

SONATHERAPY[®], CYMATICS, AND PHONON CHAINS:

The Healing Potentials of Sound in the Body's Visceral Waters

For the Eleventh Annual Water Conference, Sofia, Bulgaria, October 6-9, 2016

Presented by Gary Robert Buchanan

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Sonotherapy[®]: History & Scientific Basis:

During 1975 we of Cosolargy[®] International began researching the effects of sunlight and sound within the human body and its enveloping higher fields, *i.e.* EM, higher-dimensional, the "chakras" or "color force centers," meridian system (Bong Han duct networks/acupoints). Research included the sciences of Cosolargy[®]¹, Synergetics², Cymatics³, Perception Studies, Archetypal Imagery, Musicology/Music Therapy/Pedagogy/Theory/Acoustics, and a host of related disciplines. By the 1990s a systematic approach had been developed for therapeutic applications, *holistic* and *non-invasive*, known as Sonotherapy[®]. Since that time this unique therapy has been made available at Steamboat Healing Center in Reno, Nevada⁴, a national historic geothermal facility⁵, as well as at other global clinics in the United States, Japan, Czech Republic, Austria, South Africa, and Australia.

The author has published two large tomes, **SONA: Healing with Wave Front BIOresonance** (2008) and **Sonotherapy[®]: Healing with Light, Color, Sound, Water & Subtle Energies** (2012), both now distributed on all continents to clinics established by practitioners certified and licensed by Cosolargy[®] International via a global Sonotherapy[®] Training Course. (See: www.sonatherapy.com).^{6,7}

The statements made herein are based upon over 40-plus years of clinical research and development and as documented in hundreds of case studies on file at Steamboat Healing Center.

Sonotherapy[®] applies 5- and 6-frequency sound arrays forming geodesic wave fronts directly within the body and its enveloping morphogenetic fields.

These Wave Front BIOresonance[™] formations consist of nuclear "optimal" or "signature" frequencies known to address specific biological functions and conditions. These "fundamental" frequencies are surrounded by four or more "coherently harmonic" tones. Placement of the tones above and/or below is determined by clinical "ratios" and infrasonic pulse rates researched and documented over the past century by physicians such as Sir Dr. Peter Guy Manners (England); Dr. Paul Nogier (France); Dr. Albert Abrams (U.S.); Dr. Royal Raymond Rife (U.S.); Dr. Olav Skille (Sweden); Harold Saxon Burr (U.S.); Dr. Alfred Tomatis (France); Dr. Winfried Otto Schumann (Germany); among numerous others.⁸

In addition, in Sonotherapy[®] light, water, and color applications are synchronized (pulsed with) the analog Sonations. **Acoustic foot baths, tubs, pools, and containers of water are further entrained with phonon arrays.**

Therapeutically, the "harmonically coherent" Sonations (both light and sound) directly applied affect the "frozen" fourth-phase visceral water layers in the body and cell walls, allowing for greater paracellular and/or transcellular transport and absorption, removal of accumulated toxins, the speeding of oxygenation and CO² exchange, along with transitional restructuring of the EZ water geometries of higher EMS^{9 10} and Synergetic potentials.¹¹

