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Homo Astralis

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ABSTRACT

The paper deals with the fate of *homo gravitas*. As an archetype of the existing humans, *homo gravitas* is mirroring in Heraclitus' universe like into its whole. In spite of this privileged astral position, *homo gravitas* is experiencing trouble with its own life at home, on the earth and behaves cruelly to its environment. This paper brings proof that all trouble is due to some disconnections occurring with its gravitational and energetic ties. Some of the damage lasts for a long time, but most has been produced during the former cultures. Those disconnections disturb what Paracelsus called the inner harmony of humans and psychic disorders result. They disclose the existing conflicts between the body and the mind. It was evaluated that 25% of total population is seriously affected by the disease called here *schizophrenia astralis*. It is not an infecting disease, but its danger increases with population growth. By raising awareness and eliminating its causes with equanimity, *schizophrenia astralis* can be eradicated before it is too late. Then, with a well-balanced body-mind couple, *homo gravitas* automatically becomes *homo astralis*. Anyway, there is no longer need to emigrate on other planets or meet aliens.

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1. Introduction

Homo gravitas is a syntagmatic term adopted in the paper submitted to a Symposium held in New Delhi, India [Sofronie, 2017]. It is a model of human being regarded from the perspective of the gravitational field in which it lives. Since 'form follows function' the human was modelled standing, in the direction of gravity and with a vertical plan of symmetry, which means its gravitational balance. With the aid of that physical model the historic affinity of humans for gravitation was disclosed. The above mentioned paper also assumed that the name of *homo gravitas* was on Oedipus' lips when he proudly answered the riddle about human consciousness that the Greek Sphinx asked him under death threat. Thus, before becoming the King of Thebes, Oedipus gained the distinction of the first *gravitas*, aware that his life was submitted to the control of gravity. The objective of this paper is to investigate the inner structure of *homo gravitas* in order to evaluate its future prospects.

Life on earth is a miracle in motion, indeed. All material bodies, on and around the earth, are moving in the gravitational field of reciprocal attraction generated by our planet. Gravity is one of the two subtle physical properties of matter. The other one is inertia. For the purpose of this analysis, both forces, gravity and inertia, are applied in body center of mass and are directly involved in their two mechanical states, namely those of motion and of rest. However, only the force of gravity causes motion. Inertia is a force always opposing motion and rest. According to Stephen Hawking there are four forces that act in universe: 1) gravitational; 2) electro-magnetic; 3) atomic; and 4) nuclear. Of all four forces, the gravitational one is by far the most important for life. That is why it is also called a *vital force* as it is the only one of interest for this paper on *homo gravitas*. If force is the cause, usually not seen, motion is its visible or felt effect.

There are only two types of motions, 1) linear or translation and 2) circular or rotation. In the current space of living the first type of motion is limited by a beginning and an end, while the second has always a center of rotation, and sometimes it can be endless, without a beginning and an end. For instance, raindrops fall down vertically. The waters of rivers flow downstream, while the waters of lakes are kept horizontally by gravity and mirror the whole sky in still weather. On the agitated waters of seas and oceans gravity keeps the waves standing, preventing their detachment by the fury of winds. On the slopes of hills and mountains gravity often produces landslides in warm seasons and avalanches in the cold ones.

The miracle of life comes from the energy of the gravitational field which is mainly generated by earth. For our planet there are also other sources of energy located in the cosmos. Among them the strongest is that of the sun. It is currently accepted now that the energy is a physical state of matter. All three aggregation forms of matter: solid, liquid and gas have energetic equivalents. The intensity of the gravitational field corresponds to the density of matter. This means that the universe has an essentially energetic structure apparently with a non-homogeneous distribution in space. According to anthropology, in the ancient times the quadruped animal received little cosmic energy due to its long horizontal body falling perpendicular on the vertical lines of gravitational field. It happened once that some birds or flowers in a tree have drawn its attention and the animal raised up its head a little. The induced gravitational energy in the animal body immediately increased under the new inclination. By repeating that motion again and again, along some thousands of thousands years, the animal became biped and finally *homo erectus*. Its soles gradually extended, for stability reason, while the volume of its brain increased, receiving less blood.

Following its ascendant evolution, *homo erectus* successively became conscious and finally *homo gravitas*.

Naturally, the first *homo gravitas* enjoyed life on earth from the very beginning. As they lived in communities, the simple clothes they produced were assorted with gravitational jewels like hanging earrings and chains made of heavy stones or metals. They also started to sing, play music and dance. Children started “to jump up with joy.” In this way, they unconsciously praised their short liberation from gravity. Most of the individual and collective sports developed along the history of mankind like skiing, skating, swimming, all types of jumps and those involving different kinds of balls as well, are based on gravity. It is interesting to notice that some sports are only for men, others only for women while there are also some only for young people and many for all ages. For instance, walking on a stretched chord at a great height is only for boys while the pirouette on skates is mainly for girls. This is because subtle inertia should be also taken into account beside gravity.

Unfortunately, the happiness of ancient people on earth did not last long. Life was continuously shadowed by isolated and collective crimes committed in endless fights and wars. No wonder, since even the legendary Oedipus was a killer. Two centuries before the Christian Era started the Roman playwright Titus Maccius Plautus indignantly wrote that ***Homo, homini lupus est***. That assertion stirred *pro* and *con* comments that extended until the twentieth century. Sigmund Freud, for instance, agreed with Plautus’ assertion, but many others did not. Four hundred years ago, more exactly in 1601, in a cruel case of murder, Shakespeare took a firm attitude by stating that ***Something is rotten in the state of Denmark!*** [*Hamlet*, Act I, Scene IV]. Often mentioned, that assertion was tacitly accepted by history, yet without reducing human aggressiveness. After the Industrial Revolution, identified by Stephen Hawking in England around the year 1750, the world population started to increase dramatically while inter-human conflicts deepened. The controversial nature of human being and its cruel aggressiveness gradually came out to surface and intensified. At the same time, great technological achievements were accomplished during the subsequent three centuries. They radically raised the living conditions of some places and their people while other regions remained in poverty. The twentieth century answered the vital question as famous as ***Quo Vadis?*** with two World Wars that have totally changed the planet’s pattern of living [Sienkiewicz, 1895]. For instance, the nineteenth century produced electric lighting while the twentieth century produced artificial intelligence. In spite of such technological achievements, nowadays, still at the beginning of the twenty-first century, people live with confused ideals and hopes. Apparently supported by different advanced technologies, they look like are running hurriedly towards indefinite directions, as they have lost their compasses. Unhappily, this agony has extended over some school-children communities during the last two decades.

In this sad and tense climate, media announced several times during the last year 2017 that *Artificial Intelligence* is threatening to destroy human society and only emigration on another planet might become a saving solution. Now, at the beginning of the new year 2018, Japanese theoretical physicist and futurist Michio Kaku believes that humans will make contact with alien civilization even this century (Fig 1.1). He expects they will be largely peaceful unlike robots, which pose a greater threat to humanity.



Figure 1.1. Dr. Michio Kaku.

In these conditions there is no wonder why nowadays some humans behave like orphans, ***without mothers and without fathers***. Why should mankind face such crazy threats? Why the confusion between culture and technology? Why so much hate and fear? Where is the fault? In what lies the cause of the long lasting intra-specific intolerance? Why such a barbarian attitude against the environment that in fact feeds the humans [Al Gore, 1992, 2006]? Is there an intrusion of a virus from the outer space? Or is there simply an internal body trouble, and the human confrères are so busy with their own business or other planet affairs, that have lost sight of it? No wonder that there are so many questions as long as the one of Julius Caesar “E tu, Brute?”, dated on the 15th March 44 BC, remained without any answer 2062 years later (Fig. 1.2).



Figure 1.2. *Death of Caesar* by Vincenzo Camuccini.

