SACRED GEOMETRY
AND
ARCHITECTURE

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From the mountain forest of Valle de Bravo, Arturo Ponce de León.
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INTRODUCTION

This book is the product of fourteen years of deep questioning, research, analysis, synthesis and understanding of the link that Sacred Geometry has - the mathematics of life -, with Biological Architecture - the designs and constructions made as a capacitor -, through of the scientific look; to the union of these three elements we call it Biofractal. Everything emerged in 2007 when we organized the 1st Congress of Biological Architecture and Sustainable Design at the Universidad Iberoamericana in Mexico City and against all expectations was filled for four days the largest auditorium with people from more than ten countries, 17 states of Mexico and ten universities. This was followed by a next congress in Wales, England with guests from all over Europe. From there, we have dedicated ourselves to ramify and expand the conceptual bases of the geometry of life and apply them in the design of spaces, construction, and interior design. This adventure has allowed us to visit dozens of countries and design and build projects that resonate with the principles of Biological Architecture and Sacred Geometry in addition to geometrically advising works of architects such as Rojkind, Garduño, among others.

The term biofractal evokes the complex biological systems ordered in such a way that they reproduce themselves as a range and the information of the whole that is contained in each one of its parts. This is the resilience power of biology; in every cell of a physical body is the DNA that has the information necessary to reproduce the whole organism. And the term goes beyond this because in the book we start from the central questioning of the reductionist view of science that has slowed down and slowed the technological advances for the management of gravitational force by proposing an integrative vision of science that unifies the universe of macrocosms - the physics of the stars - with the micro-universe - the physics of atoms and their particles - through the mesocosms - the universe of our biological range - by the unification of electromagnetic energy and gravitational energy. Both energies, in today’s science, are divorced. This is an error of vision since the entire Universe is an energetic and material range, look at how the same spiral geometry is that of galaxy information as it is of a plant unfolding in a spiral or the path following an electron around the atomic nucleus.

The geometric structural dynamics is the same regardless of the scale. Understanding this dynamic is crucial in the architectural task because it makes our designs suitable with the rest of the Universe, not only become aesthetic or functional but transcendent.
In this book we study this structural dynamics of the Universe and apply it to architecture so that present and future constructions embody in the energy flow of the same and fitting them, fitting us, as humanity. We gravitate around the cities and the tendency in the decades to come will be to become even more agglomerated in them. It is now when we have to learn to construct and design with the same geometric logic that the whole Universe does. The bio fractal of the universe is not restricted to a range, the Universe is alive - in varying degrees of magnitude - and the scientific community of unified physics explains it mathematically. Knowing this, how we design it allows us to fit in the toroid - the donuts- electromagnetic and gravitational of our physical body, the space we inhabit, the planet Earth and the Solar System.

The book is structured in seven chapters. The first three chapters are a journey and concatenation of the largest, middle, and smallest of the universe: the macrocosm, the mesocosms, and the microcosm. The first chapter talks about the macrocosm and our planet Earth. We analyze the geometric logic with which the Universe is linked and how it is linked by means of grids to the Earth, how different cultures and civilizations have been formed that have formed at the points of intersection of these networks or lumps of power, in one sphere they throw us hundreds of possibilities of planetary clods where life and consciousness can prosper. We end the chapter with a question about the type of technology needed to cut and assemble pieces of thousands of tons of stone.

In the second chapter, we see a detailed analysis of the geometric dynamics that govern our cellular level and how it affects the architectural design. We put forward the basic toroidal structure of the Universe, and we see how different scientists, thinkers, and researchers of different times have found resonance in these thoughts.

We talk about the reductionist vision and the integrative vision of science and how it has determined the vision of the rest of human tasks, influencing the way to conceptualize architecture and build buildings. We write carefully about the types of waves that construct our objective reality and how waves of form affect human biology. We also investigate into the study and technique of locating the different telluric networks that link the planet Earth and all its organisms and how to enhance their effects.

In the last part of this first trilogy, we venture into the microcosmic universe, with its formulas, numbers, and concepts that might be diffuse or unreachable, but we can do so in an enjoyable and understandable manner with synthetic graphics and principles that will allow a complete view on
how to implement them in design and architecture. The central theme is to understand that the structure of the Universe is a double torus and its dynamics is when a cube is compacted and forms an icosahedron. From there, the fundamental forces of the toroid are derived, the electromagnetic when it explodes and the gravitational forces when it implodes.

In the fourth chapter we make a geometric and semiotic analysis of projects - constructed and to be built - that we have carried out over a decade, applying the principles described in previous chapters to create a biological capacitor in a space that engages/exploits electromagnetic and gravitational energy. We go from the study of the people and the diagnosis of the terrain to the architectural, structural, biological capacitor, cosmoteluric planes, and their application to interior design. We explained the Amma Center, a boutique hotel related to the 22 chakras of the human energy system and its 22 cimatic images; Aiki Center, a center of therapies and conventions; the Lotus Heart Temple, a sacred space for the transformation of human consciousness and finally Bioss Lilah, a Montessori school built entirely of biological materials. Subsequently, we present other projects and works as well as the importance of weaving geometry in floors and walls to generate a resonance with the structure of the toroidal vacuum dynamics with spaces.

