

# The BioDigital Movement

## PART II

By Prof. [Dr. of Med.] Charles McWilliams, ©2020

In the previous article I introduced the science of sonic frequencies as it entered the biodigital era, however, its beginnings occurred long ago in the field of natural medicine.

Around 1680, the English scientist, polymath, and recently called "England's Leonardo", Robert Hooke was able to see the nodal patterns associated with the modes of vibration of glass plates. Hooke ran a bow along the edge of a glass plate covered with flour, and saw the nodal patterns emerge that changed with pitch. Similar experiments of this kind, were also carried out earlier by Galileo Galilei.

The German musician and physicist Ernst Chladni noted in the 18th century that the modes of vibration of a membrane or a plate can be observed by sprinkling the vibrating surface with any fine dust (e.g., lycopodium powder, flour or fine sand). The powder moves due to the vibration and accumulates progressively in points of the surface corresponding to the sound vibration. The points form a pattern of lines, known as "nodal lines of the vibration mode". The normal modes of vibration, and the pattern of nodal lines associated with each of these, are completely determined, for a surface with homogeneous mechanical characteristics and from the geometric shape of the surface.

Chladni introduced the system in 1787 in his book *Entdeckungen über die Theorie des Klanges* (Discoveries on the theory of sound). This provided an important contribution to the understanding of acoustic phenomena and the functioning of musical instruments. The figures thus obtained (with the aid of a violin bow that rubbed perpendicularly along the edge of smooth plates covered with fine sand) are still designated by the name of "Chladni figures".

### **Cymatics**

Cymatics (from Ancient Greek: κύμα, romanized: kyma, lit. 'wave') is the study of modal vibrational phenomena, a term was coined by Hans Jenny (1904-1972), a Swiss follower of the philosophical school known as anthroposophy. Typically the surface of a plate, diaphragm, or membrane is vibrated, and regions of maximum and minimum displacement are made visible in a thin coating of particles, paste, or liquid. Different patterns emerge in the excitatory medium depending on the geometry of the plate and the driving frequency.

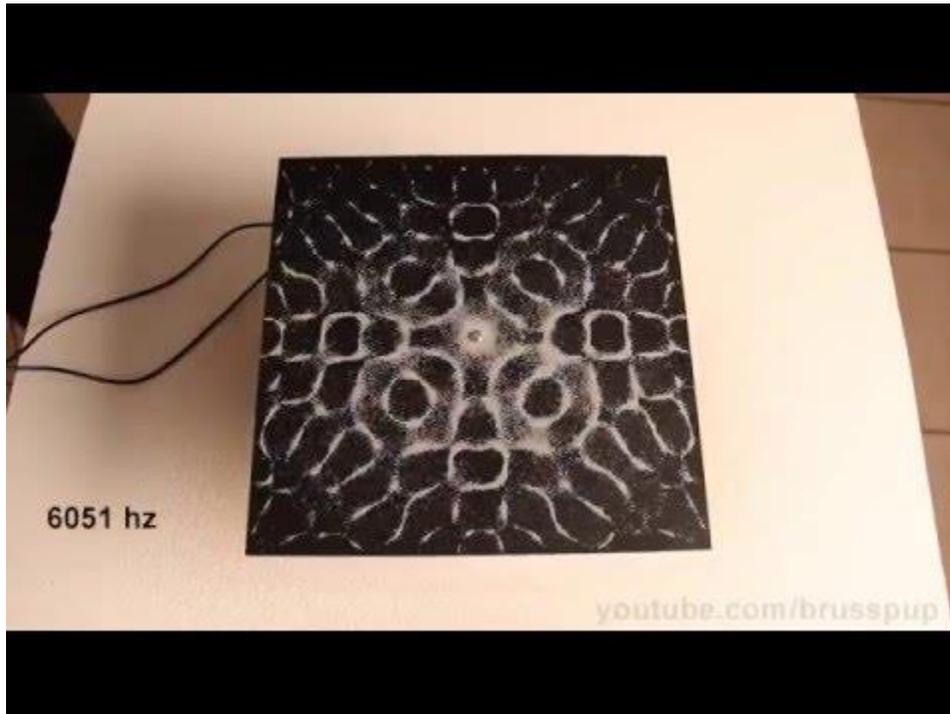
In 1967 Hans Jenny, a follower of the anthroposophical doctrine of Rudolf Steiner, published two volumes entitled *Kymatic* (1967 and 1972), in which, repeating Chladni's experiments, he claimed the existence of a subtle energy power which emerges when frequencies are vibrated on symmetrical images made by sound waves. Jenny put sand, dust and fluids on a metal plate connected to an electronic oscillator which could produce a broad spectrum of frequencies. The sand or other substances were organized into different structures characterized by geometric shapes typical of the frequency of the vibration emitted by the oscillator. Modern analysts, including Michael Shermer, have termed anthroposophy's application in areas such as engineering, medicine, biology, and biodynamic agriculture as pseudoscience.