Any attempt to answer the above questions seems like a hat too big for one’s head. Nevertheless, this paper assumes the task to carry out its own investigations so far as to the evil’s roots. Only by knowing the true cause of that evil one can speak about the future of *homo gravitas*.

2. Physics of gravity

Stephen Hawking used his authority and published a book about the life and work of five giants of physics and astronomy [Hawking, 2002]. It seems that at that date he still believed in the imminent unification of the four forces of universe, namely in the so called Grand Unification Theory, a theory that unifies the electromagnetic and strong and weak forces with the force of gravity. In order to enlarge the span of time covered by the paper, three of their precursors were included below, in Hawking’s list.

Thales of Miletus (624-546 BC): Pre-Socrates Greek philosopher, and as astronomer Thales predicted the solar eclipse of May 28, 585 BC. Thales also described the position of Ursa Minor, and thought that the constellation might be useful as a guide for navigation at sea. He calculated the duration of the year and the timings of the equinoxes and solstices. He is additionally attributed with

the first observation of the Hyades and with calculating the position of the Pleiades. Heraclitus of Ephesus (535-475 BC): Pre-Socrates Greek philosopher famous for his saying "No human ever steps in the same river twice". This ever-present change of universe, in a continuous, circular and eternal motion, is the fundamental essence of the universe. Plato (428-348 BC) and Aristotle (384-322) supported Heraclitus philosophy while Publius Ovidius Naso (43BC-17AD), exiled by the Emperor Augustus at Tomis, adopted it under the form "*Omnia mutantur, nihil interit*" by adding the influence of evolution. Ovidius also believed in the continuity of the soul after death. Simplicius of Cilicia (490-560), a follower of Heraclitus, expressed his saying into Greek under the compressed form "Panta Rhei" meaning "everything flows." Finally, in the eighteenth century, Antoine Laurent de Lavoisier (1743-1794), was among a score of scientists who proved by experiments, independently of each other, the law of mass conservation "Nothing is lost, nothing is created, everything is transformed."

Archimedes of Syracuse, Sicily (287 – 212 BC): A genius in mathematics and physics, educated at Euclid's School in Alexandria, Egypt, he reduced the force of gravity with the aid of the inclined plan, invented the lever and the pulley for raising weights then discovered the law of buoyancy by exclaiming "Evrika", meaning "I have found it!" in Greek.

Nicolaus Copernicus (1473-1543): In *On the Revolution of Heavenly Spheres* he formulated the heliocentric model of the universe that placed the sun at its center and thus replaced the former belief in geocentrism.

Galileo Galilei (1564-1642): In *Dialogues Concerning Two Sciences* he studied gravity and free fall, the principle of relativity, inertia, and also worked in applied science and technology. He used the lunette for the scientific observations of celestial objects like the phases of Venus and Saturn's rings, and the discovery of the four largest satellites of Jupiter. The *Two New Sciences* were kinematics and strength of materials.

Johannes Kepler (1571-1630): *Harmony of the World*. Book Five. Harmony means a periodical motion with a constant period of time. Kepler described his new astronomy as "celestial physics" by treating astronomy as part of a universal mathematical physics.

Sir Isaac Newton (1643-1727): *Mathematical Principles of Natural Philosophy*. With an inspiration of genius Newton has discretized the matter up to the point mass. It is a physical body without dimensions, but with a finite mass. In 1686 Newton has established the three basic laws of motion for his material point: 1) inertia, 2) action and 3) balance. Then, for the same point mass, he formulated the law of universal gravity or mutual attraction. In 1783 Charles-Augustin de Coulomb extended the law over electricity.

Albert Einstein (1879-1955): *The Principle of Relativity*. It is used when there is a need for extreme precision, or when dealing with very strong gravitational fields, such as those found near extremely massive and dense objects, or at very large distances as those in the outer space. In 1905 Albert Einstein stated that matter is nothing else but a form of energy.

Stephen W. Hawking (1942-2018): His books about universe and himself enchanted the whole world [Hawking, 1988, 1996, 2001, 2013]. In his book *The Theory of Everything, the origin and fate of the universe*, he confessed that his theories are based on Edwin Hubble's 1929 physical

observation that the universe is expanding, and these are facts not imagination. In the same book he mentioned the old paradox: *Can God make a stone so heavy that He can't lift it?* Since St. Augustine pointed out the fallacy of that paradox Hawking concluded that time is a property only of the universe that God created. Finally, Hawking expressed his sadness when he found out that the four forces of universe could not be unified [Hawking, 2005].

The works of the above scientists were related to one more or less simplified model of the universe. According to a holistic concept, the whole universe is an organic unity, like a living body. In it nothing is isolated, all is connected. Whatever from far away is connected to that which is near, nothing is separate. Each one is connected to the whole, and each one affects the other all the time, being also affected by the other. Life is interconnected too. In that universe nothing is big or small, everything is one organic unity [Osho, 1971].

3. Philosophy of gravity

In contrast with physics, where the experimental proofs are compulsory, philosophy is based only on logic, offering a much larger field of motion. However, logic is deceptive: it is very easy to be caught in a pitfall, but it worth to try despite the great risk. Philosophy detains a vast thesaurus of data obtained rather by feelings than by thinking in ancient times, when all the human senses worked at their full capacity in virtue of their natural instincts of conservation. What today is called genius is nothing else but an atavism occurring out of the blue by temporarily activating some of the ancestral senses. Like any accident, any genius is not predictable and has its own limits.

Egyptian philosophy. Human being is composed of two parts, body and soul, but the soul has two distinct components. In addition, the name of the body and the shadow projected by the sun are considered. Therefore, in the end there are five so called essential elements:

- 1) The physical body called *Akh* which is unique to each individual. By ageing the body changes, and death is the last change.
- 2) The soul, that living soul that returns to live with the family, is called *Ba* and defines human feelings, personal identity or personality, and personal divine energy. Only gods and humans have a *Ba*. In the afterlife the *Ba* is imagistically represented by a bird with a human head.
- 3) The mind or the soul that flew off to live after life, called *Ka* also the subtle body, defines the human character (ka-racter) and charisma (ka-risma), as well as the self, consciousness, the behaviour reflecting who you are, your action, power and quality of life. In the afterlife the *Ka* is supposed to be a protecting genius and imagistically it is represented by the two up right-arms, in right angle, on the vertical direction of gravity. The ability of the soul *Ba* to hover outside the physical body *Akh*, via the subtle body *Ka*, in astral travels or projections, was used by the ancient Egyptians as a proof of their concepts.
- 4) The body's name *Ren* used for preserving the soul *Ba* and mind *Ka* for not getting lost.
- 5) The shadow *Shent*, as the body's guard, was considered very powerful.

Ra, the god of the sun, was represented as a human body with the head of a falcon and the sun-disk inside a cobra resting on his head. All forms of live were created by *Ra*, from his tears and sweat, human included as "his cattle." Thus the Egyptians replaced their lack of identity by adopting different beings that lived close to the human environment.

Oriental philosophy. It is already obvious that all philosophies of the world were created by humans in order to help them find their own identities. For centuries, those large communities of people living in countries like Persia, India, China and Japan, for instance, searched everywhere, in themselves, in their environment and even in the whole universe to find a proof of or a link to their identities. Prominent philosophers like Zarathustra (628-551 BC), Lao Tzu or Tao (unknown-531 BC), Gautama Buddha (563/480-483/400 BC), Mahavira (599/497-527/425 BC), Chuang Tzu or Zhuangzi (about 350 BC), Seng Zhao (384-414), Sekito Kisen (700-790) and Ma Tzu (709-788) were only the few who devoted their lives to find at least a way towards that mysterious identity. Bodhidharma was an Indian Buddhist monk who lived in the 5th century AD and is supposed to be the founder of Chan Buddhism in China, that later became Zen in Japan. Osho pointed out that Zen has nothing to do with the mind and is neither a philosophy, nor a religion. "The greatest thing that Zen has brought into the world is freedom from oneself" [Osho, 2010]. Freedom is great indeed, but freedom does not replace one's own identity.

