

Spiritual 'Light' and quantum theory.

By T.J. Palmer 2012.

The passage below is taken from Chapter 10 of my thesis, on the relationship between Mesmer's 'animal magnetism' and quantum theory (Palmer, 2012, p.203).

The third concept [of quantum theory] is that of *coherence* and *wave resonance*. Fritz Albert Popp, a theoretical biophysicist from the University of Marburg in Germany, experimented with light in biological systems. He discovered that some chemical substances can cause cancer by absorbing UV light and changing its frequency. These carcinogens reacted to light only at the specific frequency of 380 nanometres.⁸⁰ It has been established from biological experiments that if you can blast a cell with UV light so that 99% of the cell is destroyed, including its DNA, you can almost entirely repair the damage in a single day just by illuminating it with the same wavelength of a very weak intensity. This process is known as *photo-repair* (Popp, 2000, p. 507). Popp was surprised to learn that photo-repair works at precisely 380 nanometres¹ wavelength. He concluded that a cancerous compound causes cancer by blocking the light and scrambling it, thereby inhibiting the photo-repair self-healing process.

Popp, and his research student Bernhard Ruth, built a machine called a *photomultiplier* that could measure light in biological systems by counting it photon by photon. They found that photons in living systems had more *coherence* than anything they had ever seen in non-living systems. In quantum physics, *quantum coherence* means that subatomic particles are able to *cooperate*. These subatomic waves or particles not only seem to be aware of each other, but are also interlinked by bands of common electromagnetic field, so that they can communicate synchronistically together (ibid, p.507). They are like a multitude of tuning forks that all begin to resonate together. As the waves get into phase, or synchronicity, they begin to act like one giant wave and one giant subatomic particle. Something that is done to one of them will affect all the others. This effect is known as *wave resonance*. Popp was witnessing the highest level of quantum order, or coherence, possible in a living system. Popp concluded that health was a state of perfect subatomic communication, and ill health was a state where this subatomic communication breaks down. We are ill when our waves are out of synchronicity. Popp also came to realise that light emissions from *wave resonance* had a purpose outside the body. Light was not simply being used to communicate inside the body, but between living things, and he began to postulate that this could be the mechanisms that attracted like to like, or how schools of fish and flocks of birds create perfect and instantaneous coordination. A corollary of this is that two healthy beings are engaged in photon exchange. For humans this means that if we could take in the photons of other living things, we might also be able to use the information from them to correct our own *Light* if it went wrong (McTaggart, 2008, p. 55).

References

McTaggart, L. (2008) *The Field*. New York, Harper Collins.

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¹ One nanometre is one billionth of a metre, and is used as a unit of measure in wavelengths at super-microscopic levels.

Popp, F. (2000). Mechanism of interaction between electromagnetic fields and living systems.
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