Michael Rice, an Irish architect of worldwide presence, describes in the fifth chapter his most recent works and the geometric interpretation of them. From the geometric templates and the freehand drawing of many of his projects to the construction of the Bio architecture Research Center in Ireland.

One of the most important chapters for those who seek to design with these principles is the sixth because it indicates all the elements that must be taken into account to achieve this. Finally, we analyze the factors that have to be taken into account to design a community mandala, an intentional fractal eco-village: the challenge of our cities towards a link not only more harmonious but more transcendent with the rest of biological life. We exemplify the communities in the world that have made history, their schemes of the legal constitution and their social order as well as the geometric organization of the management and use of power. We make a schematic synthesis of permaculture design and how to manage an agroforestry system. We also talk about the geometric designs and their meaning as well as the alternative technologies that can be used in this type of human settlements.

The eight chapter explains the transcendental work Dan Winter & Paul Harris has made with the Theraphi, a cold plasma device that function as the “hearth” for buildings and temples all around the globe. This device
is able to interact with the fields of the earth and synchronize our DNA to the best ratio possible, the golden ratio, to achieve rebalance and rejuvenation. Placed as the “hearth” in a building, temple or house significantly benefit all the surrounding area, town or city.

The last chapter is written by Juan Schlosser explaining in great detail how the five elements from the Chinese and Hindu Philosophical Traditions interact with the design of a building, the election of the materials and how we can achieve the goal to transform architecture in a regenerative architecture.
We find ourselves embedded in the planet Earth that is floating in space/time and wrapped in the gravitational force of the Sun travels it with an average speed of 29.8 km / s, that is 107,380 kilometers per hour. A tremendous speed we do not perceive. In turn, the Sun moves within the galaxy at an average rate of 220 km / s, converted at kilometers per hour, there are 792,000! We move fast in our human velocity parameters; however, our range of sensory perception prevents us from being aware of it.

If we draw this motion, we will realize that the planet does not revolve around the Sun describing an elliptical orbit. This conception that accompanies us from small is erroneous. Why? Because the Sun is also moving over the Galaxy, which leaves us with a pattern of spiral motion where the planet Earth never returns to touch the same physical place. A terrestrial year or a return from Earth to the Sun is never a return. It is a transfer from a point to
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THE MESOCOSMOS AND BIOLOGICAL ARCHITECTURE.

The spiral present in the micro, meso and macrocosm
Between the infinitely large, the macrocosm, and the infinitely small, the microcosm, lies the cellular world, the mitochondria and with it human biology. For decades physicists have established a mathematical and geometric model that divorces the small and the gigantic. For the great, the cosmic world, formulas, and theories are used that are opposed to the infinitely small, the quantum world. Some tend to order, others to chaos. Theoretically, they are irreconcilable because they are raised from the bias of the observer.

However, thanks to the theoretical and experimental advance of the physics of unification, we now know that they are the same model, they are integrated by the same structural dynamics: the toroid. And two expressions arise from both the electromagnetic energy and the gravitational energy. It does not take a Ph.D. in science to observe that Nature in the small, medium, and large use the same geometric structures. Toroidal movements, spiral movements, fractal nesting. The proportions and dynamics are the same, even if the size changes. The gravitational attraction exerted by the Sun by the planet Earth is the same gravitational attraction used by the proton by the electron. And in the middle of the scale, conceptually, we meet human beings with all our culture and our constructions. The central, core question is: why do we not duo the constructions reflecting this same structural dynamics of Nature? At what point do we disassociate ourselves from these matrices?

The central proposal of the Biological Architecture is to link ourselves to this energetic flow employing the use and imitation of the dynamics and structure of the Geometry of Nature, the Sacred Geometry. Biological Architecture is state of the art to design and build with sustainable geometry raising the level of harmonic inclusivity of the electromagnetic field and the gravitational field of Nature in relation to the Earth, the Human Being and the Cosmos. It is a design system for the creation of transcendental geometric spaces. Recover, imitate, and transcend the design patterns that Nature uses to sustain an electromagnetic field quality of greater interconnection. Fractality is the science that supports this design.

The best way to generate fractality is through Sustainable Geometry, formerly called Sacred Geometry. This fractal geometry can be used in three spheres of design: the sphere of the conceptual, the sphere of the imaginary and the sphere of the real. In the sphere of the conceptual we find intellectual abstraction through symbols or archetypes of a given culture. In the sphere of the imaginary, we see the manifestation of a sensory image, semi or emotion coming from a culture or as a design proposal. Finally, in the sphere
of reality, we observe an imitation of the geometric processes of natural creation of life in the cosmos.

Sustainable Geometry is a path that helps us understand who we are in a harmonious relationship with our environment. It is a guide to the center of our essence. Everything in the universe is interconnected and beyond the illusion of independence and separateness, we can observe patterns, codes, and structures that organize the material universe. So far as we open ourselves to perceive with less judgment - less intellectual molds, we become more useful to Nature, through the harmonious design of our space or the manufacture of more complex ecosystems.