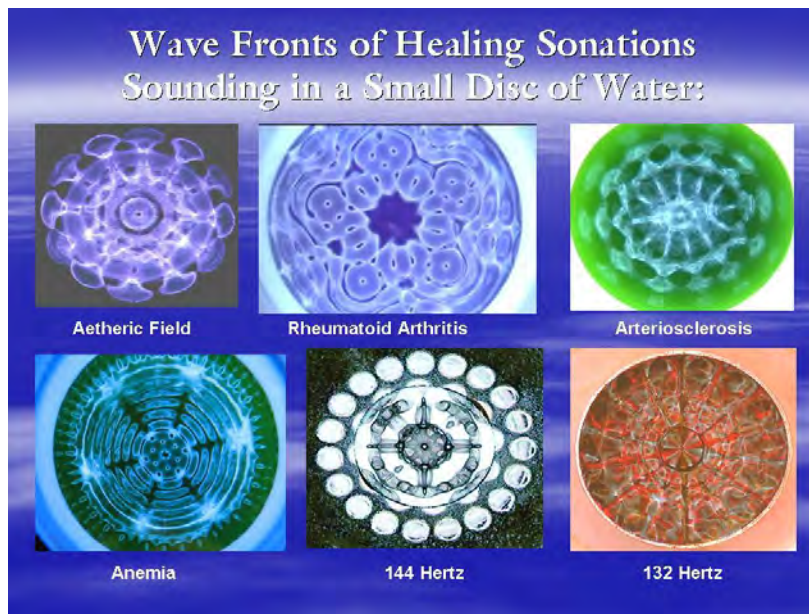
In addition, Sonotherapy[®] stimulates the lymphatic system and critical aqueous flows throughout the organism on the microscopic scale. Effects of the Sonations always include circulatory improvement; a lessening of inflammation, swelling and edema; elimination of deposits, such as calcium, minerals and heavy metals, dioxins, PCBs, uric acid, *et al*; along with rapid neurological calming and/or revivification. Amelioration of pain and restoration of function may be achieved.¹²

The scientific basis of Sonotherapy[®] is vibrational. **All life proceeds from and is dependent upon wave fronts of photons and phonons for existence.** As photon and phonon wave structuring is multi-dimensional (*a priori* "quantum"), on the physical level organization follows **Synergetic geometry**. "Information Factors" (IF) are supplied to the entity via frequencies and resonances of both sound and light working symbiotically, and in hydrotherapies. Biophotons in water follow Synergetic 60-degree vectorial growth phases. Similarly, in physics a gluon (*vector gauge boson*), which supplies all formative mnemonics, is defined as a combination of photons and phonons.¹³

Third-dimensional acoustical structuring may be observed via **Cymatics**. Sound resonated in a small dish of water produces evolving **Synergetic geometries**,¹⁴ which by way of analyses help define "classes" of frequencies, resonances, and sound combinations known to be optimal in the nurturing of biological processes. Images on the surface of the water, illuminated with strong light, especially in the Infrared wave range (electromagnetism), are formed within a heavier viscosity - similar to the 4th-phase water in the body responsible for most biological formation and functioning, as Dr. Pollack has shown.¹⁵



Carousel of several discs containing water, each with a different diameter and mounted over a small speaker. The water surfaces are illuminated with a light ring above, projecting different colors, and with a camera mounted above with 4X magnifying (*circular polarizing*) lenses to photograph and video record the Cymatic images produced for lab analyses.



Therefore, the *induction* of specially designed Cymatic wave fronts of sound into the body, by way of *vibrotactile and radiative applications*, and especially in water where sound travels 4.3 times faster than in air, allows sympathetic resonances to *entrain* the **body's visceral waters** with Synergetic wave fronts, ensuring that normative, optimal, rates of bioresonance are restored. **Sonations** applied via such applications encourage all parts to adapt or return to their healthiest states of functioning - the best kind of “self healing.”

Vital Life Energies:

According to modern physicists, like Claude Swanson¹⁶ among others, the greatest sources of Vital Life Energy, Chi, Prana, Ormus, Soma, Manna, *et alia*, are in order:

- (1) **Sunlight** (Light, Color, Information Factors)
- (2) **Sound** (Phonons, Primordial Pressure Waves, Torsion Fields)
- (3) **Air** (Containing all the above and AEther)
- (4) **Water** (Especially Structured, Living Water)
- (5) **Sacred Geometry**

A small dish of water, sitting on a speaker, illuminated with colored light, being resonated with sound, producing Cymatic geometries, is a combinatorial process embodying all of the above elements. That is, the Synergetic patterns (sacred geometry) produced are lifted within a 4th-phase or EZ water surface full of light/photons, air and phonon chains. Taken together, these combined forces define "subtle energy," *e.g.* they are "healing" energies.

VIDEO #1: "90 Hz in a Disc of Water" with archetypal cross formation, secondary eight spirals (clockwise and counter-clockwise spins), and tertiary deep water torsion fields seeking emergence.

