

“The Watering of Physics, Chemistry and Biology”

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Abstract

The Watering of Theoretical Physics developed through the work of Fröhlich on coherence in active biological systems and the work of Preparata and Del Giudice showing through QED that water had domains of coherence as a fundamental property in the ground energy state.

The Watering of Experimental Physics developed as frequency measurements forced the writer to the conclusion that coherence in water made frequency a fractal quantity thereby interlinking effects in the chemical, technical and biological frequency bands with the fractal ratio being the velocity of light to that of coherence diffusion. In water, frequencies can be written, erased, measured and form the basis of arithmetic operations and reversible logic gates. Water memory involves domains of a critical number of protons in coherent precession satisfying local NMR conditions independently of the frequency of precession. Erasure happens when the magnetic energy in a domain becomes less than thermal energy making a domain 53 μm in liquid water and 75 μm in water vapour. The fractional bandwidth ($\sim 10^{-7}$) is determined by statistical fluctuation of a domain size. Information as frequency is contained in the magnetic vector potential (**A**-field) component, the **B**-field has a formatting property. If memory in living systems, DNA and water is *quantum holographic* and *syntactic* with the information encoded in *phase* and operations modelled on computer ‘re-write’ systems with a ‘nil-potency’ rule then ‘nilpotency’ has a role in erasing unwanted frequencies in water.

The Watering of Chemistry is by an interaction of a molecule with vicinal water which gives a characteristic fractal pattern of frequencies. This interaction is in the far-infra-red rotational spectrum and involves lines coherent enough for a water-laser. Patterns of frequencies copied into water from mono-nucleotides can be taken by applied frequencies through the frequency patterns of DNA and RNA to that of the coded amino acid and by reverse transcription back to the original DNA pattern. Without this duality between frequency and the chemical bond, spectroscopic analysis would be impossible.

The Watering of Biology commenced for the writer with coherence effects of electromagnetic fields on enzymes and cells showing sensitivity to single quanta of magnetic flux. Later, involvement with electrically hypersensitive patients needed the use of frequency imprinted water for diagnosis and therapy. Acupuncture meridians have endogenous frequencies in two fractal bands from 0.5 milliHertz to 0.6 TeraHertz. Clinically, a dowsing technique is needed to cover this range and this involves phase comparison between the left- and right-side heart and pericardium meridians. Coherence will propagate by diffusion along a single wire whereon an alternating magnetic vector potential gives a measurable alternating electric field. This is routinely detected in electroacupuncture. The conclusion is that one must not underestimate the precision of frequencies in water and living systems and the effects of fractality.