Pythagoras of Samos (570-495 BC). Ionian Greek philosopher identified with metamorphosis, the transmigration after death of the immortal souls into new bodies. He also created the doctrine of *musica universalis*, which holds that the planets move in space according to harmonic laws and thus resonate to produce inaudible symphonies of music.

Plato (428-348 BC). Greek philosopher who discovered "the mirror effect." According to Plato the truth does exist only in the reflected images of bodies [Plato, 1994]. By mirroring all bodies, without any exception, lose their weights and thus their gravitational proprieties of mutual attraction disappear. In the case of humans, by mirroring their images also lose their own minds and become free of mind control.

Paracelsus, Theophrastus von Hohenheim (1494-1541). Swiss physician who believed that sickness and health in the body relied upon the harmony of humans with their universe. As a result of this hermetical idea of harmony, the universe as macrocosms is represented in every human as a microcosm. The applications of this concept were at that time amazing.

B.P.Hasdeu (1834-1907). Romanian philosopher who was physically disconnected from his young daughter by her death and tried an astral reconnection spiritually [Hasdeu, 1892]. He was overwhelmed by a magical intuition of the world and history. Hasdeu believed he could 'see' the origins, the beginnings, those abyssal moments in which peoples were born, myths were created, and the historical consciousness was first illuminated. Distances disappear in this romantic vision, a vision which concentrates space, and creates a universe of invisible harmonies and symbols [Eliade, 1988].

Mihai Eminescu (1850-1889). Romanian poet and philosopher of genius who wrote the longest poem of love in the world entitled "The Evening Star." All his poetry was ardously devoted to the search the human identity. In his fantastic tales like *Archaeus* he advanced the thesis of the human species' eternal existence. His thesis was supported by the metaphysics of the migration of the soul according to the laws of metempsychosis [Eminescu, 1981].

Frederic Nietzsche (1844-1900). German philosopher, contemporary with Mihai Eminescu, was selected on this short list for his special concepts on laughing and dance. Laughing, not ordinarily and noisily, but magically, beyond oneself is the right way to enjoy life.

Also, life is worth to be enjoyed by dance as well. Like in the painting by Henri Matisse dated 1909 (Fig. 3.1). By dancing again beyond oneself one again is freed from the power and control of gravity. In this way the human identity, following some invisible astral ties, rises to the level of the universe, in order to fully integrate into it. Nietzsche understood very well for his time that only humans are able of such performances, as none of the other animal or vegetal beings [Nietzsche, 1961].



Figure 3.1. 'La Danse' by Matisse.

Vasile Voiculescu (1884-1963) Romanian poet and philosopher who, between 1954 and 1958, continued the 154 Sonnets written by William Shakespeare with other 30 new ones, collected in a book entitled "A Love's Sonnets". He also wrote an essay against human autocracy, "The revolt of beasts". The spell of his fairy tales reveals the ancestral and cosmic mysteries of the human condition. Voiculescu's philosophical vision is captivating in its spiritual integrity [Voiculescu, 1981].

Mircea Eliade (1907-1986) Romanian philosopher who often used Heraclitus' dictum "*coincidentia oppositorum*", wrote that human motion during dancing coincides with the harmonic motions of cosmic objects. Therefore, by dancing humans disclose their belonging to cosmos through body and soul [Eliade, 1932]. Ancient images and symbols from extra-European cultures are of great cognitive values [Eliade, 1952]. Many old truths are still cryptically hidden behind some myths, dreams or mysteries, and not yet rightly understood [Eliade, 1957]. All initiation rites and symbols have astral connections in the mysteries of birth and rebirth [Eliade, 1958]. His fantastic-occult short story *Gypsies* contains some of the fundamental data of modern human's existence. Alone, helpless, estranged from his fellow-men and from his own self, he is dragged against his will into the tragic Sisyphus chase for definitely recapturing his lost mythical ego [Eliade, 1959]. The chronological succession and the circumstantial evolution of Eliade's philosophical concepts are also useful for the understanding of his scientific works [Eliade, 1978, 1988].

The humans' interest for their identity was obsessive along history because identity means the recognition as belonging to the universe. Lack of identity creates confusion, depression, fear, loneliness or other mind disturbances. That is why gravity was successfully used as a reference or support in the whole search for solutions.

4. Lessons from Ancient Legends

4.1 The Legend of Adam and Eve

It is a well-known biblical legend regarding the act of creation. Its action is developed along of five distinct steps: 1) The creation of the two humans and their connection to God's Garden. 2) The sin committed by the two through disobe

dience.3) God's anger.4) Punishment by their disconnection from God's Garden.5)Their expulsion and curse.



Figure 4.1. Michelangelo's painting on the ceiling of the Sistine Chapel in Rome, 1508–1512.

The painting is known under the name of *The Creation*, but the connection has not occurred yet. With his well-known skillfulness Michelangelo allowed an equal chance for the expulsion-related interpretation (Fig. 4.1).

4.2 The Legend of the Babel Tower.

This, too, is a well-known biblical legend regarding the people spread out over the earth and wandering after Noah's Flood. Its action is developed along five distinct steps: 1) The creation of a place where people can live together and connected to God by their faith. 2) The sin committed by the crowd through disobedience, i.e. raised the Tower too high. 3) God's anger. 4) Punishment by disconnecting the people from God's grace and by forbidding them to occupy that place. 5) The expulsion of the people away and curse to confound their speech (Fig. 4.2).



Figure 4.2. Tower of Babel, by Bruegel, c.1563.

4.3 The Legend of Oedipus



Figure 4.3. Oedipus with the Greek Sphinx.

The Greek Sphinx asked Oedipus a riddle: 'What walks in four legs, then two legs, then three legs?' The Sphinx would have killed him if he had not been able to answer it, but he correctly interpreted it as a riddle concerning the ages of man. A baby walks in four legs, grows up to walk in two legs, until so old that a third leg, or walking stick, is needed. By that answer Oedipus communicated to mankind that in human life gravity plays the role of the stick providing the vertical stability. At that very moment *homo erectus* became *homo gravitas* and it has still preserved this Latin appellation until now (Fig. 4.3)

4.4 The Legend of Narcissus

In Greek Mythology Narcissus was a young hunter known for his beauty. After seeing his own image reflected in the water of a pool he apparently fell in love with it. Unable to leave that image of his reflection Narcissus lost his will to live and committed suicide. Plato claimed that reality and truth could only be seen by mirroring. In these conditions the image seen by Narcissus was that of a body free of gravity and also free of the mind [Sofronie, 2005b]. He committed suicide not for the love of himself or of someone else, but for fear because he lost his mind (Fig. 4.4).



Figure 4.4. Narcissus.

4.5 The Legend of Diogenes

Diogenes was a Greek philosopher (412-323 BC), contemporary with Aristotle (384-322 BC) and Alexander the Great (356-323 BC). Diogenes was a good looking man in his youth. He loved his body and praised it for its internal and external virtues. When Diogenes got old he used to carry a lit lamp during the daytime paradoxically claiming he was searching for light (Figs. 4.5 and 4.6).



Figure 4.5. The beauty of human body.

The first two legends, the Creation and the Tower of Babel, are identical in meaning. Only the setting is different. It is very likely that they were written by the same story teller.



Figure 4.6. The light cannot be discovered by itself.

Their first message is that there are some astral connections between the humans and the cosmic bodies, and they are of real physical not nature. Their second message says that the consequences are very bad for people when, for certain reasons, some disconnections occur.

