

BIOGEOMETRY AND THE FORMING PROCESS

Back to the Future of a New Architecture

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Objective: The use of BioGeometry in architecture introduces a language of shape that balances the energy fields of life in humans, animals and plants to produce a harmony felt as a spirituality of space. It also affects the long term quality building materials.

The validity of any science will be based on the solutions it provides to the major problems facing our modern civilization, otherwise it will only play a secondary role.

Humanity is facing the danger of global life extinction. Beside the environmental issues that we are aware of, it is the age of information that brings the greater danger caused by the saturation of the Earth atmosphere with electromagnetic waves that can cause a collapse of the immune system in all life species.

A new science based on *qualitative* scales has been developed by the author to measure and evaluate the effect of energy fields. The main instrument is the human energy field, on which the quality produced by other energy fields is detected and evaluated. This science has led to the discovery of similar sciences that existed throughout history and played the major role in ancient architecture.

Our architectural heritage is not found in forms, but in the *forming process*, of which we only see a small part. The main criteria in the forming process were based on energy quality. It played a very important role in location, modular axis, material, proportion and shape.

A new architecture should bring balance into life energy fields, which results in a restoration of the efficiency of the immune system, to save humanity from self-induced global life extinction.

BioGeometry has been patented, registered, and scientifically validated in human health, animal farming, and agriculture research at reputable scientific institutions.

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The Problems associated with Historical Styles

The functional use, construction methods, choice of materials, and symbolism of past historical periods are mostly not as valid today as they were in their time. New criteria and developments in every one of those fields make a new analysis of the process of creating forms necessary. This should not be based on finding modern solutions for the above criteria as the only basis of our present forming process. We should not only look for material, shapes, and styles; instead we should find the subtle energy criteria on which the forming process itself was based, not in the resulting forms. Only through the inclusion of the ancient energy criteria, which were based on the unchanging energy patterns of the earth that are still valid today, can we put the basis for a new forming process for the future.

The Subtle Energy Quality Criteria in the Forming Process

The following are some of the important criteria of the forming process in the architecture of ancient civilizations that are largely ignored by today's architects:

- Locating an energy 'Power Spot' or 'Sacred Site' for the building
- Analysis of surrounding shapes in the topography
- Locating areas of 'Geopathic Stress' (Earth Radiation) and avoiding them
- Detection and charting of 'Global energy Grids' of Hartmann or Curry types
- Using the Energy Grids as axis for a modular design system for the placement of walls and columns
- Using the 'Energy Quality of Numbers and Proportions' in the design to achieve resonance with the energy of the location
- Building alignment in relation to the compass directions
- Design alignments to planetary configurations
- Choice of proper day to start construction based on planetary configurations

Our architectural heritage is not found in forms, but in the *forming process*, of which we only see a small part. The main criteria in the forming process were based on energy quality of interaction between the building and the occupants. The human energy field is the measure of all things.

Objectives

The use of BioGeometry in architecture introduces a language of shape that balances the energy fields of life in humans, animals and plants to produce a harmony felt as a spirituality of space. It also affects the long term quality of building materials.

Biogeometry is the recreation of the energy quality found in sacred sites. This is the rebirth of an old concept in a new physics of quality. The ancient builders found several ways to recreate this energy quality in the building through the use of the quality of number and proportion. The building would thus enter into resonance with the energy of the sacred spot and amplify it.

In the planning of ancient cities this energy quality of the main sacred spots on which the temples, rulers' palace, and other important buildings were built, was channeled along the roads system to reach every part in the city. The energy quality of the sacred power spots is real, and like any other energy form it can be measured, channeled, amplified, stored, and used in a practical way in every activity of daily life.

Title Label Definition

The label '*BioGeometry*' is a word that we have put together in 1992 to best describe this new science developed by the author, who among other things headed a research unit in the National Research Centre in 1992-3 to study the effects of Geometrical shapes on energy fields of life. It is a design language of shape, motion, colour, and sound to bring balance into biological energy systems. It is a natural addition to such sciences as Bau-biologie (Building-biology) and Geobiology. It does not exist in the dictionary. It is a worldwide registered trademark, used in conjunction with our patents. We have therefore also put the word 'BioGeometrical' instead of 'BioGeometric' like the grammatical 'Geometric' used with conventional geometry, to emphasise its qualitative difference from conventional quantitative geometry.