As we described in the book of the Power of Life in Sacred Geometry and Biological Architecture (Ponce de León, 2008, p.6), “Sustainable Geometry is the study of the mathematics of life. It is a metaphor for the ordering of the universe: the study of the proportions, patterns, systems, codes, and symbols that underlie as the eternal source of life of matter and spirit. Sustainable Geometry is the fingerprint of Creation. It is the genesis of all forms of life. We live in a semiotic universe, which is, built from meaning processes. We elaborate on these meanings based on codes, structures, languages, and symbols. Nature also has its language, geometric language. Sustainable Geometry is the code that Nature uses to create life. “We find
3.1- The origin of Energy

The term energy is ubiquitous in physical theory and in research and is identified as having many forms: kinetics, electromagnetic radiation, potential, thermal, etc. While energy is very well understood in terms of its dynamics within these forms, the true origin of energy in the universe is unknown until now by official scientific circles. The equation $E = mc^2$ where the three physical attributes of the Universe are compressed, the source or cause of them is undefined: energy (defined only as property of objects) mass (the source from which it is currently attributed to the interaction of quantum particles) with the Higgs theoretical field but otherwise unknown), and the speed of light (of which there is still no explanation as to why light travels at the speed that it does). Even something as fundamental as gravity has no explanation of its origin in classical physics.

3.2- Quantum Physics

It is common to see these days that the word quantum appears in magazines, business, movies, and other places. However, many people do not know what quantum means much less their history or the relevance it has for understanding the nature of our Universe. Quantum as a noun means a particular quantity; as an adjective, it means sudden and significant. In physics, quantum means, as a noun, the smallest amount of radiant energy, equal to the Planck constant multiplied by the frequency of the associated radiation; and the fundamental unit of a quantified physical quantity, such as angular momentum. Max Planck was able to determine the exact proportion that connects to a specific amount of energy with its frequency. The word “quantum” is commonly associated with the phenomenon of instantaneous
interaction between entangled particles, multiple realities, and even numerous parallel universes. These ideas are not inherent to the quantum word but are related to specific interpretations of the theoretical approaches of the quantum theory, which is the general area of theories associated with the study of energy quanta, referred to as particles.

In fractal physics, the vision that unifies both the cosmic macro world (gravity) of the stars galaxies and the microcosmic world of molecules and atoms (quanta) is quantum gravity.

3.3- The Standard Model of Contemporary Physics

The 1900s brought many new developments to the model of modern physics, especially in the formulation of the standard model of particle physics. However, many of the problems have yet to be resolved. Its most enormous deficit is the complete inability to explain one of the most prominent experimental forces in the universe: gravity. While there have been many proposals for a theory of “gravitons” as the gravitational force of gravity, it is commonly considered impossible to detect this version of gravity particles with physical apparatuses.

Two theories have tried to close the gap of the great division between quantum mechanics (considered by its better definition the Standard Model, in the microcosm), and gravity (explained by the particular theory of Einstein and General Relativity, in the macrocosm).

3.4- The Gravity of the macrocosm and the Quantum of the microcosm are united

In modern physics, the holographic principle expresses that information is present within certain structures in the Universe such as black/white holes. Holography is the science and technology that allows an image to be captured on a photosensitive surface in such a way that the three-dimensional information of the image is retained and is visible in a similar way as the real object. The difference between a photograph and a hologram is that while in the photograph there is a one-to-one ratio of information at each point of the image in the hologram at each point there is information about the whole image.

This holographic principle in physics implies that the information that crosses the horizon event of a black hole is holographically represented on its surface. Analogously we can think that on the skin is all the information
that a person can capture. The horizon event of a black hole has been found to act as a holographic disk where all the information of its volume can be represented in its surface area. As a result, this holographic principle aptly predicts the entropy or temperature of a black hole and corresponds to a quarter of its surface. In 1975 the mathematician Benoit Mandelbrot coined the term fractal that describes a type of mathematics that resembles the repetitive and intricate patterns found in nature when they are represented visually. Patterns found repetitively on coasts, clouds, leaves, are examples of the underlying geometric order than fractal mathematics.

A fractal is a pattern that is repeated on all scales. Fractal is defined as an object or quantity that shows self-similarity, in a technical way, in all scales. The object does not need to have exactly the same structure on all scales, but the same type of structure appears on all scales. The two fundamental principles of the universe are the holographic principle (the information of the whole in each of the parts) and the fractal (the pattern found in different scales). This is called the holofractographic principle, a term coined by the physicist N. Haramein.