The two messages were transmitted by the Holy Bible in due time; however, they were either not understood or, more likely, were carefully hidden and kept distant from human understanding. The Legend of Oedipus states that the gravity flows genetically along with blood in the human veins, the Legend of Narcissus brings the miracle of mirroring effects, while the Legend of Diogenes is overwhelming with its obvious truths.

4.6. The Legend of the Holy Virgin with the Child

In the ecclesiastic culture the Holy Mary or Virgin with the Child has the fame of miracle performer. The aura around their heads confirms the existence of the field of energy. The Nativity Church in Bethlehem, Palestine, is daily visited by thousands of believers (Fig. 4.7). The Mount Athos in Greece, inhabited in exclusivity by monasteries, was sanctified and extra-named the Garden of the Holy Mary.



Figure 4.7. Milk Grotto Church, Bethlehem.



Figure 4.8. Byzantine Painting.

There are many versions of the Nativity presented as icons and paintings. Some of the painters, like the Byzantine ones, felt that the basic idea of their creations about normality in maternity should be transmitted to their onlookers (Fig. 4.8)

Paradoxically, if a believer or a monk or a priest, anywhere in the Christian world, is kindly asked to nominate a single miracle really performed by the Holy Virgin with the Child their answer is invariably the same: "Oh, many." In spite of this confused reply the Legend bears one of the most important lessons about maternity ever addressed to mankind throughout history, a lesson that has unfortunately been disregarded or misunderstood for a long time. Immediately after birth, mother and child should keep in touch or as close as possible. The Legend also makes distinction between culture and technology. The two words are by far not synonymously.

The Bible is a cryptic book, that is why it is called holy. It was not written to be read, but to be decrypted by the initiated ones only. The ordinary believers are not able to understand the holy texts. The lessons of biblical legends are also strongly cryptic, but fascinating through their high level of knowledge. However, once decrypted all lessons are logic and realistic, very easy to be understood.

It is amazing how ancient people reached such high levels of knowledge. It looks like the legends confirm the assumptions that sometimes, before 1,500 BC, an advanced culture of the highest degree was reached by those humans who lived on the earth. Buckminster Fuller has evaluated that glorious time around to the years 7,000 BC, when also some genetic mutations were performed.

5. Building with gravity

5.1 Megalithic Cultures

Boulders of natural stones accidentally spread on lands as, for instance, after the last glaciation, landslides or earthquakes.



Figure 5.1. Menhirs in Carnac, Bretagne.



Figure 5.2. Dolmen in Bretagne, France.



Figure 5.3. Cromlech in Stonehenge, Great Britain.

They were collected by local people and used for three types of constructions without any processing: 1) Standing stones, isolated or arranged in alignments, called *Menhirs* (Fig. 5.1), 2) Combinations of three stones, two vertical supporting the third one laid horizontally on their tops, called *Dolmen* (Fig. 5.2), and 3) Circular arrangements of stones in a so called *Cromlech* (Fig. 5.3).

Vestiges of megalithic constructions do still exist on all continents. In Europe the most known megaliths were built in the Neolithic period and have lasted in France since 4500-3300 BC and in Great Britain since 3000-2000 BC. The pre-Celtic people who erected them used ingenious tools like those discovered by Archimedes much later. All these buildings are vertically oriented, in the direction of gravity, and the content of gravity is high owing to their mass concentration.

5.2 The Great Pyramid of Giza

This pyramidal megalith was erected in 20 years and completed in 2560 BC by the pharaoh Khufu or Cheops as his funeral monument. The pentahedral construction, with four vertical plans of symmetry and a squared base of 227 m, had initially a height of 146 m. Its four triangular facets were inclined with $52^{\circ}52'$ in order to achieve the same compression stresses, under its own weight, in all horizontal cross-sections (Fig. 5.4).



Figure 5.4. The Sphinx and Great Pyramid of Giza.

The nearby Sphinx might have been carved into the natural rock existing on the site before the year 10,000 BC. It is a memorial devoted to the year 14,451 BC when it is supposed that the human being became conscious [Black, 2007].

5.3 The Babylon Tower

Built as a ziggurat with seven levels, in its first version the Tower was erected during the reign of Hammurabi the

Great (1792-1750 BC). After severe damage, the Tower was rebuilt by Nabucodonosor (1125-1103 BC). Nabucodonosor the Second (605-562 BC) raised the Tower to its highest fame beside the *Hanging Gardens*. About the year 460 BC Herodotus (485-425 BC) visited the Tower that was a citadel of astrology and he mentioned that its height was equal with the side of its basic square. Alexander the Great (356-323 BC) was also impressed by the former beauty of the Tower and in the year 324 BC he decided to demolish it in order to fully reconstruct it. Unfortunately, next year the mosquito-carrying malaria disease opposed and suddenly both glories disappeared forever.

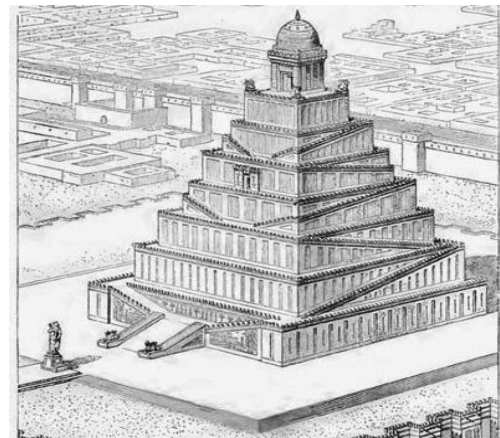


Figure 5.5. Model of Babel Tower.

In 1898, 2221 years after the fall of Babylon, the German architect Robert Koldewey (1855-1925) discovered the imprint of the former Tower of Babylon on the left bank of the Euphrates River. The two sides of the Tower base were reconstituted to about 90x90 m. The great surprise came from the foundation of the Tower. Paradoxically, the masonry of the foundation was made into a weak and oozy soil with adobe which are clay units simply dried by the sun.

Clay bricks, backed in ovens and sealed with Nabuconodosor name, were used only for the masonry of the superstructure [Schneider, 1966]. That fault in the foundation explains the severe damage that occurred during its fifteen centuries' service [Sofronie, 2012b].

5.4 The Eiffel Tower

The tower was designed by the team consisting of Émile Nougier, Maurice Koechlin and Stephen Sauvestre, as employed by the Eiffel Company in Paris. Gustave Eiffel liked the project and bought it. The construction was erected in two years only. Officially, the Tower was devoted to the centenary of French Revolution in 1789, and its basic arches were aimed to be used as the main entrance to the Universal Exhibition in Paris 1889.

In fact, the Tower is a memorial devoted to gravity. At the date of its construction the highest construction in the world was the Great Pyramid in Giza with its about 150 m. Eiffel's ambition was to double that height so the Tower reached 300 m in 1889. Nevertheless, the beauty of the Tower lies in its shape representing a solid-rigid bar under equal stresses to centric compression in the gravitational field. The Great Pyramid was built according to the same principle but the difference of the shapes is made by the physical proprieties of stone and steel [Sofronie, 1981].



Figure 5.6. Eiffel Tower in Paris.

5.5 The Era of Tall Buildings

The history of tall buildings started with a fire that occurred on the evening of Sunday, the 8th October 1871, in a cottage on Dekoven Street, Chicago. The fire extended and in three days 650 hectares of land became available for reconstruction. The first representative tall building, with 102 stories and 380 m in height, was built in New York City in 1931. In 2017 it was the 5th tallest ever completed in the USA and the 28th tallest in the world (Fig. 5.7)



Figure 5.7. Empire State Building, New York.



Figure 5.8. Burj Khalifa, Dubai.

At present, in the world there are eight skyscrapers that exceed 500 m, the highest one being Burj Khalifa, 828 m tall, completed in Dubai in 2010 (Fig. 5.8).