The Architect is a sculpture of space

The architects' main goal is the achievement of harmony between all the components that make up the quality of space. He/she is a sculpture of space. There is a forming process involved to give the space the necessary qualities. A space that supports life must itself have the criteria of life. The goal of the forming process is to create living space.

All forms of life (animate and inanimate) including human being are 'Open Energy Systems' on all levels of energy. There are many levels of energy involved in a living energy system: Physical matter (solid, liquid, gas), vitality (gravity, electromagnetism, ionization, etc.), emotional, mental, and other more subtle levels. They are just different frequency ranges, and in this respect are also governed by the laws of harmonics, such as resonance, which produces information exchange. As with the lower physical levels that we are aware of, so it is with the more subtle levels that we are not fully aware of. On the physical level we take from the environment, use it in our system, then give it out again. There are three states of everything we interact with: The first state is when it is present in our environment, the second when it is inside our system and the third when it goes out again to the environment. These are three different states in any form of energy.

According to the laws of harmonics this concept of 'Open Energy System' should apply to all the energy levels in us as well as in the different planes of nature outside us. There are abstract collective types of energy in the space around us on the vitality, emotional, and mental levels. We use vital energy from the space around us to fuel our life processes, emotional energy as a fuel for feelings, and mental energy as a fuel to think. We are therefore constantly influenced by the quality of energy on all those levels in the space around us, and in turn influence the quality of space around us on all those levels.

Since the space around us has all those levels of abstract collective energy qualities, then it is actually alive in an abstract collective way. If it has emotional and mental energy then it has a personality, it is conscious, it exchanges information, it has memory, it is conscious, and so

on. What is abstract and collective to us is actually a hierarchy of individual levels of living personalities within the total personality of the Earth. The Earth is actually a living being. In architecture we are interacting with the personality levels of the space we are forming.

Unless we become aware, study and interact with all the patterns and qualities of all those subtle levels, we cannot apply the forming process to achieve the balanced quality in our interaction with it. Space is like an iceberg, we are only working with the visible part, while the invisible is many times as big. We interact with the invisible levels with artistic, psychological, and taste, concepts in a very subjective unscientific manner. That is the reason that we cannot really play a role in the solution of the major problems facing humanity.

We live inside the Earth and build within it: Integration and Harmony

The earth's atmosphere is actually an integral part of its energy system. The Body of the earth extends beyond the physical boundaries into the atmosphere. We actually live and build our buildings inside the body of the earth. A harmonious integration of whatever we build is important in order not to cause any disturbances in the earths' energy system and cause disturbances in the natural environment. Buildings should grow within the patterns of energy flow.

The subtle energy anatomy of the Earth

The study of the energy anatomy of the earth becomes the starting point of any form of building activity. In the 1930s several German scientists started detecting and mapping the patterns of the earths' energy. The first energy pattern was discovered by *Hartmann*. This was a flow of energy along a North-South and East-West grid in an almost square pattern of 2.00m x 2.20m in with a line width of about 20-22cm and a height of around 2.00m. The East-West side decreases towards the pole due to the curvature of the earth. On the subtle energy level the Earth seemed to be divided into almost square rooms with a wall thickness of around 20-22cm. This has become known as the *Hartmann Global grids*. Later on *Benker* found that these subtle energy walls also had a horizontal roof plate about 20cm thick forming the base of another level. It looked like a multi-story building of square rooms. It has since been named the *Benker Cube System*. Somehow it seems that this energy cube system was used as the 3-dimensional modular system for the earliest monuments of all civilizations. The system was also used for the alignment of buildings, horizontally and vertically. Another system called the *Curry Grid*, runs diagonally to the Hartman grids has 3.00m x 3.00m side dimensions. There is also evidence of it's' use in ancient monuments. In Many cases we find the walls placed along the gridlines and the columns on the grid crossings. In her book 'Points of Cosmic Energy' *Blanche Merz* who heads the Geobiology institute near Geneva in Switzerland, shows the extensive knowledge of the earth's energy in the location of their monuments on energy 'Power Spots' and use of the global energy grids as a modular system for the architecture of many ancient civilizations. Another book titled 'Atmosphärische Reize Streifen' (Atmospheric Energy Strips) by *Mettler*, a Swiss Architect and of president of the Radiesthesia association of Zurich, shows many examples of Greek temple layouts along the energy gridlines and also the planning of several cities of Roman origin according to the Earth energy grids. In our BioGeometry Energy systems Centre in Egypt we are currently doing similar studies on the monuments in Egypt.