(1) Water, Sonotherapy[®] & Homeopathic Principles:

There are myriad types of water designated by as many names, *e.g.* Juvenile, Mature, Mineral, Well, Rainwater, Surface Waters, Geothermal, Artesian, Tap Water, Boiled and/or Distilled Water, Morning Dew, Consecrated or "Holy" Waters, *et alia*. Various systems for "energizing" or "dynamizing" water have proven to be effective in bringing "dead" or "unhealthy" water back to life.¹⁷ In Sonotherapy[®] we focus primarily upon the restructuring of water molecules (clusters and inherent quantum fields), similar to the "potentizing" of waters in Homeopathy.

Homeopathy is based upon water-based remedies carrying specific quantum field "prints" indicative of original substances no longer materially detectable. Such "remedies" are made via a series of dilutions (usually 10-12 dilutions at 10%) and succussions, or percussive shakings. The newly designed Sonations used in Sonotherapy[®], in addition to containing higher field resonances, Synergetically as Cymatic growths geometrically restructure water so that it becomes sympathetically entrained with precise resonances, which via fractal dynamics fill the entirety in containment, *e.g.* either in a body of water, tub, vessel, or the fourth-phase visceral water content of the body in therapeutics. In fact, homeopathic solutions may be even further potentized with such five- and six-frequency "harmonically coherent" sound arrays¹⁸.

We posit that coherent polymeric nanostructures in the visceral waters of the body emit electromagnetic signals (EMS) as resonance phenomena in the low acoustical range, *e.g.* generally between 50 and 800 Hz. Such emissions constitute a vibratory field of low EM radiations, oscillations transferable over large distances, and within a natural process of biophoton and biophonon symbiosis in which negatively charged biophotons are transported by phonon chains in "harmonic coherency." The overall field patterning may be defined as a result of Synergetic function.¹⁹ The resonances supplied by specific Sonations in Sonotherapy[®] provide similar Wave Front BIOresonanceTM(s) and increase the production of biophotons on the molecular, nanostructural, and quantum potential levels.

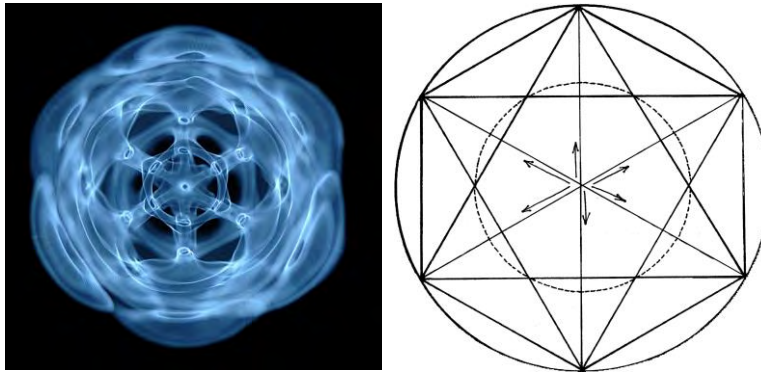
Mnemonic entrainment and introduction of Information Factors (IF) play a significant role in water memory and retention. Wave Front BIOresonance(s)TM and inherent Information Factors are transported through the water content and structures of the entire physical body and its fields at the nano, micro, and macro levels.²⁰ In vibroacoustic therapies this is defined as Whole Body Vibration, or WBV.

(2) The Aura (Biofield) as a Conveyor of Information Factors:

The enveloping fields of the entity (third- and higher-dimensional) regulate all biological (morphogenetic) and psychological interactions; they are intimately connected with - part of - the entire information delivery system within the complex, which is itself 70-80 per cent water-based. The DNA and RNA are encoded with Information Factors and resonate to specific frequencies and sound combinations, *i.e.* optimal "bioresonances." Similar systems within the body include hormone receptors, brain mitochondria, enzyme-substrate interactions, along with numerous other forms of molecular recognition.

