepts. These key concepts, some of which will be described below, do not, however, encompass the whole of man's experience. If then, parts of man's experience is excluded from unified science, the background theory is incomplete -- assuming, of course, the validity of the original premise of a holistic universe.

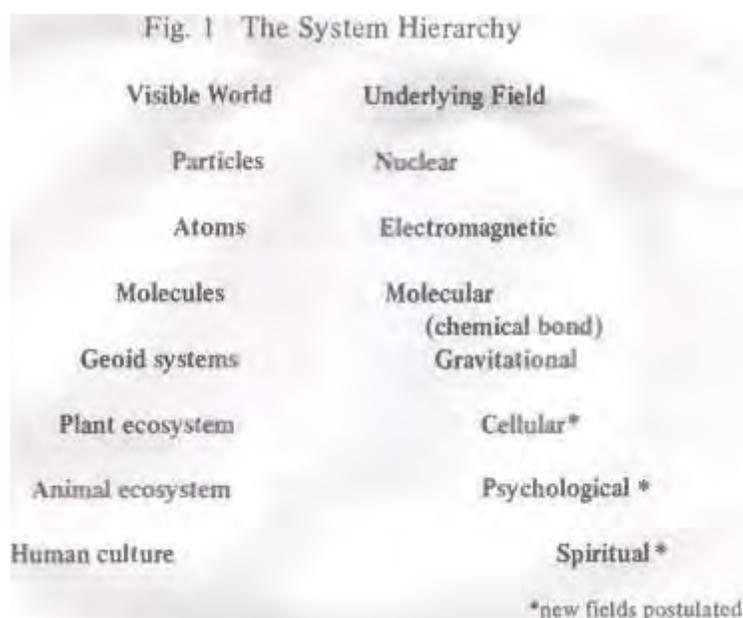
That part of man's experience missing from unified science is also missing from all the accepted one-field sciences. Although many people confirm the existence of this territory -- variously named parapsychology, Psi, psychic phenomena, higher consciousness -- there is no scientific theory which encompasses it. Since unified science aims to map all of man's experience onto a holistic reality, it is, therefore, reasonable to ask if the current concepts of unified science do suggest an extended map which can accommodate these currently unexplained phenomena.

The system-hierarchy (concept from unified science)

According to Mr. Haskell, the universe is composed of a hierarchy of systems in which "each Kingdom of the System-Hierarchy consists of all preceding members, plus an emerged property or relation, mutually modified."

The system-hierarchy is ordered by the degree of organization within the system. Thus, notice that human cultures are presented as being the most highly organized, whereas the elementary particles are presented as being the least well organized.

The four recognized fields



Notice the correspondence between the first three kingdoms in the system-hierarchy and the fields which science now recognizes (See Fig. 1).

A field is an abstraction of the physicist, which allows him to account for many otherwise unexplainable phenomena. One general type of phenomena explained by fields is action at a distance. For instance, how does the sun affect the earth's motion? What holds the earth in orbit around the sun? We say there is a gravitational field by which sun and earth are attracted to each other.

Yet no one can "see" this field. Is the field real? It is real because man observes phenomena which he cannot explain without postulating the existence of a field. Similarly for electromagnetic phenomena, man postulates a field to explain action at a distance -- attraction (or repulsion) between two magnets, for instance. With the electromagnetic field, however, man is also able to account for transmission of light from the sun to the earth, or of radio signals from a radio station to your radio.

The two primary fields -- gravitational and electromagnetic have been thoroughly described, not only empirically, but also theoretically (in complex mathematical terms).

They have not, however, been brought within a single theoretical framework; even though the great physicist, Albert Einstein, worked to develop such a theory until shortly before his death. This paper extends the qualitative aspect of Einstein's vision to include an entire hierarchy of fields.

As nuclear physicists have explored the structure of the nucleus, they have discovered two *new* force fields which are significant only at the level of elementary particles. These two fields, called "weak" and "strong," have been postulated, and are now accepted by physicists because they have discovered consistent types of interactions between particles that cannot be explained in terms of the electromagnetic and/or gravitational fields.