Geopathic Stress: the von Pohl Experiment

At the crossing points of energy Gridlines an energy vortex is created. When a crossing of a Hartman grid coincides with one of a Curry grid, the energy effect of the vortex is greatly amplified. Underground water stream crossings produce even bigger vortices, and if these coincide with gridline crossings then a so-called 'Power Spot' is created. Power spots can produce vortices with in both directions of rotation giving different polarities. The resulting power spots can either be very harmful, producing a disruption of energy or very beneficent, producing energy balance.

The farmers in Europe knew that certain spots over underground water crossings had a strong 'Earth Radiation' that caused deformations in the growth of trees, and caused still-births and lack of milk in animals, which also showed. In ancient Egypt and Rome sheep or goats were put in a pasture in the location of the 'Power Spot', and then they were slaughtered and the liver and meet were examined for any malformations that indicated a harmful energy quality.

Around the turn of last century several researchers in Germany investigated the relationship between Earth radiation and cancer, which proved the existence of a direct link between Cancer and earth radiation. In 1930 *von Pohl* made a survey of all cancer cases in the town of Villisburg. He found that 80% of the cases were grouped into 10% of the area. Upon further investigation it was found that this area lay on a large number of underground water stream crossings, which produced a high level of earth radiation.

There is a growing awareness of Earth Radiation in Germany, Switzerland. Many architects employ bau-biologists and Geobiologists, trained in Radiesthesia to locate areas with harmful earth radiation, so that they can be avoided in the design. Areas of prolonged stay, like the bedroom, kitchen, or study should be placed away from such spots. The bed area is the most important place where earth radiation should be avoided. Most persons with an immune problem of some kind would have earth radiation somewhere in the bed. The location of the problem in the body usually corresponds to the spot in the bed where the earth radiation is detected.

With the introduction of BioGeometry as a design language in architecture we can completely change the quality of Earth radiation to reduce the harmful effect on the body. Earth radiation in a building can attract lots of insects and parasites. Cracks and mold are also found in such areas. Building materials tend to deteriorate rapidly in the presence of Earth radiation.

There are some towns in Poland that have road signs indicating areas of strong earth radiation. These should be avoided when building or camping. When roads pass over such areas we get a higher accident rate.

Power spots and sacred sites

The search for areas of Geopathic stress, became a main part of *Bau-biologie* in Europe. The effect of harmful earth radiation in Buildings and its' amplification and dispersion through the electromechanical, water supply, sewage systems, has been studied in depth, and many solutions have been developed. There is extensive literature on the subject in Germany and France. They can be obtained from the Bau-biologie association of Switzerland and

Germany, or at the Radiesthesie Gesellschaft St. Gallen, RGS, and also at the Maison de la Radiesthesie in Paris.

In *Geobiology* the same search led to the discovery that many 'Power Spots' were not harmful at all, but actually had energy balancing properties that promoted healing. Such spots always had remnants of ancient monuments, dating back in many cases to the caveman era. This led to the study of the energy qualities of sacred sites, which again confirmed the location of sacred sites and sacred monuments on this very special beneficent energy quality. Since then several books by authors like the Swiss Blanche Merz have studied the energy properties of sacred sites all over the world. She has written three books with studies of all the sacred sites of Germany, Austria, and Switzerland. They have also published a map of Switzerland which indicated all the sacred spots and categorizes them according to their energy power.

Location and Orientation as part of the forming process

Important buildings in antiquity were always placed on sacred power spots, and used the Hartmann and Curry grids to place the axis for the walls on them and columns on the grid crossings. The placement on the Hartmann grid led to the N-S orientation of the building and that of the Curry grid to a NE-SW orientation. The square and rectangular rooms have their origins in the orthogonal grid layout. Whenever a deflection of the grid occurs due to any earth anomalies, rivers, mountains, etc. we find the buildings following this light deflection.