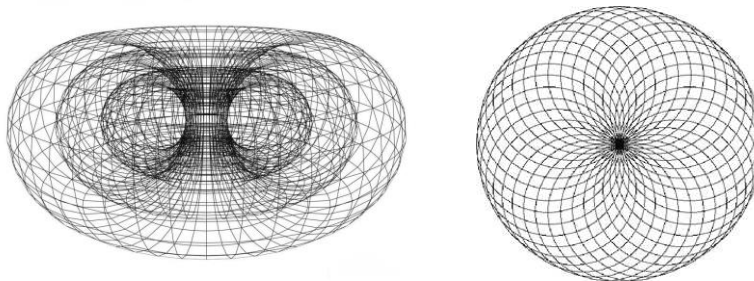
Oscillons (biophonons) Synergetically take shape and **Cymatic** patterning occurs at all cellular and subcellular levels, sympathetically resonating and entraining biosubstances. Similar engenderings emerge from negative feedback loops and coupled positive and negative feedback loops. Most bio-frequencies appear to be widely spaced in time, circadian, often stochastic, non-linear, $1/f$, Brownian, *etc.*; however, the underlying causation and consummate design of a bioresonance is always **pulse-based and geometrically/fractally field-oriented**.

While phase-synchrony of large numbers of cells in so-called "circadian cooperative systems" appears to be a result of "nonlinear coupling of oscillations" across the cellular and multicellular levels, such coupling between oscillators is Pulsatile and Synergetic. When a given oscillator fires, it pulls others up by fixed amounts, or brings them to the firing threshold, whichever is less. This is fundamental **sympathetic vibratory entrainment**; and the functional plateau is reached when all oscillators are firing simultaneously in equilibrium (achieve **Vector Equilibrium**). Neuronal networks, dependent upon electrically phase-coupled systems, follow the same cooperative patterning across large numbers of neurons.

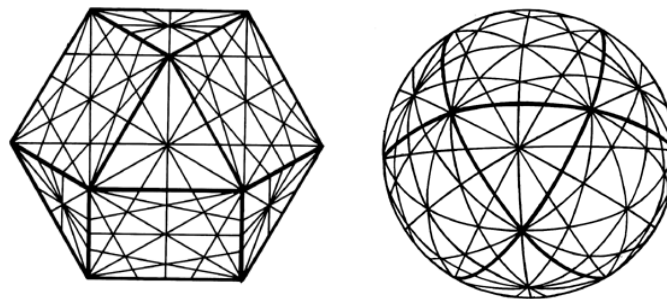


Typical sound-generated Cymatic form in water with nuclear 60-degree angulations indicative of spherical coordination as octahedral structuring.

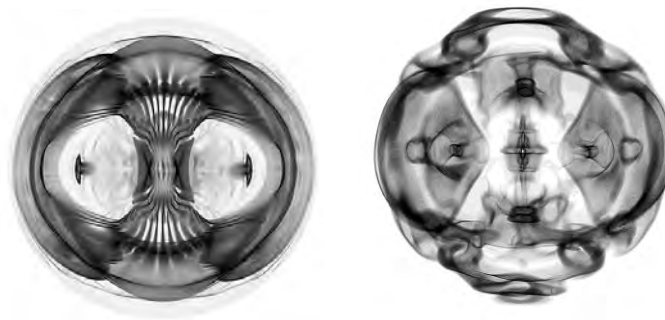
Observed Cymatic wave fronts of sound in water are circular and consist of a high-frequency constellation of event points, all of which maintain equidistance from the nuclear event point. All points in the surface are interconnected - most economically as an omnitriangulated spherical web matrix, a “tensegral” structuring. The closest packing (positioning) of spheres (wave fronts) organizes in all of nature as a **Vector Equilibrium** that is also the underlying “tensegral” form of the energetic “Torus” - the core recurring pattern, “donut shaped energy vortex,” that evolves life at every scale.



Torus structures in nature and in Cymatics.



Vector Equilibrium in Synergetic Geometry.