5.6 Projects

A key stone event in the history of skyscrapers took place in 1972. On 21-26 August that year, ASCE and IABSE organized the First International Conference on Planning and Design of Tall Buildings at Lehigh University, Bethlehem, Pennsylvania. Over 800 participants from all over the world attended the Conference where Leslie E. Robertson, renowned as an outstanding personality in the field, was Chairman of the Technical Committee 3, Structural Systems. The project of coupling the skyscrapers with geodetic suspension foot bridges was presented among the new ideas in the plenary session (Fig. 5.9).

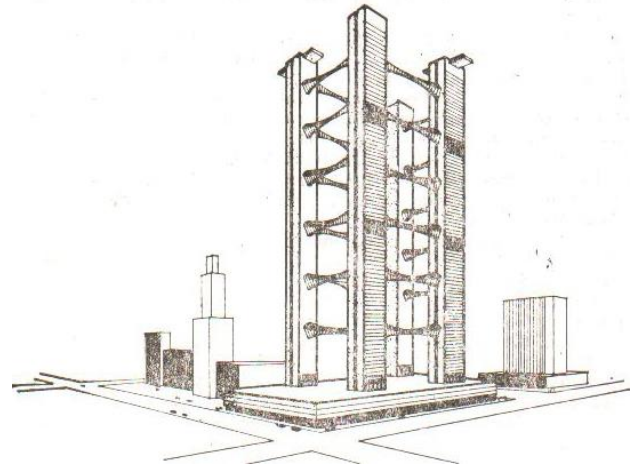


Figure 5.9. Tall Buildings Elastically Coupled.



Figure 5.10. NK Sky Tower, Tokyo.

This combination of vertical and horizontal spaces eliminates the solitude of the towers, and also increases the structural safety of the ensemble to the lateral actions of EQs and winds [Sofronie, 1972, 1975, 1977, 1984]. From his position of Chief Engineer of the World Trade Center in New York, Leslie E. Robertson took the opportunity to present the construction site of the Twin Towers to the Conference attendants. By fate, after 45 years later, he is involved in a new adventure again, this time in the project of the Tokyo Sky Tower which is targeting a one-mile height (Fig. 5.10)

5.7 Leslie E. Robertson

In 2017, on the eve of his ninety anniversary, Leslie Earl Robertson published a book-album which mirrors a selection of his main creative designs. He received solid support, not only professional but also equally philosophical and emotional, from his distinguished wife, Saw-Teen See. Leslie E. Robertson is fascinating not only in his innocence, but also

thanks to his open heart. He has always shared his bright ideas with colleagues and friends. Even today, I. M. Pei remains one of his good friends. He understands that the act of creation is, however, strictly individual, and he knows how to feel the basic ideas of his design projects beyond himself, as Nietzsche once quoted. Les' book is a treasure of educational value and inspiration too for the coming generations of designers, architects and engineers (Fig. 5.11) [Robertson, 2017].



Figure 5.11. The book.

There is nothing wrong in praising gravity by building high. In this way humans confirm their gravitational nature. Gravity is the force of life and it brings joy. The advanced technology specially created to reach such heights, without disturbing the environment, is worth of all admiration. The Legend of the Babel Tower has nothing to do with the Tower itself. The lesson of the Legend focuses only on the consequences created by human disconnection from their astral links.

6. Lessons from gravitational sculpture

Sculpture is a three dimensional art that brings real, touchable, proofs of some subtle realities. That is why sculpture is more concentrated and therefore more convincing than words. Brancusi is well known for his gravitational sculpture. He was a feeler and his genius came to him through the tips of his fingers as atavistic senses [Sofronie, 2001, 2003a, b, c]

6.1 The Wisdom of the Earth

Brancusi gave the name of “The Wisdom of the Earth” to his little statue carved in 1907, aware that the body is made of earthen soil according to the Bible, of which probably Brancusi was aware in his childhood. The question is where does the quality of wisdom come from? It is widely known now that the body is the most sophisticated biological system that has ever existed. It is able to move in space with six degrees of freedom and it is devoted to the production and consumption of both kinds of energy, internal and cosmic.

It is due to work 24 out 24 hours without fault at its highest capacity. To govern such a highly reliable device like the human body in its total wholeness, from the soles to head, a true native wisdom is necessary. Therefore, the body should consist of two parts, the physical body which is self-generating but mortal, and the soul or astral body which is immortal. The adjective astral, adopted in this paper, expresses the gravitational connection of the physical body with the universe as of the part with its whole. The astral body is also responsible for the emotional and creative life of the body, and therefore it has close ties with the heart. It is the

astral body which hosts the five senses that confer its qualities of feeler to the physical body. However, the astral body has nothing to do with time since time does not exist for it. Physical and astral bodies are perfectly integrated into each other. They simultaneously appear in this world by birth. They remain synchronized along the whole lifespan by always living the instant, thus disregarding both the past and the future. Finally, they depart forever only by the death of the physical body. That is why “The Wisdom of the Body” appears as synonymous with “The Wisdom of the Earth”. This extension of meaning allows us to imagine Brancusi's statue as the earth, a globe carried by a female body and representing a sphinx (Fig. 6.1) [Sofronie, 2015].

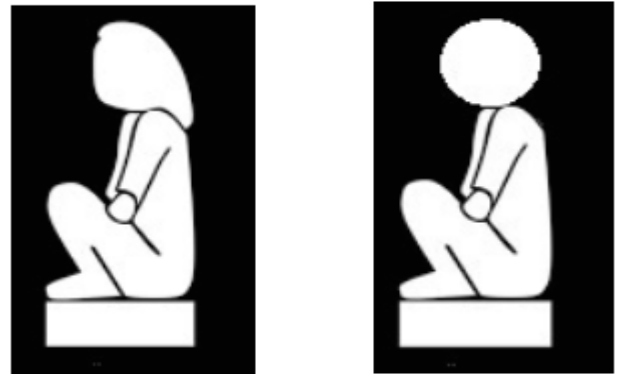


Figure 6.1. ‘The wisdom of the earth and of the body’.

The mind is also a gravitational component of the physical body; it is subtle and immortal, but essentially different from the astral body. It counts time, but does not have any of those five senses. The mind installs in the brain of the head only after the birth of the body, like a “cosmic seed”, and gradually develops along a conventional period of 15 years when it reaches the lower threshold of its maturity. Usually, the full maturity occurs at the age of 40-50 years. The upward trend of the mind can continue or not, depending on the biological structure of the body. The mind leaves the brain, as its host, when the body dies, or even earlier. The mind is not able to live the instant, it is able to acquire only the past and the future, acting as a complementary component of the physical body, but not always in full agreement with it. Its function is to think without feeling, in an intelligent manner, by processing the information from the available data base stored in the brain. According to Osho (1931-1990) the mind has created an identity of its own, called ego. It is different from the existing one, that of the body and which is the true identity. The confusion created by the two identities still persists with serious consequences and even irreconcilable conflicts. Osho has compared the mind with a computing program by using the human brain as a computer device [Osho, 2003]. The problem lies in the individual brains which are necessarily very different from each other. They are not connected to an earthen network, so much the less to a cosmic one.

Lots of incoherencies result from the lack of such connections. Perhaps this inconvenience will be overpassed owing to the evolution of the human species. In the existing literature human consciousness is associated with the mind. Even the historical date of acquiring conscious is suggested to be in the year 11,451 BC [Black, 2007]. Since that very year on, considered the year zero, time started to be counted. In these conditions, at an age of less than 14,000 years, human society does not seem old at all.