The properties of the energy of sacred power spots

It is only through the location and design principles linked to the energy forming process that the balancing spiritual energy quality of sacred power spots can be accessed through resonance with the building through the energy design principles which were based on the special qualities of numbers and proportions and respected the energy patterns of the earth that these spots became Centers of 'Esoteric knowledge', 'holistic healing', and 'religious ritual', which were all linked to the resonance with this special energy quality that has been referred to as spiritual energy.

The Need for a New Science

There is a growing trend among scientific philosophers professing the need for a new type of science. Our present scientific way of thinking has produced a split in our worldview. We put science in one hand and the arts, humanities and religion in the other. We look at science as objective, based on quantitative methods of measurement that cannot include activities based on qualitative aspects; which are considered subjective and therefore unscientific. This point of view is based on the fact that today's traditional science does not deal with all levels of energy in nature. Only what can be quantitatively measured, categorized and labeled is considered scientific not recognizing that what cannot be measured is a limitation in our measurement. Nature, does not recognize our scientific units of measurement, they are our way of understanding nature by quantifying it. When nature recognizes quantity, it does so by interacting with the "qualitative aspect of quantity". In nature for example every number has a vibrational quality, so actually we find that quality and quantity are two faces of a coin.

Pythagoras was the first to introduce to the western world the Ancient Egyptian way of correlating musical qualities with quantifiable, numerical values. He used a simple

monochord, which is made of a musical chord strung on a piece of wood, and showed that every quality of sound played on the chord was based on a certain length of the string, showing that a simple monochord can actually convert quality into quantity and vice versa. The problem lies in the ability to measure, and measurement must be based on a scale. If we had measurement scales for quality then it would become objective, and even quantifiable, which would then become scientific. Do such qualitative scales exist? They actually do: We have musical scales, colour scales, and in a less obvious way, also scent and touch scales. To understand the properties of qualitative scales, we can look at the musical notes and their relationship to the quantitative frequency of sound or the length of the musical chord.

The fact that at certain intervals the chords interact, when one is struck, another starts vibrating, in what we call resonance, to produce their respective sounds, that are labeled as the same musical note, although at different places on the instrument, or levels in the scale, showing that they produce the same effect on the nerves going from the ear to the brain, and are therefore perceived as the same note. Any trained musician usually has acquired enough sensitivity to perceive the quality or musical note of any one of the sounds produced anywhere on the strings of the instrument even if they sound quite different. This repetitive or cyclic effect is the reason that we speak of octaves on the piano because the first, eighth, sixteenth notes and so on, produce the same qualitative effect on us. Now if all the sense scales apply to the same kind of nervous reactions to the external stimuli, then they refer to the same qualities and are therefore interchangeable. The laws applying to each type of scale, are of two types, specific to that scale or general. It is the latter type that interests us, because while we apply them to their own ranges, they can be also applied to all sense scales. If we could import some of the qualitative laws of each sense scale into the other sense scales, and sort of build a set of “universal laws of quality”, we would immediately open new dimensions and see new possibilities in each of the scales. As an example we could apply the laws of resonance, as found in sound, to colours, and would understand that similar colours can enter into resonance thus amplifying their energy effect as in music. We will find that similar movements, shapes, feelings, thoughts etc. could also enter into resonance and sort of amplify each other changing each others vibrational levels and also exchanging other types of information, carried by the object besides the common colour, shape, movement etc. Most of the laws of colour composition, like harmony, opposition, complementarily, luminosity, etc. can be applied to sound, shape, or movement.

The author has found through experimentation in qualitative physics that the famous ‘Golden Proportion’ of 1:1.618 that Pythagoras brought to Greece from his 22 years of study in the temples of Ancient Egypt was actually derived from the energy quality of the quantity of 16. It can be demonstrated that any 16 similar objects recreate the energy quality of sacred power spots. It was transformed into a proportion to make the building enter into resonance with the energy of the sacred spot causing a harmonic amplification. Such experiments shed a new light on important aspects of the forming process of ancient architects.

Microvibrational Physics, “Physical Radiesthesia” vs. Mental Radeistesia.