3.5- The unit of measurement of the Universe are the Units of Planck

Our perception of space / time has led us to theorize that everything
4

BIOFRAC TAL DESIGN PROCESS

4.1- European, Hindu and phenomenological geometric order by contraction and expansion

There are hundreds if not thousands of geometries and derivations of them. Where to start in this sea of possibilities? While it is true that all order is a subjective order, a frame of reference allows us to locate ourselves and know where we come from, where we are and where we are going. It is a map, not the topography, of the geometric universe. And as any map is improvable, questionable and an approach to the indescribable, life itself. After almost two decades of studying the patterns, the forms, the geometries, of seeing and being seen by them, of listening and observing how they conform, the dynamics of space / time, of matter / energy are drawn and blurred. You should understand something: all geometry is sacred and all that is sacred is geometric. Because all geometry can be fractal and all that is sacred can be geometrical.
At first we believed that the golden ratio was more refined than any other proportion. Then we discard that hypothesis. Nature creates life using many more proportions than the golden one. The golden number, 1.618 ... is an asymptote. It is non-existence. It is the demarcation, it is a limit. It’s the vacuum. And in the cosmic breathing, in the process of life and death, of the inhalation and exhalation of the universe, much geometry intervene, chaos and order, simultaneously. It is complex to think about how order and chaos can occur at the same time. However, when we think about it with the integrated hemispheres, it is possible.

Transcending the illusion of orthogonal constructions implies an interior work of integration of the right hemisphere and the left hemisphere of the brain. When both work in unison, the intuitive part and the logical part create a third possibility: fractality. Physically the brain has the shape of a toroid. When the corpus callosum effectively intercommunicates both parts in the center, a larger toroid is nested. That is why the brain is an antenna that if emptied, like the Buddhist maxim, allows morphic resonance fields to be nested in a wider spectrum. It is not only a matter of climbing in the development of intellectual capacities, but of increasing the possibilities of consciousness emotional, intellectual, motor, sexual and spiritual. This gradually shapes the architectural work, the work of design until it manifests naturally.

After many years of using the logical hemisphere and some others of using the intuitive hemisphere, for brief moments we have seen the natural flow of geometric fractal imbrication. And we see it with the bias of our range of sensory perception that configures our own closed universe of apparent stability. That universe in which, we move. Eventually we understood that emptiness only exists as a concept. All is. Everything exists in different degrees of vibration and resonance. As we explained earlier, the so-called void by the scientific community is too full of energy.

In this way we can think of several accommodations on the map to give us an idea of where we are and where to route the design. So many maps have emerged as human beings and possibilities. In European interpretation we have a well-known arrangement of Platonic solids. The tetrahedron is the heart, the fire element. The octahedron the kidneys, air element; the icosahedron the liver, water element; the hexahedron the lungs, earth element and finally the dodecahedron that represents the ether, the akasha.

However, there are other possibilities and accommodations depending on each culture. In the Hindu interpretation of Platonic solids the icosahedron is the first form, the being, the divine essence of everything, represents the
**European Interpretation of Platonic Solids**

- Tetraedro: Fuego
- Octaedro: Aire
- Icosaedro: Agua
- Hexaedro: Tierra
- Dodecaedro: Éter

**Hindu Interpretation of Platonic Solids**

- Icosaedro Madre
- Dodecaedro Padre
- Doble Tetraedro Ying / Yang
- Cubo

- Octaedro Pirámide
5

BIOFRACTAL ANALYSIS OF PROJECTS CARRIED OUT BY ARQKA

5.1- Amma Center: geometric and semiotic analysis of Centro Amma, a project designed with the principles of Biological Architecture and Sacred Geometry.

The Centro Amma project is located in the State of Morelos, Mexico and is an eco-boutique hotel with 22 duplex rooms. It was designed so that the ground floor is a physical toroid and a space for therapies and the upper floor a free vaulted space that functions as a guest room. The base geometry of the project was deduced by the spiritual function that it sought to facilitate: activate the pineal gland. From the sphere of the real where the pineal gland physically has the shape of pineapple or conifer, architectural forms constructed with superadobe were proposed, thus satisfying the need for the constructive system of vaults demanded by this material, in the form of a conifer of two levels.

The relationship as a whole with the 22 rooms representing in the sphere of the conceptual and the sphere of the imaginary the 22 chakras of the human body according to the Egyptian system follows the line of generating greater fractality between the function of the place and its geometric design.

The principle of fractality is linked from the conception of this geometric template that applies both to the logo, to the whole plant, to the architecture of the rooms and to the applications in decoration and interior design.

5.2- Studies of people and diagnosis of the terrain

Two types of studies were carried out: to the persons in charge of the project and to the land as such. First a bioclimatic study of the terrain
Bioclimatic analysis: Giovani’s graphic

Conceptual analysis: logo and brand
Conceptual Analysis: Power Riddle

Conceptual analysis: pineal gland and 22 chakras
In general, the warm colored areas represent places of greater harmonic wave inclusivity. This allows a greater heterodynamic conjugation and a greater constructive interface of the waves. In short, adequate spaces for biological life to flourish.