6.2 The Endless Column

It was already written that three principle were used in achieving the Column: 1) Anthropomorphism, by circumscribing it to the shape of the soldier's/peasant's coffin; 2) Idiormorphism, by shaping the Column according to the Tower of Babel at a reduced scale; (Fig. 6.2); 3) Automorphism, the topological endlessness of the Column is obtained by repeated congruencies or mirroring of decahedron module (Fig. 6.3). This absolute performance of the mind demonstrates that the astral disconnections displayed by the Biblical Legend of Babel Tower can be intelligently avoided. That is why the Column was called by author the Wisdom of the Mind [2004, 2005b, 2006, 2008, 2012a].

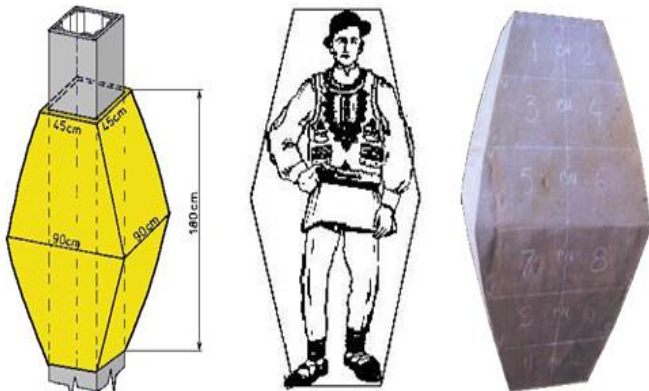


Figure 6.2. Module of the Column: design, coffin and photo.

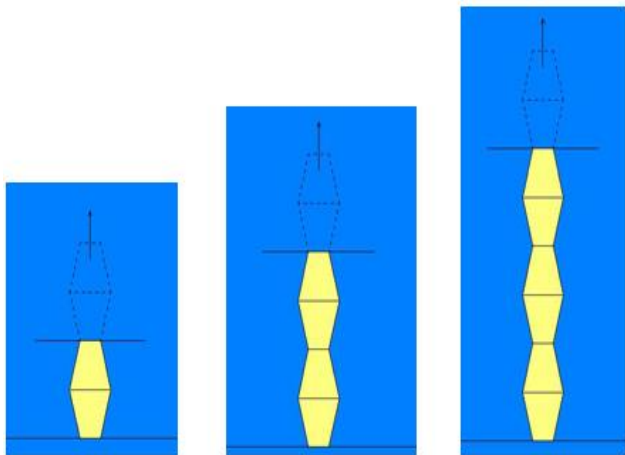


Figure 6.3. Successive congruencies.

The Column received a strong foundation with a depth of 5.00 m directly from Brancusi himself. This means that ratio between the foundation depth and the Column height assumed the perfect value of 1:6. In addition, an elastic model at a reduced scale of the Column was tested on the shaking table in the Laboratory of Seismic Engineering, INCERC Iasi, Romania. In the field of seismic actions recommended by the

Romanian Code of seismic protection the model recorded a stable behaviour. Other two models of the Column, one elastic with 6DOF and another rigid with 3DOF, were tested in the wind tunnel of the Yokohama National University in Japan. The behaviour of the models was not only stable, but also displayed the rare phenomenon of aero-elastic indifference. This means that Column is not only endless, but also everlasting [Yamada, 2005; Sofronie, 2013].

6.3 The Sanctuary of Brancusi at Targu Jiu

As an homage to the ephemeral, linear body, with a beginning and with an end, Brancusi created the Alignments of the Stools, consisting in 2x5x3=30 pieces shaped like squared clepsydrae, which he located in his Sanctuary at Targu Jiu, in 1937-38 (Fig. 6.4).



Figure 6.4. The Alignment of Stools with the Gate of the Kiss in the back.

As an homage to the eternal, circular mind, without a beginning and without an end, Brancusi created the Table of Silence, consisting in a round table and twelve stools shaped like circular clepsydrae, which he located in his Sanctuary at Targu Jiu, in 1937-38 (Fig. 6.5)



Figure 6.5. The Table of Silence.

The late architect Silvia Paun ascribed a megalithic stylization to that Memorial of modern art.



Figure 6.6. Megalithic stylization of Brancusi Sanctuary at Targu Jiu.

She identified the Table of Silence and its twelve Stools with a *Cromlech* or a Circular Temple of *Menhirs*, the Alignment of Stools with a horizontally extended Linear Temple of *Menhirs*, The Gate of the Kiss with a *Dolmen*, and The Endless Column with a vertically extended Linear Temple of *Menhirs* (Fig.6.6).

Once these functions were recognized as such, the Sanctuary at Targu Jiu was integrated with other vestiges of World Megalithic Cultures like Carnac in France, Stonehenge in Great Britain and Sarmizegetusa in Romania.

It was for the first time in History when modern sculpture at such large scale reflected so faithfully the ancient art expressed by stone not only in shape but also, and mainly, in the meaning of their messages [Paun, 2001]

Brancusi's sculpture confirms the tripartite structure of the Egyptian model adopted for the human body, namely the physical body, the astral body or soul and the mind. The little statue called the Wisdom of the Earth assigns real value to the qualities and resources of the body. It was definitely established that in the body-mind couple, the body is the host while the mind is the guest only. The intelligence of the mind cannot substitute the wisdom of the body, expressed by feelings and senses. The body-mind relations are only of reciprocal acceptance and tolerance due to of that double identity. It is of genetic origin and has no therapy. The endlessness of the Column is an attempt of the mind to demonstrate its superiority to the body. In fact, it is only a topological endlessness that means a virtual one.

7. Bipartite model

So far, *homo gravitas*, as the main inhabitant of the earth, has been presented from five different perspectives: scientific, cultural, esoteric, structural and sculptural. In its relation with the universe, regarded in its simplest form as composed by the globe and the sky, *homo gravitas* as an individual appears as a unit of its whole through which both evolution and revolution can take place.

In defining happiness, Thales of Miletus considered three conditions: a healthy body, a resourceful mind and a docile nature. That means a bipartite or binary model based on the body-mind couple. Much later the Roman satiric poet Decimus Iunius Juvenalis (55-140), anglicized as Juvenal, wrote his Satire X, and the dictum *Mens sana in corpore sano* was adopted from its first verse. This dictum has been the basic principle of all western educational systems for centuries.

Obviously, throughout history some criticism has been raised regarding the priority of the body or the mind like in the well-known paradox of the chicken and the egg (Fig. 7.1).

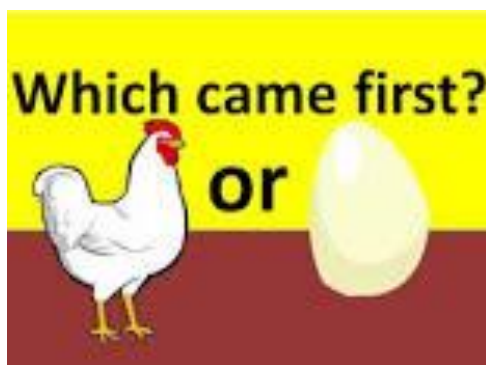


Figure 7.1. The paradox of chicken and egg.

Fortunately, the reply from philosophy came promptly. Logically, both alternatives are equally valid for purposes of

such a comparative analysis. In these conditions the following correspondence was identified between the two components of the body-mind model, two by two: the body and the earth are material, visible, touchable, self-generating, but ephemeral, while the mind and the sky are immaterial, invisible, untouchable, and eternal. Since the earth and the sky are two forms of the same cosmic energy, and not separated one of the other as they appear to human eyes, similarly the body and the mind are intimately integrated. For that reason, Osho has considered an advanced form of the body-mind model which he called the psycho-somatic model.

In the former paper about *homo gravitas* Osho's approach was used to assume the gravitational nature of the mind, in spite of the fact that the nature of gravity is still unknown. Even so, the above defined bipartite model does not support an analysis able to lead towards the expected answers from this paper. That is why the cardinal points of human life should be further analyzed.

8. Cardinal points

Human life is marked by three important dates conventionally called cardinal points because they are directly connected with the universe. They are so strongly controlled by universe that some turning events of life occur in a very short length of time, and nothing remains like before.