If we take any of those scales, like the colour scale that I will use from now on, because of my greater familiarity with it through my training as an architect, and also because it is was used in the calibration of the pendular instruments of “Microvibrational Physics” or “Physical method of Radiesthesia” in the work of the French scientists *Chaumery* and *Bellizal*, the pioneers of the physics of detection of qualitative effects on the human energy system, in the 1940-1950s. Other great works were done at the time by *Turrenne*, using polarity scales, and

Voillaume using pendular length scales. Later on, in Germany the theories of Lecher in Radio wave antennas were used by *Schneider* to develop the Lecher antenna, used for the detection of the wavelengths that our body energy fields are interacting with. The Lecher antenna is now the main instrument used for the qualitative detection of energy interaction among European practitioners of the science of physical Radiesthesia to be distinguished from the widely popularized form of mental Radiesthesia; where pendulums are used as a tool to interact with subconscious levels through a code that gives meaning to the movement of the pendulum in a form of autohypnosis. This is a very valuable method for mapping the levels and possibilities of the subconscious, but it is unfortunately very subjective and prone to autosuggestion. It has been widely used in the west, and due to its subjective nature, has acquired an unserious reputation when applied to objective criteria. The popularity of this method of Radiesthesia has made it necessary to separate it from the scientific approach, which uses the scales of measurement on a level of perception that precedes the subjective meaning level as we will explain.

Chaumery and Bellizal named their science Microvibrational physics to differentiate from the term Radiesthesia used in Europe, which is the equivalent of the term Dowsing used in England and the United States to refer to this psychic ability. Others applied the term “Physical Radiesthesia” or the physical method of Radiesthesia to the scientific form, and “Mental Radiesthesia” to the second psychic form of using pendulums and other instruments to enter into a dialogue with the subconscious.

Egyptian Physical Radiesthesia is a new science of energy quality relationships, based on *qualitative* scales. It has been developed by the author to measure and evaluate the effect of energy fields. The main instrument is the human energy field, on which the quality produced by other energy fields is detected and evaluated. Man with his total energy constitution is here truly the qualitative measure of all things. Unlike conventional quantitative measurement the user is here part of the measurement. This science has led to the discovery of similar sciences that existed throughout history and played the major role in ancient architecture.

It was in this period of 1930-1950 in France and Germany that this science was reborn in a modern scientific form. Researchers like *Chaumery, Belizal, Turenne, Voillaume, Mermet, Enel, and Lachovsky* were among the pioneers in France, with *Baehr, Hartmann, Wittmann,* and others in Germany. The science of Physical Radiesthesia (sensitivity to Radiation) or ‘Microvibrational Physics’ as it was called by Leon de Chaumery and Antoine de Belizal. They developed many aspects of their science, especially the ‘Energy of Shape’, through research of the geometrical shapes used in Ancient Egypt. The count Leon de Chaumery died as a victim of his experiments in the energy of shapes from Ancient Egypt. This French scientific school combined with the work of *Pythagoras, Kepler, von Thymus, Chaldni,* and *Keyser* in Harmonics, and the work of *Hans Jenny* in *Cymatics*, were the main building blocks on which Egyptian Radiesthesia and ultimately BioGeometry were based.

Validity as Part of a Solution to Global life Extinction

The validity of any science will be based on the solutions it provides to the major problems facing our modern civilization, otherwise it will only play a secondary role. Humanity is facing the danger of global life extinction.

Just two decades ago the danger of a third world atomic war that would end our civilization, was very eminent. Now that we seem to have this first danger under control we are facing

another one, which is a result of our carelessness towards our natural environment, endangering plant and animal life.

In reality however the real danger of global life extinction lies just around the corner: The age of information carries with it the global extinction of our civilization.

While we are striving to reduce the pollution of the environment, we are continuously increasing the amount of carrier waves needed for the wireless technology of modern communication. New television channels, cellular networks, surveillance equipment, and others are put in the Earth's atmosphere every day. These electromagnetic waves are thousands of times stronger than the level used in the communication in our body cells. It is like trying to move a breeze through a storm. Our immune systems are continuously trying to correct the distortion in the transfer of inner information in our body. Very soon the threshold will be reached when a total collapse of our body defenses will take place.

