

FREQUENCIES AND VIBRATIONS

Over the past few years, we have seen a few abstracts each quarter pointing to the increasing importance of advances in the understanding of frequencies and vibrations on several fronts. These themes are repeated again this quarter, and though there are not numerous mentions, we felt it was time to point out this growing development.

Energy:

- Piezoelectric power generation can be fueled by vibrations harvested from the environment (180-0310) or body movements (199-0310).

Mind and Brain:

- Using advanced mathematics, measured attention spans are turned into a series of waves that increased in magnitude as their frequency decreased, suggesting that attention spans follow the same rhythms as Nile flood patterns, music and air turbulence (188-0310).
- Meditation (often accompanied by chanting at a certain frequency and vibration) can mediate the sensation of pain (361-0410).

Human/Machine Interface:

- Voice analysis done by computers is aided by the frequency with which a word appears as an indicator of its importance to the speaker (182-0310), as well as the frequency and vibration that are already used to identify voice patterns and emotions.
- Engineers are exploring the use of “stochastic resonance,” or a specific amount of noise, to clarify obscure images, with implications for better visioning in everything from fetuses in sonograms to the radar systems used by pilots when navigating through storms or turbulence. It has already been used in neuroscience and energy harvesting, two areas mentioned above (275-0410).

Environment:

- Environmental noise is increasingly affecting the behaviors of animal species (202-0310).

Implications:

The human only sees within a small portion of the light spectrum, and only that which operates at the same frequency it does. Thus, for all of human history, the wider universe of waves, frequencies and vibrations was virtually unexplored. Only in the past two centuries were radio waves understood to play such a profound role in the space around us, and even beyond. In the 21st century, expanded research into waves, frequencies and vibrations promises to open up many more frontiers in research, knowledge and application. It is entirely likely that energy, transportation (*teleportation?*), health care, military operations and environmental sciences will all undergo profound change as a result.



The chanting of monks and the sounds absorbed in the womb from the mother have long been known to affect the physical being, but imaging research is now confirming the effects on the brain and development. Questions about what is happening to bee populations around the world – populations vital to the food chain – often center around the effects of confusing signals in the environment, disorienting them. The sensors placed into robotic creatures that allow them to read vibrations and respond with vibrations of their own enable them to appear alive and emotional. Masaru Emoto's research into the crystalline structures formed by water when it is exposed to the frequencies and vibrations of various words, thoughts, sounds and images has captured global attention. Questions about other intelligences in the universe often revolve around the frequencies and vibrations with which they might travel, live and communicate.

Sensory enhancement for perception, aggression, maneuvering, learning and loving will all likely be explored in light of new findings relative to frequency and vibration.

What we think of now as advanced energy alternatives, such as wind, solar and geothermal, might pale in comparison to future breakthroughs in the areas of frequency and vibration, perhaps in combinations with these or along completely new paths. And when we envision Star Trek -- the tricorder, or the transporter platform, or the device that Bones used to diagnose and heal patients -- we can imagine that healthcare will also be profoundly affected. On a more mundane level, we may find that productivity in the workplace and marketing effectiveness might be improved by our knowledge of how frequency and vibration (whether in voices, the ambient environment, colors, or orchestrated surroundings) affect what we do, the choices we make, and how we feel.