8.1 Conception

It is the beginning of human life on earth. Conception is extremely important because it means the perpetuation of the human species. Nature provides not only a major appealing measure for that purpose, but also high conditions for the act of conception to be safely completed. It cannot be externally influenced by anyone with any means in any way. Every soul chooses the time of its conception. Conception is like the morning of the day: it is an annunciation. The selection of the two winner seeds is made according to the precise laws of mathematical probability. The French mathematician Georges-Louis Leclerc, Comte de Buffon (1707-1788), was the one who formulated the first laws of probability. Proof is the amazing parity with which the two sexes, male and female, occur by conception. The date of conception is uncertain, but not casual. The ovule is fertilized by the spermatozoid only when the cosmic auspices are opportune. When, however, the date of conception is assumed, then the foetus' sex seems predictable by a biorhythmic analysis of mother's emotional graph. Then, after the connection to the hereditary chains of parents, a complex biological processes starts into mother's uterus and womb. Once immersed in the amniotic fluid the foetus also feels the influence of the moon. In the very moment of fecundation, the energy field of the foetus is also initiated. Its extensions and intensity also depends on the emotional state of the partners. Therefore, the conception is not a simple act of seeding. It contains an energetic component of highest value. In the foetal state are creating all the invisible energetic links of the embryo in such a way that the new-born to be able to immediately start an autonomous life. Additionally, parent state of love is extremely important. That is why in some communities it is traditional to ask for a public kiss as a confirmation of reciprocal love. This love, under its energy field, is further vitally necessary and works like a protective shield. The female body is perfectly endowed to successfully carry out that task without any external intervention or support. However, playing or listening to music and practising sport are highly recommended. The foetal state lasts until when

foetus reaches its maturity, usually between seven and nine months. According to Hindu Philosophy every child chooses to be born under certain constellation. Therefore, the fate of humans is decided by the cardinal point no. 1, that of conception, not later.

8.2 Birth

It is a revolutionary event decided and fully controlled by the universe, like according to a cosmic clock. Therefore, birth is neither spontaneous nor casual. Naturally, two worlds are changing in a rather short of time. Birth means to suddenly come out from dark to light.

In the ancient time the delivery took place by standing, with hands up, in the gravitational direction, without any assistance, as responsibility was exclusively assumed by the mother. Later, when assistance was gradually introduced, the delivery direction was also radically changed with 90 degrees, in the horizontal one. However, in the middle of the twentieth century, gravitational delivery was still currently practiced in the Far East. At about the same time, water-immersed delivery was successfully experienced in the West. The practice was not extended, probably due to the inconveniences created to the assistant personnel. With or without gravitational help, the motion of expulsion is governed by a conservation law of classical mechanics. The expulsion speed is amplified usually 20-25 times by the ratio between the mother's and the child's masses. So, generally speaking, life in the new world starts at high speed. In a short time, many biological processes should be rigorously completed. It is a great fight for survival from the new-born part, with many risks. The instinct of survival is much stronger than the instinct of self-defence. Any mistake from the part of the assisting personnel, even a very small one, may create irreparable consequences for the subsequent life of the new-born.

Nowadays, in most cases, birth takes place in accordingly fitted maternities. Naturally, the delivery of the new born is based on mother's labours under qualified supervision, and can last seconds or hours. If necessary, some external methods of support or intervention do exist. Once out, the umbilical cord is immediately cut off, and the new born, endowed with its own energy envelope, acquires the status of an independent body ready for the two tests, voice and weighing. The normal mass of the new born ranges between 2.5 and 4.0 kg, while women gain 12 to 16 kg during pregnancy in addition to their own, normal mass. Finally, the new born is put into a bed specially prepared for a well-deserved sleep. Similar rest is reserved for mother.

The date of birth is the primary criterion of identification for the new born, and it is much more important than the given name. It is a kind of „Independence Day.” The time of birth, sex, place, names and ages of parents are also fixed in the local memory of each human community. In ancient times, human life was often associated with cosmic objects because they moved harmonically, i.e. periodically at constant intervals of time. Stars rise and set like the sun, every 24 hours a day. Each child is born precisely under a certain sun on the sky and into a specific arrangement of stars in space. Life as a whole on the earth is affected primarily by the sun, but also by the movement of the stars.

Therefore, there came a time in history when to the date of birth the presence of one local cosmic object was also considered. In time, it was noticed that people born within the same periods of time display similar features or types of character. Since then, the recorded dates of birth were sorted

according to certain periods of time like months. In this way, Astrology was founded as a mathematical science and later much developed according to the data base of birth. Unfortunately, that highly advanced civilization disappeared. About 6,000 BC the Sumerians started to write the history of mankind with the astrological knowledge imported from India. More or less consciously, humans gradually became dependent by Astrology and implicitly by some cosmic objects. For instance, when he arrived in Babylon in 331 BC, Alexander the Great was accompanied by his personal astrologist.

Pythagoras discovered that all cosmic objects move periodically according to their own natural periods of time, and the oscillations they follow during their cosmic motion assume the same natural lengths of wave. In this way he discovered the principle of cosmic harmony. By gathering together and superposing the oscillations of all cosmic objects a kind of inaudible symphony resulted, which he called the harmony of the universe. Each new-born feels that cosmic music at birth, for some instants. Later, at maturity, those impulses will define the state of health of all people born at that very same instant. Therefore, the astrologic information is not personalized but only a type or basic model of health. Much later Paracelsus discovered the same approach to human health, but he regarded it from the inner perspective of the body. The inner universe or microcosmos of Paracelsus was identically built with Heraclitus' macrocosmic universe. Both universes were organic unities in which their parts are mutually interconnected, two by two. It looks like the astral universe and human's inner universe were proportionally mirrored in each other. Paracelsus called his universe the inner harmony. Both inventions are of great value, mainly for the comparative computerized studies.

Like conception, birth is also a very important event. Birth is indeed a cardinal point in human life. By birth the humans receive not only an earthen identity, but also a cosmic one.



Figure 8.1. Chinese lucky stars.

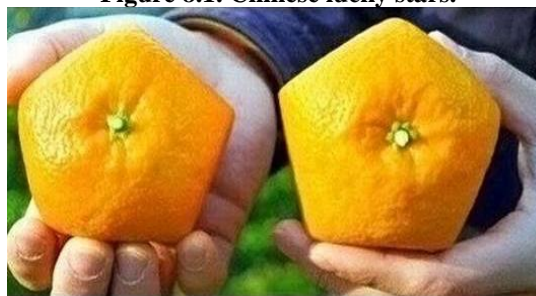


Figure 8.2. Recent Japanese lucky stars.

That is why the date of birth is carefully prepared in each community and especially celebrated with great joy according to local traditions. The ceremonies always include not only music and dance, but also allegories that invoke the human

links with the universe. In this way it is assumed that the new born will be fully integrated in real life [Eliade. 1952, 1957, 1958]. The date of birth remains as a reference event for the whole lifespan. The date is celebrated every year and is also considered in all public or private activities.

In countries like China and Japan, there is an old belief in the lucky star. It is a tradition to be grateful to one's lucky star for good health or success in all kinds of affairs (Fig. 8.1-2). In many other countries like Canada, Chile and New Zealand some traditions regarding the lucky star do exist. In Romanian culture the Lucky Star was called "the Nameless Star" and is unique for each person. Obviously, it is imagined that the selection is rigorously done like in the case of a bio-resonance phenomenon.