Three New Fields -- completion of the field hierarchy

Having discussed the currently accepted fields, we now consider certain of those previously mentioned metaphysical phenomena which suggest that other fields might exist. To set the stage a bit more thoroughly, however, notice that the four fields are first manifest at kingdoms below that of living systems. Recall also that most of the unexplained phenomena in man's experience occur in the living kingdoms.

The next kingdom beyond the geoid level is the plant kingdom. Is there any evidence for a new field becoming manifest for the first time in plants? The answer is yes. This evidence is contained in an article in the Feb. - March issue of *National Wildlife*. * For this author, the evidence that plants are sensitive to "emotional" conditions of nearby organisms seems irrefutable.

The investigator, Cleve Backster, claims that all cells -- plant or animal -- share this ability to respond to signals from other cells. Furthermore, he claims that the signals cannot be blocked by conventional electromagnetic-radiation-blocking devices.

If we accept this evidence at face value, we must then postulate either a new field or that the signal is transmitted via one of the other three gravitational, strong, or weak.

Both the strong and weak fields are limited to extremely short distances, so are not potential signal carriers. Likewise, the gravitational field is not a likely signal carrier, since theory predicts that very large masses (on the order of stars or galaxies) are needed to produce gravitational radiation.

Thus we must postulate a new field (assuming the validity of Backster's work). Since Backster has found it in all living cells, I propose to call it the "cellular" field, and suggest that it becomes manifest when the cellular level of organization is reached.

Given this perspective that new fields correspond to new kingdoms, I can then propose two more new fields. At the animal level, I tentatively propose to call the field "psychological," although other names could well be more appropriate.

For the human level field, I would propose the name "spiritual." For have not the ancient religions claimed that man's essence is spiritual? What would be the essence of this spiritual field? The property of self-awareness.

Many people have talked about a spiritual element in animals and plants: but none, I suspect, has had the benefit of both the system-hierarchy model and an understanding of the four fields now recognized by scientists.

In line with the system-hierarchy concept that each higher kingdom contains one new level plus the lower ones, mutually modified, we might expect that each higher field could influence the lower fields. The strongest demonstration of this is that gravitational waves interact with all forms of matter-energy, whereas electromagnetic waves interact with electric charges and currents.

We have no concrete evidence that higher level fields affect lower level fields. This remains to be scientifically verified. Folklore does contain reference to mysterious alteration of the normal course of events -- called miracles or magic. The validity of most of these references however must be questioned until further investigations prove or disprove them.

By accepting this proposed model, we can at least, start trying to incorporate the concept of higher fields into our understanding of living systems.

Stability of Systems -- related to the unified field theory

Certainly, the stability of atoms must be an example of a remarkably preferred organizational pattern. Yet, physicists have no difficulty explaining how an atom may have evolved from the basic particles. They say that the atom is an energetically stable configuration.

Thus, atoms form because the organized pattern of electrons, protons, and neutrons minimizes the energy level of the system containing those three components. The atom is a perfectly acceptable "teleological" system because its behavior can be explained energetically (at the electromagnetic level).

Similarly the organization of the solar system is acceptable to physicists. It can be explained in terms of minimized gravitational energy levels. Of course systems in which both electromagnetic and gravitational fields are significant display much more complex stable configurations. (Question for the future: what are examples of systems significantly influenced by both electromagnetic and gravitational fields?) Continuing up the hierarchy, one can imagine a prototypic cellular field becoming manifest in some primitive cell.

This cellular field, now detected by Backster, would be not only the medium of cellular communication, but also a third force field interacting with the other two in the evolutionary process.

Perhaps the plants, in advancing to their current degree of organization have merely been seeking an energetically stable configuration, whose characteristics continually change as the organism and its habitat mutually evolve.

One can continue this more detailed speculation at the animal and human level, but that remains to be developed. The basic idea would be that each higher level force field entails an added energy gradient which would influence the behavior of the organism.

*Thorn Bacon, "The Man Who Reads Nature's Secret Signals," National Wildlife, Feb -- March, 1968, pp. 4-8.