According to Jenny, these structures, reminiscent of the Eastern Buddhist mandalas and other forms recurring in nature, would be a manifestation of an invisible, aetheric force field of the vibrational energy that generated it. He was particularly impressed by an observation that

imposing a vocalization in ancient Sanskrit of Om (regarded by Hindus and Buddhists as the sound of creation) the lycopodium powder formed a circle with a centre point, one of the ways in which Om had been represented historically. In fact, for a plate of circular shape, resting in the centre (or the border, or at least in a set of points with central symmetry), the nodal vibration modes all have central symmetry, so the observation of Jenny is entirely consistent with well known mathematical properties of science.

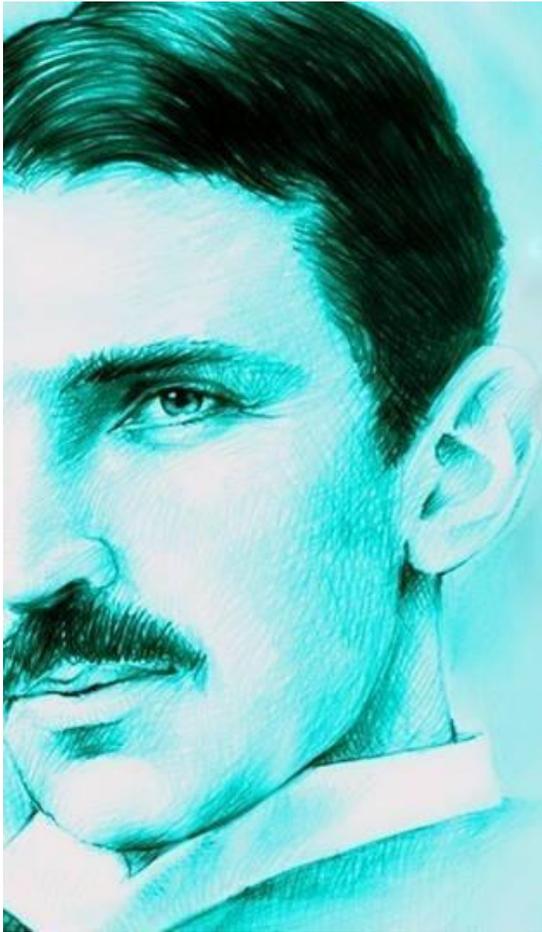
From the physical-mathematical standpoint, the form of the nodal patterns is predetermined by the shape of the body set in vibration or, in the case of acoustic waves in a gas, the shape of the cavity in which the gas is contained. The sound wave, therefore, does not influence at all the shape of the vibrating body or the shape of the nodal patterns. The only thing that changes due to the vibration is the arrangement of the sand, powder or liquid. The image formed in turn, is influenced by the frequency spectrum of the vibration only because each vibration mode is characterized by a specific frequency. Therefore, the spectrum of the signal that excites the vibration determines which patterns are actually nodally displayed.

The physical phenomena involved in the formation of Chladni figures are best explained by classical, mechanical physics, the same physics used by Nikola Tesla.



## Sound Healing

Since the human body is a liquid cavity, one can easily understand the complexity of acoustic signaling in normal existence and how health would assume stable, resonant waveforms. Cymatic therapy is based on the observation that human cells, organs, and tissues each have a natural resonant frequency which changes when perturbed by illness. Cymatic therapists apply different audible frequencies and combinations of sound waves to entrain malfunctioning components back to their healthy vibratory state and promote natural healing.



**“If you want to find the secrets of the universe, think in terms of energy, frequency and vibration...”**

Nikola Tesla

It has been proven by researchers that application of ultrasound cause wounds to heal faster. There are many select articles on the subject of low-amplitude high-frequency sound in bone fracture healing. Sound therapies of many varieties are becoming more widely accepted every day. Music therapy is commonly used for reducing stress, for pain management, and in delivery and operating rooms as well as to treat the elderly, the mentally challenged, and those with special learning needs and emotional issues.

In Germany, Sir Peter Guy Manning, M.D. has reported that researchers took the DNA of a 17-year-old boy, recorded its sound frequencies, and digitally saved them. The boy was accidentally killed, but the scientists still had his DNA frequency patterns. The DNA frequencies of the 17-year-old were transmitted into the body of a man in his late thirties. The man claimed he almost became the young boy again. His skin became youthful, he became slim, his hair went back to its natural color. Today he's in his forties and he still looks like a much younger man.

One of the most exciting possible applications of sound therapy is this potential to reverse the aging process by sound frequency therapy.

“When you're born,” Dr. Mannings said, “every cell multiplies. Then, at puberty, the frequency patterns of the cells change, and instead of multiplying, cell replaces cell. As we age, cells still replace each other, but the tempo slows down.

“Within a few years of time we will be able to prevent this slowing down of cell replacement. And this can all be done with sound. If we take a frequency sample of your DNA at age 18, and save it, then later, if we transmit this frequency to your cells, they will rejuvenate.”

### **The Future of Advanced Medicine**

Sir Peter Guy Manners is an M.D. and stated “It used to be, when doctors didn't know how to heal an arm or a leg, they just amputated it... By the year 2010, medicine as it's known today will be as out of date as chopping off limbs. Prepare to accept the wonders of technology as established, scientific fact. Miracles will become the natural thing.”

“Miracles,” concludes Dr. Manners, “were simply things people didn't understand. Today, we can explain miracles. Miracles fit right in with advanced technology.”

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