Looking at it scientifically, the electromagnetic waves have a component moving in a vertical plane and another moving horizontally. The planes sometimes also rotate, but they keep the orthogonal relationship of being at 90 degrees to each other. Some authors use the word 'electric' for the vertical motion and 'magnetic' for the horizontal, as they are not necessary in those positions. The waves in human and human-friendly plants and other components of nature have only horizontally moving waves. Any vertical component in the body is a sign of disease. All electromagnetic waves whether wireless or around electrical devices, have the vertical component, just as the cancer triggering harmful Earth radiation. The problem is not the saturation of the Earth atmosphere through quantity, but also a detrimental quality.

There will come a day in the near future when a very advanced modern medicine will stand completely helpless facing this new danger. Since we cannot go back on the advances of modern technology, that are giving us an ever-increasing comfort and efficiency in life, we have to find a solution. The solution lies in the invisible part of our body, our energy body, which is our second skin. It is the disturbance on that level due to energy into action with the energy environment that brings imbalance of the energy functions of our body organs. It is in the empowering of that energy body that a solution can be found. If we picture it as a glass of water that is not full to the top, just a drop of dirty water will completely spoil it. If however we manage to increase the pressure inside the water and give it a continuous overflow, any amount of dirty water will be pushed outside and the water inside the glass will stay clean. This is the best protection on all energy levels: vitality, emotional, and mental. In our weekly meeting on this page we will discuss methods of achieving this state in all fields of life. The science of BioGeometry uses shapes, colours, motion, and sound to produce a vibrational quality that balances energy fields.

There are many things that we can do in every field of our lives to empower the energy fields of life on Earth. Certain laws of design in sacred architecture and also religious ritual of all kind are intrinsically linked to such an energy balance. Sacred power spots on Earth, that have always been used to build ancient places of worship, have this balancing energy quality that supports health and wisdom. That is why Healing and learning were attached to the temples.

Any new science that promises to provide solutions to the main problems facing our civilization, like the harmful side effects of electromagnetic fields on biological energy systems, resulting in the disturbance of immunity, should be validated through scientific research. The efficiency of BioGeometry has been proven in several research projects on

human, animal, and plants. A few examples are given at the end of this paper.

The breathing process of natural materials in a holistic view

When birds build their nests, every species builds it the same way using the same materials, even if they are in different areas of the world. When snails build their shells, they create new materials that are not found in nature to fulfill the needs of the construction of their shells, which are always the same for every species. These are new materials but they are nature friendly and play a part in the energy quality of the 'home' of the species. Their materials go through the energy forming process which is governed by the laws of nature. They do not go through the mental process to create a multitude of shapes as we do. By respecting the energy patterns of the earth and those of the natural materials we can sustain the balanced qualities on all the energy levels of the materials, which is actually sustaining the life force of the material. When they are alive and exchanging energy with the environment (holistic breathing) they can in turn sustain life around them. When we create new materials, like plastics, it is a bit more difficult. Location, orientation, interaction with the global energy grids, is also necessary to complete the forming process.

Back to the Future towards a New Architecture

A new architecture should bring balance into life energy fields, which results in a restoration of the efficiency of the immune system, to save humanity from self-induced global life extinction. This can be done through the resurrection of the energy quality forming principles in a modern context as they are found in BioGeometry. There are also ancient traditions of building like the Chinese *Feng Shuei* and Indian *Vastu* that deal with design practices related to the energy quality of buildings. They are based on ancient traditions.

The problem of moving ancient monuments

In the moving of ancient temples in upper Egypt to save them from drowning in the huge lake created by the high dam did not take all the above criteria of Energy quality into consideration. This led to the depletion of those monuments from their balancing energy quality that gave them their life and spirituality. We are killing monuments through ignorance of the energy forming process.

The New Museum of Civilisation

The competition for a new museum of civilisation is under way, without the criteria that that make up the energy forming process. These criteria should be specified and requested. There is knowledge out there about the subtle energy processes in architecture, and architects should be made aware of its' integration in their designs.

Validation

BioGeometry has been patented, registered, and its effect on the efficiency of the immune system has been scientifically validated in human health, animal farming, and agriculture research at reputable scientific institutions (see websites).

Although it is relatively new, there is already an increasing worldwide awareness of BioGeometry as a modern Egyptian science of energy balance. The principles of BioGeometry are already being used in many countries and have been featured in several professional publications.

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