

## From Soap Bubbles to Cancer Research

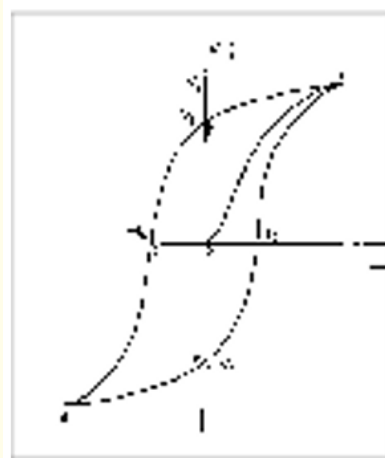
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It was recently found that not only are the crystals having memory, all amorphous materials, such as glasses and gels, all colloidal solutions [1], water [2] and even soap bubbles [1] have memory. All these materials have hysteresis properties and 'hysteresis properties' mean 'the material remember the history' (Figure 1). The volt-ampere characteristics (Figure 1) of these materials are different when the voltage is first increased and then decreased. This is because the voltage increase has changed the material and the memory of this change is still there when the voltage is decreased.



**Figure 1:** Hysteresis type volt-ampere characteristic.

The energy specters of these materials are like landscapes rugged with labyrinths with many local minima, each corresponding to a crystal-like specific ordered arrangement of the particles they consist of. These local specific arrangements speak of an out-of-equilibrium state, the description of which requires nonequilibrium thermodynamic or in other words nonlinear physics.

In the Jawaharlal Nehru Center for Advanced Scientific Research, Rajesh Ganapathy and coworkers studied soap bubbles with a size that allowed crystal order and the system behaved like a soft glass. Their bubble formation could memorize, but they could not find any structural difference between the substance with memory of pervious treatments and the one without memory of pervious treatments.

Also, specific frequency  $f_t$  were memorized, and such memorized frequencies were found even in a whipped cream. The author of this article offers an explanation of the observed phenomena of memorizing by amorphous materials, such as glasses and gels, colloidal solu-

tions, water, and even soap bubbles. The explanation is based on author's article published in 2019 [3]: "How Was the Material World Created? - Origin of Its Nonlinear Electromagnetic Field (NEMF)".

In her model of the Universe, everything material comes to this world as a material body and nonlinear electromagnetic field (NEMF). If so, each soap bubble, as well as each atom or molecule in an amorphous solid, gel, or colloidal solution has its own NEMF. The observed in all of them energy labyrinth with many local minima, at which the substance can memorize, corresponds to the characteristic resonance frequencies of the local NEMF of the substance.

Here is the point at which the cancer research steps in. Russian studies found that the onset of cancer is preceded by changes in the intracellular structure [4]. Formations, looking like 'stacked coins', were found in the intracellular space, which is mostly water and collagen. The observed fact that people, who developed high body temperature during fever seem to be immuned against cancer for 5 years [5], can easily be explained with melting of the 'stacked coins' preceding cancer [6] during the high fever.

The intracellular space is the place, where the cells communicate through their NEMF. In the last stage of cancer, called malignancy, the cells do not communicate, they are disconnected (probably by the 'stacked coins' formations). Cells are also disconnected during cut wounds. To assure fast healing of the cut, the cells evolve to tissue nonspecific cells that multiply fast and are free to cripple in the wound. In a cancerous tissue, the cells are also disconnected (they do not communicate), but since there is no current of regrowth to guide them, they multiply senselessly taking all the nutrients and starving the rest of the body to death [5].

What could cause the formation of the 'stacked coins' in the intracellular space where the NEMF rules? Everybody knows that distress (negative stress) causes cancer; only we don't know how. The cells communicate with each other through NEMF. How does distress influence the NEMF of the intracellular space? Probably, distress causes the formation of these 'stacked coins', which make the communications among the cell impossible.

The HeartMath Institute in California found that negative emotions (distress) make the blood more acidic (sour), which will make the pH of the body drop down. Studies of peptides [7] showed that while at pH = 7 the peptide melittin has a regular crystalline structure of helically folded chains, at pH = 3 the peptide looks like a jumbled mass. The changing of peptides' shape with the pH of the body is considered to be the basis of degenerative diseases such as Parkinson's and Alzheimer's [7], but they could also cause cancer - it depends on the genetic predisposition.

Research of Hans Selye showed that the same distress causes different diseases in different individuals [8] because what collapses at distress first is the genetically inherited weak organ, just as a material under stress cracks at the weakest place. Since different individuals have different genetically inherited weak organs, the same distress can cause Parkinson in one individual, Alzheimer in other, cancer in third. But one thing is for certain, cancer results from changes in the intracellular space, which is ruled by the intracellular NEMF.

Studies of the resonance frequencies of this modified-by-distress NEMF are the keys to early diagnose of cancer and the restoration of these frequencies to normal will be the cure for cancer. Russian scientists [4], [6] have found the frequencies specific for cancer with IR studies, which allows early diagnosis, and they claim they have the key for cancer cure but give no details on it. However, they cannot explain why IR spectra are the key to early diagnosis of cancer. We have the explanation - cancer is caused by frequency changes in the intracellular NEMF, which make the communication among the cells impossible. Cancer can be cured by restoration of the normal frequencies of the intracellular NEMF.

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