*Analysis of the fractality of the electromagnetic field*
Duplex: ground floor

Duplex: upper floor
Cosmoteluric Study: Telluric Geometric Grid

Cosmoteluric Study: Anthropomorphic Geometric Grid
Cosmoteluric Study: Cosmic Geometric Grid

Cosmoteluric Study:
Geological fracture
Hidden geometry manufactured in Copper
1.11 m in diameter
Study system 22 chakras and cymatic image
All the Cymatic images were produced by Ing. J. Stuart

Chakra 1
Crown Chakra

Colour: white / blue
Musical note: A4 sharp
Tone number 50: 457,688 Hz
Crystals: clear quartz, clear calcite, clear apophyllite, selenite.
Element: air
Zodiac: Aquarius / Gemini
Fragrance: Lotus, white jasmine, white sage
Chakra 2
Third eye chakra

Colour: violet / indigo
Musical note: A4
Tone number 49: 432 Hz
Crystals: amethyst, iolite, azurite, sodalite kyanite.
Element: air
Zodiac: Aries
Fragrance: violet, rose geranium, white musk
Lotus of the Heart: ceiling plant

Lotus of the Heart: longitudinal section
Lotus of the Heart: aerial view

Lotus of the Heart: access view
Lotus of the Heart: high floor
Lotus of the Heart: central geometry
5.12- Wayu

Mexico
250 sq
Study of custom geometries and interior design
5.13- *Aries Home*

Mexico
850 sq
Study of custom geometries, preliminary project, executive project and interior design
5.14- Love Home

Argentine
550 sq
Study of custom geometries, preliminary project, executive project and interior design
5.15- *Earth Angel Belice*

Belice
7,500 sq
Study of custom geometries and preliminary project
5.16- Soul Home

Argentine
700 sq
Study of custom geometries, preliminary project, executive project and interior design
5.17- Ahava

Mexico
600 sq
Study of custom geometries, preliminary project, executive project and interior design
5.18- *Earth Angel España*

Espana
12,000 sq
Study of custom geometries and preliminary project
5.19- *Fortunata - Therapy Center*

Mexico  
90 sq
Study of custom geometries, interior remodeling and floor geometry.
5.29- Garduño - Residency

Mexico
Land: 1000 sq
Construction: 500 sq
Study of custom geometries, cosmotelurico study, study of electromagnetic field, advice in sacred geometry to the architectural design, weaving of geometries in floor.
2.30- Finca Aine - Ecologic Ranch

Mexico
Land: 2 hec.
Construction: 350 sq
Study of custom geometries, cosmotelurico study, electromagnetic field study, architectural design, interior design.
The desire to create is absolutely fundamental to our nature. All life seeks to optimize its potential, balance its energy with the environment and fully express their dreams and desires. Very often this powerful impulse takes us to a point of contemplating the construction of a house that fully represents our needs, hopes and dreams. As a creative process, this can be very satisfying, as well as somewhat discouraging. As a social habit, we usually delight in telling horror stories of people who had difficult, if not terrible, experiences with any or all of the stages of building their homes.

We have been involved in the design and construction of more than 350 buildings in the last twenty years. The feedback from builders, occupants and visitors presents a reality very different from what is normally expressed by most people in their construction process. It is completely normal for people to tell us that they prefer to spend more time in their home since the energy of space is very positive. There are also many examples of people working in these buildings who would choose to return to work for free on their day off, because “energy is much better”. In some beautiful cases, couples who had been diagnosed as unable to have children, conceived and gave birth to healthy children as they embarked on this life that improved the creative display. Enjoy these designs, projects and constructions that were made with passion, humor and fun. All of them optimize the natural impulse of life, consciousness, openness and innate abilities in every human being.

6.1- Genesis

Genesis is the name of a unique construction conceived in 2005 and manifested in the hills of the Slieve Bloom Mountains in the heart of Ireland. It was designed by Michael Rice and built using the best principles of
Biological Architecture and Sacred Geometry, fully incorporating the deep knowledge and benefits of both. Nestled in a beautiful field of 4.5 hectares (facing south), it consists of more than 950 m² of construction on five levels.

The layout of the entire building is designed to maximize the flow of physical movement, the optimal collection of light and heat, and has multiple opportunities for different rooms and different uses of spaces. There are many different forms of rooms and configurations, this offers wonderful experience and great opportunities to live and work in the harmonic energy of natural forms.
This simple cottage design was based on providing a sacred design for a person, couple or small family in the European style of the mountain house.
COMMUNITY MANDALAS: INTERNATIONAL FRACTAL ECOVILLAS

There are some very few examples built on the planet of human settlements designed based on the principles of Biological Architecture and Sacred Geometry. Many less are those that were architecturally designed and that function socially as a community. Let’s clear some terms. A village is a human settlement that meets certain characteristics of infrastructure, services and equipment. An ecological construction is one that is made with the materials of the area as far as possible and has a low environmental impact on the use of its resources.

An ecovillage is the sum of both concepts, a human settlement rooted in an ecological construction. If we add to this the use of fractal geometry in its design we have a fractal ecovillage. However, the human, social component arises. They are not stacked bricks what give meaning to a village but the task and social purpose what determines it in its daily functionality. And the sense

Indissoluble unity: symbolic, real, imaginary
of a fractal ecovillage is not only to protect from the environment and socially bind us but to generate an awakening of the increased capacities of human consciousness, specifically the capacities that correspond to the superior intellect, superior emotions and superior sexuality.

