

EDITORIAL

CAM in Camera

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The *camera obscura* was a darkened room with a lens that projected an image of the outside scene onto a screen. Tiller and Dibble (pp. 000–000) project one aspect of the scientific basis underlying complementary and alternative medicine (CAM) onto the screen of the *Journal of Alternative and Complementary Medicine*. There are those who know the effectiveness of CAM and see no need for more demonstrations. There are those who want to know the “how” and the “why.” There are those who deny CAM any scientific basis.

In most of this paper, the authors deal with the formalities of the theory of the pH electrode, chemical thermodynamics, and gauge theory, all of which need to be formally presented in order to relate to existing science, to be laid open for criticism and attempts to falsify in the manner of Popper.

For the CAM practitioner, what is being said here is that the common laboratory pH-meter can be used to monitor the “quality” of “space” (*camera*) whether laboratory or CAM clinic and that these measurements can be generalized into thermodynamic parameters independent of a particular pH-meter. This “quality” may be able to show whether a “space” is a good healing environment. The authors also show that the presence of a semiconductor chip, “which has been programmed with a specific intention by humans acting from a deep meditative state,” can have a measurable effect in a “space” remote from the imprinting “space.” In effect, they are claiming that “human consciousness can significantly affect physical reality,” which carries the implication that an experimental outcome may not be independent of the experimenter! In laboratory folklore, some technicians are known to have “green-fingers.”

Tiller has approached CAM from his specialty in Materials Science. With a physics and electronics background, I became involved in CAM through working with electrically hypersensitive patients whose sensitivities were enhanced a million times the normal and who reacted within seconds. For these, it was frequency that mattered once some inten-

sity threshold had been exceeded. Through working out therapy techniques, I found how to imprint, copy, and erase frequencies in water, as well as how to perform arithmetic and logic-gate operations on these frequencies. The basic “bit” of information is a frequency with a theoretic resolution of the order of parts per million and a phase that may be stimulatory or depressive of biologic activity.

It eventually became apparent that there were two endogenous frequencies on each acupuncture meridian in the range milli-Hertz to Giga-Hertz, also present in target organ material. At the ANS–meridian interaction points described by Voll, there are additional frequencies characteristic of the sympathetic and parasympathetic systems, respectively. These meridian frequencies are quite precise; for 31 “Triple Warmer” (*Sanjiao*) frequencies from 22 patients, the mean was 6.0178 kHz (standard deviation) [SD] \pm 0.20% and for 53 Heart frequencies from 38 patients, the mean was 7.7877 Hz (SD \pm 0.92%). Meridians can become synchronized to environmental frequencies, chemicals, and homeopathic potencies. Chemicals with trace water acquire a characteristic frequency pattern related to hydrogen bonding patterns. Homeopathic potencies acquire a frequency pattern from the “Mother Tincture,” which is then modified by dilution and succussion. If the measured frequency pattern of a potency is imprinted into water and further potentized, that frequency pattern is followed with no chemical precursor and still no discontinuity at the dilution corresponding to Avogadro’s Number.

I relate this to Tiller’s work as follows. Water has a limited capacity for accepting frequency imprints; one frequency can be imprinted into a μ L at and below pH 7 but about 10 μ L is needed in alkaline solutions where there is less proton availability. Imprinting frequencies into a solution while measuring the pH gave a steady change of pH. Starting from pH 8.01, it reached pH 8.05 at saturation with 377 different frequencies imprinted. The pH reverted to the initial value when the imprints were erased. In principle, the equations given by Tiller could be used to determine the

change in the Gibbs thermodynamic free energy density for this experiment. There is also a mathematical relation between information and the thermodynamic quantity *entropy*. Although not specific enough to describe the information content of a homeopathic potency, pH measurements could give quality control to the “space” and placebos used in trials. I have seen a box containing *verum* and *placebo* in numbered vials where the *placebo* could have been potentized to the *verum* by proximity or by succussion when the box was shaken to randomize; no one would realize there was no *placebo* left.

Further to the “spaces” in Tiller’s effects, Garaiev in Moscow has found “ghost” DNA effects remaining in his special laser system after removal of irradiated DNA. Cardella has imprinted water by exposing it in the “space” of a resonant cavity. This water showed pH changes and also had acquired exothermic properties similar to the “extremely dilute” solutions measured by Elia using microcalorimetry and published in mainstream journals. I have been able to imprint ambient (moist) air contained in a plastic bag. Del Guidice has told me that the bag would provide the mathematically necessary “singularity.” A “space” needs to be circumscribed. Within a “space” in which there is coherence of its internal radiation, frequency becomes a *fractal* quantity having a pattern with no absolute scale of magnitude. It is this that couples the biologic, technologic, chemical, and biophoton aspects of living systems.^{1,2}

Further to Tiller’s IIED imprinting, water imprinted by a healer showed a continuum of therapeutic frequencies extending as far as I could measure. Potentized hydrogen peroxide gave a similar imprint, but potentized formaldehyde gave a continuum of stress. Healers have reported that their main activity comes through the Pericardium acupuncture point on the fingertip. By concentrating, I have been able to move the frequency of this point from the nominal value of 0.25 Hz almost to 7.8 Hz, the generally therapeutic frequency of the Heart meridian. It reverted on my ceasing to concentrate.

I have presented evidence that living systems must be regarded as macroscopic quantum systems.³ When a quantum system is described in mathematics, the equations are the equations of waves. If light is passed through two slits and superimposed, an interference pattern is produced. When the waves of two quantum systems are superimposed by bringing them together, they can subsequently interact irrespective of the distance we measure in our “real” space; they have become “entangled.” This is why Tiller has to introduce mathematical “spaces” to model the reality of a quantum system. A Reike healer and patient were 200 miles apart. Both imprinted their body frequencies into water at specific times. As healing was under way, entanglement moved their body frequencies toward common values. Tiller has not yet shown what is imprinted into an IIED by intention nor what is in a CAM “space.” It may be a frequency pattern, it may be entanglement with the healers, it may be something or nothing within our three-dimensional world.

REFERENCES

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