Toroidal Equilibria/Cymatic Wave Fronts in Water

Information Factors are generated at the locus of the oscillatory energy wave front propagated. The body is not a machine; rather, it encompasses myriad networks of internal and external interconnections across which information is carried to create, maintain, and modify functions, thereby establishing the overall integrity (functional tensegrity) of the life form. New networks and patterns capable of exchanging more Information Factors **fractally emerge** at higher levels of organization in life, evolving more advanced energy fields within higher orders of Consciousness.

Thus, the aura or biofield should be viewed as a multi-level/multi-dimensional phenomenon in which information flows among all parts of the entity. However, these are not mere “factors” of information in transport; rather, **they are conscious “conversations,”** as it were, taking place between and among the various levels of order.

Research over the past century confirms that a great many “conversations” are taking place. For example, Fritz-Albert Popp,²¹ a pioneer in biophotonic research, has described findings of biophotons and other extremely low-level transactions taking place on a continual basis as “electromagnetic bioinformation” lying below the thermal noise limit - inducing biological functions and effects. “Nonthermal” EMF resonance interactions are the norm, as reported by Luc Montagnier in regard to aqueous nanostructures and EMS communications.^{22 23}

Bell’s Theorem (John Stewart Bell, 1928 - 1990)²⁴ of quantum non-local causality demonstrates the instantaneous interaction of photon-phonon entanglement. Quantum physics tells us that all of reality is non-local, a causality defined as instantaneous interactions of light and sound, not subject to time and space, and is an ongoing processional exchange of Information Factors within Consciousness. The quantum “potential” conveys information everywhere at all times and is not subject to diminution.

This Consciousness, this IF potential, is only active when and where it is directed by Intent. Within the field of alternative healing “Intent” is a highly popular term used by practitioners. Among the majority of sound healers intent is believed to be the primary force at work; and, all improvements with conditions are generally attributed to “correct intention.” This principle was researched, discussed, and demonstrated time and again in frozen water crystals by our late colleague, Masaru Emoto.²⁵

(2-a) Water and the Mononuclear Phagocyte System (MPS):

Water is the one element which operates in the body capable of responding to the cosmic tides and fields. Within this paracrystalline network every cell - and not merely proprioceptive nerve cells, is

responsive to changes of our position in space. As mentioned, much research has been undertaken in regard to the molecular structure of water. As long ago as 1939 H.S. Frank²⁶ described water as a pseudo-crystalline structure resembling solids. In 1950 John Anthony Pople²⁷ posited that water is a self-perpetuating form with a continuous molecular organization so that, as Professor Pople put it, a glass of water is in some sense “composed of a single molecule.” Its structure is so finely balanced that its atoms respond to the slightest pressure and very low energy changes affect it. In the body water is therefore a sensor of extreme delicacy.

Biologically, "water balance" within the body is controlled by the diencephalon. The antidiuretic hormone is secreted in the posterior (neural) lobe of the pituitary gland (regulated by the pineal); but, the pituitary gland is also monitored by the hypothalamus which in turn reports to the thalamus. Importantly, in Sonotherapy® the 5- and 6-frequency Sonations we have developed (optimal resonances) address each of these areas, *i.e.* Forebrain (Diencephalon); ADH; Pineal and Pituitary Glands; Hypothalamus; and, Thalamus. among other parts of the brain.

(2-b) Biophotons in Water:

A major concern in vibrational healing (Sonotherapy®) is **Structured Water**. Whether we are speaking of viscosities, gases, vapors, moisture content, frozen states, or many others, we are referring to two major aspects, *e.g.* (1) the molecular structure of water, its essential geometry, its informational content, and (2) the *a priori* quantum potentials and related electrodynamics. Both aspects are characterized as "coherent domains," or in transitional states as "non-coherent" phases.²⁸

Newly structured water is said to be free of memory, contains negative ions, and is to great extent alkaline. Once entrained with memory Information Factors (IF) water can retain that patterning for long periods of time. The ability of water to retain memory has been attributed to its “mineral” content; however, the mnemonic potentials are determined more by geometric structuring and speed of phonon transmission. For example, mineral water (such as geothermal), having crystals, can enhance transmissions and help better establish the “field” of containment.