A fractal ecovillage generates a transcendence of the human spirit, and it achieves this through the constructive nesting of waves in geometric patterns that implode / exploit the toroids of the individual and the group. They are spaces that distill a coherent electromagnetic field, a powerful gravitational field and a connection vision of the interior and exterior. In short, a momentary utopia, a sporadic collective dream, difficult to maintain over time. Because these spaces questions the neoliberal order. They question it deeply; question its values, its way of proceeding, its daily tasks. And these spaces are not created by a group of human beings coming from other planets; they are created by everyday human beings. The meat and its needs coexist with the spiritual needs and aspirations and this sometimes chaotic, sometimes harmonic dance arises hundreds if not thousands of possibilities of design, possibilities of exploration of the conscience. There are those who seek to live in ecovillages fleeing from the conflictive life of the cities; there are those who do it looking for an emotional bond of greater cores of intimacy; others do so by establishing a link with Nature or by facilitating a

The 4 pillars of a community
healthier lifestyle. But they all have something in common: they are rebels. There is a flash of rebellion in his spirit, a peaceful rebellion that questions the way of proceeding in the modern world and seeks other experiences, another way of living. It is not better or worse: it is different. Although in that difference it can be the same and it can be repeated, as it happens in the great majority of cases, the same world from which it fled worse magnified in its positive and negative aspects. So creating a village with friends, family or strangers is an experience as unique and particular as leaves on a tree. All are different even if they comply with a base pattern.

There are glorious examples of communities in resistance that are grouped for very specific purposes as is the case of communities in favor of nature or spiritual communities or communities for martial arts practices to say the least. All of them are the core axis to build a fractal ecovillage. There has to be a direction, an axis around which it turns, a void, an implosion / explosion point around which toroids are nested. If this base point does not exist, it is not possible to generate any community. And this central point has to exist in all areas, in the realm of the real, the symbolic and the imaginary. Sometimes this central point is a person, a couple, a doctrine, a philosophy of life. But there has to be something that cohesion that gives meaning that unites the members. If is absent, any attempt at a congregation will be frustrated. When the roads diverge about the direction that people have to follow, general are frustrated, and with frustration comes anger and disenchantment. Avoiding this process is possible. Because these communities are intentional.

They exist for an intention of transcendence. Unlike living in a city where settlements are usually for satisfying economic, labor, food and luxury needs; an intentional community is formed in time and space with a clear determination to explore an aspect or feature of human consciousness. It can be as diverse and complex as you think. And in the almost twenty years that we have dedicated ourselves to the study of the Fractal Geometry we have seen and known all kinds of human vicissitudes.

The phrase “we meet with good intention but with bad aim” is synonymous with a failed project. An intentional fractal ecovillage brings together these four aspects. It is ecological in the etymological sense of the word, that is, it uses an economy based on the resources available to it; it is fractal, because it is designed with the principles of Sustainable Geometry and Biological Architecture; it is intentional because it has an implosion / explosion point, a zero point which allows gravitating a number of human, energetic and carnal contributions.
And there are many expressions of human settlements that comply with this or that thing, few that meet the four criteria. Because it is complex and it is not comfortable. It is easier to agglutinate and follow the process of urbanization of our time. Today, approximately half of the world’s population lives in urban settlements, the other half live in the countryside. And this process of gravitation around cities increases every year.

More and more people want to live in cities, migration is brutal. It is easily understandable since in cities there are more resources in services, equipment and infrastructure. It is the dream of modernity with its mirage of development because this modernity implies the theft of non-renewable resources for the rest of the planet. It is unsustainable in the years to come as the level of consumption is higher than the level of production.

This in a few decades will generate the search for alternatives, there enters the conception and awareness of construction of fractal ecovillas. Now is not time even as human consciousness tends to gravitate toward cities but when these are unbearable because of the low quality of life (what is the use of having so much capital accumulation under the detriment of health) people will seek to create in the countryside uninhabited these communities. For them we write this vision. They have tried all over the world to make projects with these characteristics; however, the vast majority of them have failed because human consciousness at the level we have now has other priorities. Perhaps with the emergence of gravitational technology this process will be facilitated.

For now we can say that the amenities offered by a city and the level of productivity of the same makes a more succulent dish to be squeezed in small rooms and departments that live the difficult and laborious process of establishing a settlement in the middle of the forest, the jungle or the desert. If we add to this the economic and social conditions of a distribution of polar wealth, where there are more and more poor people with less money and less rich with more money, the short-term solution is not visible in this decade. Perhaps in two or three decades there will be a massive movement to gravitate around this way of life.

7.1- Global examples of fractal communities and alternative settlements

To think and design a village, at least four general items are taken into account: the social dimension, the economic dimension, the ecological dimension and the world view. Robert Gilman (1991) defines an ecovillage
The five elements: Earth, Air, Water, Fire and Aether offer a comprehensive and direct approach to bio-architectural design and the creation of manmade environments. The Five Elements speaks of a holistic approach to the design of architecture, and the necessity of our connection to these primordial elements. These are then used to generate a set of design principles for the creation of harmonious and healthy architectural environments, and holds the key to creating an energetic symbiotic relationship with our natural ecosystems.

The elements, and their design principles:

• Earth: geomancy, grounding, fractal bioactive materials, agriculture.
• Water: water restructuring devices, water features, biomimicry, regenerative design.
• Air: Air quality, passive systems of ventilation, systems integration, interior space, informational fields/prayer.
• Fire: Natural light, technology, coherent fractal field generators (CFFG), EM pollution.
• Aether: Shape power, life force, Sacred geometry, Fractal design, Bio-geometric translators.

Regenerative architecture
“When structures are designed from the realization of the intrinsic energetic aspects that exist throughout all of nature, we will naturally re-enter into a regenerative/symbiotic relationship with our environment, thus revealing the ultimate purpose of bio-architecture.”

Juan Schlosser-bioarc
8.1- **Earth: geomancy, grounding, fractal bioactive materials, agriculture**

Earth = The practice of “earthing” has been shown to have dramatic effects on health, which emphasizes the importance of our connection to the natural elements.

Our modern world practices have severed the essential connection to the earth element as it relates to agriculture and have disconnected conventional buildings from the earth’s energy.

Food in most homes doesn’t grow in the immediate environment, therefore not only is it devoid of life force due to modern non-organic, toxic agricultural methods, but it also lacks the local environmental biome, which is essential to the ecosystem that connects plants, animals and humans.

The bio-architecture of the new earth paradigm will connect to the local environment in life-positive ways, promoting and maintaining the health of all beings while also supporting balance within the micro environment itself.

**Geomancy, geomagnetic survey:**

Architecture will only integrate energetically with its surrounding environment when it accounts for the subtle energies emitting from the earth.

Geomancy literally means, “Divining the Earth”. It is the art of harmonizing with the subtle earth energies that flow throughout the landscape. The naturally occurring energy grids of our living sentient earth are affected by many influences: electricity, magnetism, the time day or night, light, color, heat, sound, matter, and consciousness. The planetary energy grid operates through certain geometrical patterns. The grids meet at various intersecting points forming a kind of matrix. They are called, Ley lines or also known in ancient traditions as ‘song lines’ or ‘dreaming track’. This energetic grid and the intersecting nodes are equivalent to the Meridians and acupressure points on our bodies, performing a similar function to this energy channels, these grid points are generally found at the places of strongest power on the planet.

In order to locate energetic lines and beneficial, or detrimental energy vortices on the land, specially designed pendulums or other forms of dowsing can be used. These measurements can be confirmed by geomagnetic surveys using additional specialize instruments.
This information can serve to inform the creative process as to optimize the particular location in such a way that will enhance the arrangement of particular architectural features. Thus utilizing power spots to decide parameters of landscaping design, particular location of permaculture gardens, compost piles, waterways, paths, etc. All can be designed to create a coherent relationship, where all these different features will be harmoniously located for synergistic interactions with the earth’s energies.

The development of human-made environments that do not connect with the subtle energies of the earth will never reach their full potential as sustainable, life-enhancing environments. Therefore, geomancy is a fundamental design principle of bio arc buildings. The conscious application of these principles in the creation of communities and human settlements can repair the damage that our existing civilization has created, with and in, this energetic network and the effect that it has upon the individual and thus collective consciousness.

**Grounding:**

Or earthing, systems are concerned with balancing the electrical fields of our bodies, thus improving our health, by increasing the quality, as well as the quantity of our physical connection to the earth energies.

The earth is charged with a negative electrical potential that is vital for our health and wellbeing. Connection with the earth has been shown to produce anti-inflammatory effects, increased blood flow and viscosity are just some of the many other demonstrable health benefits.

Grounding has a particularly vital secondary function, whereby the presence of excess EM energy that has accumulated in the body, is grounded back into the earth and out of the body. This so-called “electro smog” can affect the regenerative process of our bodily functions, especially during the sleep restorative phase, whereby the proper functioning of the pineal gland in the production of melatonin is often dramatically reduced, leading to premature ageing and disease. Grounding has been shown to help to reverse these tendencies.

**Earthing systems:**

can and should be used to ground entire buildings. This natural phenomenon is cultivated by earthing systems described in this bio architectural design system. The earthing systems are composed of copper
THERAPHI: HOW TO RESTORE HEALTH WITH COLD PLASMA

BY DAN WINTER

There have been thousands of cases documented in scientific journals on this fantastic subject. A 2017 study found that in the last decade, cold atmospheric plasma (PAF) (an ionized gas at room temperature) has shown its promising application in cancer therapy. In other words, “two PAF devices show significant anticancer capacity in dozens of in vitro cancer cell lines and several subcutaneous external graft tumors in vivo. Unlike conventional anti-cancer approaches and drugs, the application of cold plasma is a particular anti-cancer treatment modality. [Yan D., et. al]
Figure 1: The physical description of plasmas. a. Schematic illustration of the four fundamental states of matter. Triangular glues represent the thermal moving force of particles. b. Schematic illustration of thermal plasma and cold plasma. The brown, violet and iridescent balls represent the neutral atoms, the positively charged ions, and the electrons, respectively.