Synergetically, water forms its own crystals hundreds of microns thick as surface layers - as with tissues and cellular proteins. The more structured water becomes, the more potential it has for enhancing hydration and cell-to-cell communication. Sonated water is regenerative and life-supporting due to increased levels of biophotons present. Structured water admixed with other water is also capable of purification and dynamization due to its inherent field resonances. These processes are fractal – similar to the homeopathic practice of percussively “potentizing.” (Phonon chains actually do “percuss” molecules, *e.g.* via regular pulse-tone wave fronts.)

Structured water is energetic, Synergetic, and follows 60-degree angulations in molecular alignments (hexagonal forms), which may be considered interlocked Tetrahedra in primary position – indicating an overall Octahedral energy field, and potentially evolving to higher geometries, *i.e.* Dodecahedra, Icosahedra, and Vector Equilibria. Such may be observed in the formation of ice-crystals with 60-degree angulation. By contrast, if 90-degree angulation is present in ice crystals, there is no energy, no geodesic structuring, no life force.^{29 30 31}

Cymatic analyses in water undertaken at Steamboat Healing Center in Nevada have documented in videos the fact that the Phi, or “Golden Mean,” ratio incorporated into sonic arrays appear to significantly

increase biophotonic discharge in water. Several of the produced videos may be viewed on our You Tube "Sonotherapy" channel.³²

VIDEO #2: "Kakuichi Company Experimental Farm" in Japan where Sonotherapy® Sonations are being used to stimulate crop growth and create potential perma-cultures.

Summation:

(1) Sonotherapy® combines sound arrays and synchronously pulsed coherent light/color in therapeutic applications - via tactile applications, field applications, and in water-based applications.

(2) Synergetic "geodesic" and "harmonically coherent" wave fronts are induced into the body, its water content and enveloping fields by way of applicators containing low-wattage speakers (or sound transducers), filtered bulbs, LEDs, and laser instrumentation. Both sound units (with EM coils) and light units (with color filters) project low levels of electromagnetism, which are absorbed by the body and its fields, in addition to the infrared EM created by the acoustic friction among atoms and molecules also taking place.

(3) The "harmonic coherence" acoustical principle dictates that each of five or more frequencies (phonon chains) are whole number multiples of a common "fundamental" - generally infrasonic (0.1 to 9 .0 Hz). Both sound and light are more easily absorbed by the entity than are less-than-five frequencies and/or steady-state and non-coherent combinations. Such means that the Sonations of light and sound are wholly synchronized and capable of overcoming field barriers, tissue interface, and habituation response.

(4) All sound sources are Analog, *not Digital*, as the former have proved far more effective in therapies. As "geodesic" wave fronts the combinatorial arrays, accurate to within four decimal places, maintain position of placement, do not dissipate, and actually increase in amplitude as they are absorbed, thereby indicating "full entrainment" within the body.

(5) The Synergetic geometries are observed and analyzed as Cymatic formations in a small disc of water mounted on a speaker/transducer. "Classes" of Sonation types for given conditions and functions are compiled via this methodology.

(6) Sound (phonon chains) induced into water restructures the molecular clusters, *e.g.* within the visceral waters of the human body and in other external water systems. Water may be purified, energized-dynamized, and entrained with resonances and Cymatic geometries – entrainments not only retained for long periods of time but that also may fractally spread throughout large amounts of water in containment.

¹ See: www.cosolargy.org

² Fuller, Buckminster, *Synergetics*, N.Y., Macmillan, 1982

³ Jenny, Hans, *Cymatics: A Study of Wave Phenomena & Vibration*, MACROmedia Publishing, 2001

⁴ See: www.steamboatsprings.org/healing-therapies/sound/

⁵ Analyses of the geothermal waters at Steamboat Hot Springs find the following elements: Chlorine 0.50 mg/l; Sulphate 0.50 mg/l; Sodium 0.50 mg/l; Potassium 0.50 mg/l; Calcium 0.50 mg/l; Lithium 0.0050 mg/l; Manganese 0.050 mg/l; Silica 1.0 mg/l; Boron 1.0 mg/l; Arsenic .0050 mg/l; Fluoride 0.25 mg/l; Chloride 50 mg/l; and Sulfate 50 mg/l.