On the other hand, a recent article published 190 revised articles on the use of Cold Atmospheric Plasma for the treatment of oncology. The results are overwhelming, “the most targeted cancer cell lines are human cell lines (87.4%), particularly in brain cancer (16.3%). The aim of this systematic review is to map the use of FAP in oncology and the methodologies implemented (cell targets, physical parameters, direct or indirect therapies). (...) Among the different promising biological effects, plasma can induce apoptosis of cancer cells resistant to conventional chemotherapy and can be used in combination with current treatments to obtain synergistic and complementary action. To date, no resistance to PAFs has been reported. [Dubuc A., et. al]

Human health is as complex and simple as our existence. Health, according to Dr. Smith, involves a three-pronged approach: detoxification, rebalancing the intestinal flora, and regeneration. In this case, Cold Atmospheric Plasma devices, such as Theraphi, can be used to enhance these three aspects. In his latest book, he states that “the common denominator of the universe and of life is scalar energy (technically called longitudinal electromagnetic energy - Theraphi mechanism). Scalar energy is recognized as a phase conjugated double helix waveform that provides the template for repairing our DNA. It also has the ability to disassemble toxins (heavy metals, chemicals, viruses, bacteria, and foreign substances) by altering their molecular structure, making them inert and non-reactive. Scalar energy
also stimulates stem cells for repair. In essence, scalar energy is the “Holy Grail”. (...) The ultimate benefit of the plasma generator is that the coherent electromagnetic field created by the Theraphi system restores your body to its original condition. In other words, your cells return to a “factory default” setting when everything was in a state of health. This represents the best anti-aging effect. [Smith, G.]

The Theraphi is a device composed of three elements that emit an infrasound bioactive field and plasma light. The quality of the light emitted is centripetal, negentropic, i.e. it restores the lost order. This type of electric charge field is by definition the opposite of inflammation, cysts and tumor growth. It is the efficient distribution of charge that is electrically the opposite of cancer. When a person is in this field the sensation is to be more energized, with an increase in metabolism and circulation. The distribution of load optimized by the theraphi facilitates circulation and this can help in many types of ailments. You can also experience states of joy or ecstasy because plasma light or formerly called “Divine Light” accelerates metabolism, heart rate and pumps the cranial-sacral fluid through the spinal column through the process of awakening Kundalini.

In the fascinating publication “favourable and unfavourable electromagnetic field frequency patterns in cancer” by Dr K. E Meijer, Hans J. H. Geesink, show that the study of electromagnetic frequencies appears in a fractal pattern of 12 beneficial (anti-cancer) frequencies and 12 detrimental (cancer-promoting) frequencies that form a central pattern of a broader electromagnetic field spectrum over cancer-promoting or cancer-inhibiting
FINAL THOUGHTS

The biofeedback that your thought forms generates in the toroidal matrix makes it possible for us to gradually move - as humanity - towards designing and building with the same intuitive logic that Nature does. The principles of design here are the product of almost two decades of interior and exterior work, of observation, of successes and mistakes that have shaped and shaped our consciousness. The direction is clear and defined: fractality. If all the hypotheses exposed here were erroneous, the substantial would remain: a mirror of reflection in the task of architectural design and the construction of the buildings where we spent our lives. The invitation is to open the range of possibilities and dare to make genuine proposals, arising from the inside - uniting sexual gonads, thymus and pineal gland - to express the needs of a planetary consciousness that opens towards the conquest of gravity and Unification science.

In a few years we will have gravitational technology and an abundant flow of energy resources. The whole humanity will change the ways of thinking, feeling and acting for those that allow us to grow in consciousness, because consciousness is a mirror, it is the feedback that we all generate and that has been accelerated by the internet, from the thoughts and reflections of each one of us. A decade ago we were pioneers in creating the concept of biological architecture and linking it to sacred geometry with design and constructions. Today we launch the arrow even further: the construction of community fractal settlements. Maybe as humanity it takes us two or three more decades. Maybe not. But it is the way forward to make efficient and manifest the geometry of life in which to do every day and make the party of being embodied on the planet Earth a rejoicing as it has been to this day. Thanks for walking the path with us.
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Can architecture generate a force that transforms us into extraordinary human beings?

This book is the product of fourteen years of deep questioning, research, analysis, synthesis and understanding of the link between Sacred Geometry - the mathematics of life - and Biological Architecture - the designs and constructions made like a capacitor -, through the scientific gaze; we call the union of these three elements Biofractal. Everything arose in 2007 when we organized the 1st Congress of Biological Architecture and Sustainable Design at the Universidad Iberoamericana in Mexico City and against all expectations the great auditorium was filled for four days with people from more than 10 countries, 17 states of Mexico and 10 universities. This was followed by a congress in Wales, England with guests from all over Europe.

Since that time we have dedicated ourselves to branching out and expanding the conceptual bases of the geometry of life and applying them in the design of spaces, construction and interior design. This adventure has allowed us to visit dozens of countries and be hired to geometrically advise the works of great architects.

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