⁶ The two books are available at www.sonatherapy.com/shop/

⁷ Application for the Sonatherapy® Training Program: <http://sonatherapy.com/certification-training/> Acceptance into the program is based upon the applicant having read and reported upon the two publications given above, *SONA: Healing with Wave Front BIOresonance™* (2008) and *Sonatherapy®: Healing with Light, Color, Sound, Water & Subtle Energies* (2012)

⁸ Over the last century numerous researchers have documented acoustical and EM frequencies linked with biological functioning, i.e. Dr. Mitchell Gaynor (U.S.); Dr. John Beaulieu (U.S.); Chris Boyd-Brewer (U.S.); Jonathan Goldman (U.S.); Hulda Clark (U.S.); George Lakhovsky (Russia); Dr. Robert C. Beck (U.S.); Manners colleague Dr. Bruner (WW II in Germany); brain wave investigators and medical listings; frequencies of muscle tetanus - neurological pulsations, etc.; listings of biological electromagnetic signaling; Robert Beck; Hans Jenny; Nikola Tesla; the Chi Institute (U.S.); among myriad others.

⁹ The Electro-Magnetic Signaling (EMS) data in regard to the WFB Sonations is an area not yet fully explored. However, Sir Dr. Peter Guy Manners, inventor of the underlying sound therapy, i.e. Cymatic Therapy, did measure electromagnetic resonances in the body via a lexographic process. Such is documented in his paper, "Another Way Another Direction: *Techniques and Theories for the Emerging Pattern of Current Research*," The Bretforton Academy of Cymatic and Bio-Energetic Medicine/Bretforon Hall Trust, Evesham, Worcestershire, England, august, 1963.

¹⁰ The relationship of electromagnetism and sound is hypothetically discussed and explained by John Stuart Reid's (conference presenter) in his paper, "The Special Relationship Between Sound and Light, with Implications for Sound and Light Therapy," *Subtle Energies & Energy Medicine, Volume 17, No. 3*. <http://journals.sfu.ca/seemj/index.php/seemj/article/viewFile/47/37>.

¹¹ The Synergetic potentials are linked with paracrystalline, ice-like, three-dimensional geometries, which unquestionably affect lattice networks, thereby increasing EM flows and biophotonic transmission.

¹² Observations of Steamboat Healing Center colleague, physicist Dr. Stephan Fuelling. https://www.researchgate.net/profile/Stephan_Fuelling

¹³ Note the work of physicist Tony Fleming who posits the equation 1 gluon = 3 photons plus 3 phonons, at <http://www.cymahorse.com/pdfs/A%20predicted%20photon%20chemistry-hand%20out-name%20change.pdf>

¹⁴ Few researchers realize that Buckminster Fuller began experiments with Cymatics early on using balloons covered with oils and powders, then resonated with sound, in order to produce "geodesic" formations on the surfaces. This was the research that later inspired Hans Jenny to begin his own Cymatic research in Switzerland. (*Refer to endnotes 2 and 3 above.*)

¹⁵ See: Pollack, Gerald, *Cells, Gels and the Engines of Life*, Ebner and Sons Publishers, 2001

¹⁶ Swanson, Claude, *The Synchronized Universe: New Science of the Paranormal* and *Life Force, The Scientific Basis* at <https://www.amazon.com/Life-Force-Scientific-Basis-Synchronized/dp/B003MS8M30>

¹⁷ See Holst, Ulrich, *The Healing Power of Energized Water*, Inner Traditions, 2004. Purifying, energizing, and dynamizing systems explained: Viktor Schauberg-Wilhelm Martin "Activator;" Shoi Yamashita "Vital Water;" Enza Maria Ciccolo "Sacred Springs and Waters of Light;" Friedrich Hacheney "Levitated Water;" Johann Grandner "Magnetic Water;" Wilhelm Reich "Vital Energy;" Roland Plocher; Eckhard Weber "Bioenergy System;" Hans-Helmut Preisel "Alvito" System; David Wagner "Tachyonization;" Albeiez Tachyon Company; Gebhard Bader-Donner "Eliza Energy System;" and, Slim Spurling's "Harmonizer," among others.

¹⁸ Therapeutic light waves are "coherent" electro-magnetic, polarized chains of photons. Sound waves are considered non-coherent, non-electromagnetic transverse phonon chains. In order to make phonon chains "coherent," one must composite five frequencies

(Synergetics) all of which are multiples of a common acoustical fundamental. A "geodesic" wave front is created within which all tones are "harmonic" overtones (with common phases) of a base-pulse fundamental. (Refer to the formulae of R. Buckminster Fuller.) Further, synchronous wave fronts of light/color and sound may be accomplished by pulsing the light with coherent phonon chains. Such combinations are easily absorbed by the human body and its fields.

¹⁹ See Hecht, Lawrence, [New Evidence for a Non-Particle View of Life](#), 21st Century Science & Technology, Winter 2010, online. Also, L. Montagnier, J. Aissa, S. Ferris, J-L. Montagnier, C. Lavalee, "Electromagnetic Signals Are Produced by Aqueous Nanostructures Derived from Bacterial DNA Sequences," *Interdisciplinary Sciences: Computational Life Sciences*, (2009) Vol. 1, pp. 81-90.

²⁰ See conference presentation, "The memory and secrets of water," by Prof. Bernd Kroplin.

²¹ See the several works by Fritz Albert Popp, e.g. <http://www.transpersonal.de/mbischof/englisch/webbookeng.htm>

²² (See endnote 19 above.)

²³ See this conference discussion, "Biological and electrochemical sensors in measuring the informational side of matter," Kernbach, Serge; Germanov, Evgeny; and, Fedorenko, Anton, in which it is stated, "Called the imprinting effect, it has different names in Russia and China, sometimes it is denoted also as the 'transfer of information action' (TIA). The point is that several informational properties from the object donor can be transferred to the object recipient. The specific conditions should be met, for instance the object subject should be in an unstable (e.g. developmental) or in a phase transition state." Similarly, the transfer of Information Factors on the electromagnetic and/or quantum levels in "conscious conversations" may be conceived as transfers taking place in transitional, unstable, or - better- evolving Synergetic phase states.

²⁴ John Stewart Bell – See: https://en.wikipedia.org/wiki/John_Stewart_Bell

²⁵ See any number of Emoto's books, available online at <https://www.amazon.com/Masaru-Emoto/e/B001IODMIY>

²⁶ See Henry S. Frank, <http://scitation.aip.org/content/contributor/AU0716362>

²⁷ See John Anthony Pople, <http://scitation.aip.org/content/contributor/AU0716362>

²⁸ See conference presentation, "Shift from DNA molecule to water ensemble: can it explain the origin of life?" Igor Jerman.

²⁹ Refer to the work of our late colleague Masaru Emoto at: <http://fractalenlightenment.com/14121/spirituality/dr-masaru-emoto-on-human-consciousness-and-water> and <http://www.amazon.com/Hidden-Messages-Water-Masaru-Emoto/dp/0743289803>

³⁰ See also: Dr. Mu Shik Jhon: <http://www.waterpuzzle.com/>

³¹ See also the Hagalis method of water crystal analysis: <http://www.hagalis.com/Kristeng/ppframe.htm>

³² See online: <https://www.youtube.com/user/sonatherapy> Two frequencies sounding together in water will produce a Cymatic series of "base" geometries. If the frequencies are in "Phi" ratio, the same base geometries will be present, but as well more "light" reflections" and/or "photon discharge" will be observed. The Golden Mean multiple is the thirteenth partial of the acoustical Overtone Series, only sounding four octaves lower with the fundamental.