8.3 Death

In life, nothing is certain except death. Death is not going to happen in the end; it is already happening. It is a process. Just as life is a process, death is a process too. Life and death are both one process. We are dying every moment. It is a vital event as necessary as conception and birth. The eternal perpetuation of the cyclical life on the earth is ensured only by death. That is why where there is a beginning there should be also an end, since death is regarded as a natural phenomenon. It automatically occurs when the body ceases to produce the necessary energy for normal life, and its energy envelope also dies out simultaneously. Then, the mind leaves the body first and the soul does the same thing later. Death is an irreversible event, and the same life never comes back. Life flows downward like the waters of a river or it burns upwards like the flame of a candle.

In some countries there it is traditional to weigh the brain of some outstanding people after their death. For instance, the brain of the German mathematician Carl Friedrich Gauss was found to be 1,492 g. Present statistics mention 350-400 g for the mass of new-born brains, the maximum mass of 1,315 g is reached at 15 years old, and the adult human brain is about between 1,300 – 1,400 g, which means 2% of total human mass. This means that the capacity of the brain to absorb gravitational force is about 50 times lower than the capacity of the body.

The three cardinal points as described above cover the whole span of human life very well. The two extreme points, the beginning and the end, are beyond any interpretation; they occur according to the rigorous laws of biological life. Instead, some physical, biological and energetic events occur in the second cardinal point, that of birth, rather than natural phenomena. That is why they are kept under special attention and specialist assistance. Otherwise, unpredictable consequences might occur.

9. Tripartite model

Each individual human is a unit and part of the universe as its whole. Between them there are invisible and immaterial ties that provide their permanent connection. That is why a human being cannot be dismantled piece by piece, like a robot for instance, then each piece searched separately and mantled back at the end. It is impossible because its immaterial components, like mind, disappear irreversibly. Dismantling a human being means its wireless disconnection. That is why any model has a limited value to some analytical studies. The tripartite model adopted in this case was inspired by the Egyptian one and its three components: 1) the physical body, 2) the soul or astral body and 3) the mind, as they were already presented in chapter 6 for the Wisdom of the Body and the Wisdom of the Mind.

The physical body, as the only material component of the human body, is represented by its center of mass. It is a virtual point. By standing this center is located on the vertical axis of symmetry. In other postures the position of mass center changes. Since around the mass center all the energies of the physical body concentrate it is also called the core of the body. By virtue of the universal law of gravitation through this center the physical body is mutually connected with all the other bodies and astral objects. As long as Heraclitus' universe is equally endless in all the three directions of the space, the center of the physical body coincides with the center of the universe. It is a real privilege for human beings.

The physical body also has a spectrum of natural oscillations, which allows contacts with other oscillatory objects by the well-known phenomenon of resonance. In addition, the physical body is endowed with an energy envelope that is invisible to the eye, but is frequently represented in pictures like an aura. The physical body and its energy envelope are immersed into the cosmic energetic field [Rich, 2017].

The soul or astral body is immaterial and has a gravitational nature. Together with the physical body, but without the mind, the soul defines the identity of human being. It is an earthen and also an astral identity.

The mind, as stated before, is in fact the conscious mind. In a separate work by Osho, the mind has nine components: three types of mind, namely individual, collective and cosmic, with each of these types having three subdivisions: conscious, under-conscious and over-conscious one. This mind, with its nine components, is part of the universe and has a gravitational nature. It is the same for all humans and comes on the earth as a cosmic seed. The human brain is like the earthen soil, that is more or less fertile. It seems that the brain contains one of the most perishable matters of the body. That is why, in a conventional classification, the human brain can be of normal or standard maturity, overdeveloped and underdeveloped or immature. Poor maturity is practically of great inconvenience. In all three cases, once inserted in the brain, the mind becomes personalized, as a part of the human identity. Therefore, one cannot speak of mind by disregarding the quality of each individual brain. The non-homogeneous couple body-mind becomes a coherent entity only together.

With the aid of the above presented tripartite model and on the basis of the knowledge selected in the previous eight chapters, this paper tries to evaluate what really happens in the cardinal point of birthday. Why that Day of Independence has become so important and what are its consequences? The evaluation will be carried out from the perspective of general physics at an elementary level only, like mechanics, as a science of motion, and electro-magnetism, without any involvement of metaphysics, any kind of philosophies and medicine. In short, facts only. This paper does not blame artificial intelligence as long as the astral connections are not disturbed. On the contrary, its advanced level of knowledge reached so far is mostly appreciated. Finally, emigrating on other planets or receiving alien guests is out of any discussion. This paper only aims to answer the question why some people behave like "motherless and fatherless" children, as in the old Transylvanian saying, and also to disclose the identity of *homo astralis* as announced in its title.

The first physical phenomenon that occurs during delivery and immediately after consists in the gradual

decrease in the force of mutual attraction between the mother and her new-born. According to Newton's governing law, its intensity is proportional with the product of the two masses and inversely proportional with the squared distance between the centers of masses. For instance, the force of mutual attraction reduces four times at a distance of two meters and twenty-five times at five meters' distance. Even if disconnection does not occur yet, it looks like a sudden discontinuity of the mutual connection. In the old, classical mathematics, such a discontinuity was symbolically called a catastrophe.

In events of highest importance for the perpetuation of the species like natality, nature carefully avoids their occurrence. That is why, by delivering her message, the Holy Virgin appears with the child clinging around her neck (Fig. 4.8). Absolutely convincing. Otherwise, it is also well known that when an animal pet gives birth the mother keeps her offspring very close to its body.

The second physical phenomenon that simultaneously occurs with the first one, although it remains invisible, refers to the mutual attraction between the energy envelopes of the two bodies, the mother's and the child's. It is controlled by the Coulomb's law of mutual attraction which is analogous with the Newton's law, although real disconnections occur in this case. The dramatic consequences of such disconnections were already suggestively illustrated by the first two legends presented in the chapter 4.

The third physical phenomenon, subsequent to the former ones, consists in reconnecting the two forces of mutual attraction, namely gravitational and the electromagnetic ones, that occur between the mother and the new-born in the act of feeding. The duration of breast sucking, the quality and quantity of mother's milk, her devotion by emotional state and the power of her love for the child enhance the performances of reconnection. On the contrary, any deviation from these vital rules, as well as some artificial breedings, may involve dramatic consequences [Huxley, 1959]. Two years ago a new icon of the Holy Virgin feeding her Child was exposed, to whom it may concern, in the Nativity Church in Bethlehem, Palestine (Fig. 9.1). According to Osho's quote "Life is teaching in many ways".



Figure 9.1. Reconnecting the ties between the Mother and her Child by sucking.

The new-born is extremely sensitive to what happens during the above presented three physical phenomena of disconnection. All these human imperfections and events that occur during the process of birth, separately or together, are accurately recoded deeply in the new-born unconscious

memory. Much later, behavioral disturbances in the state of health of some individuals unexpectedly occur. In Paracelsus' terminology, inner harmony does not longer subsist. What is worse, the alternative identity, created by the mind in the brain later through the ego, emphasizes the above mentioned symptoms. Things happen like in the two legends, of Adam and Eve and of the Babel Tower. When disconnections occur, they are irreversible and their consequences are absolutely dramatic. At least in the second legend, people lost their heads and became so confused that they could not communicate with each other any longer.

For instance, at present, in the year 2018, there are some anonymous people who use the channels offered by mass media to complain that artificial intelligence, either separately or together with some robots, threatens the whole life and human civilization on the earth. This statement cannot be true. Intelligence and robots depend on humans. They cannot decide anything alone because they depend on humans. Only the humans or volcanos, for instance, as independent entities, can threaten someone or something. The alternative solution offered by such people is also absurd. They suggest emigration on other planets. The latest information offered is that some alien will visit the earth during this century and it seems to be friendly.

Since the above mentioned disconnections or breaks occur at the mental level, they are automatically associated with schizophrenia symptoms. In a completely different context, Osho used that term for human behavioral disorders without, however, mentioning their causes. In this particular case, the affection refers only to those disorders caused by some misconduct during the act of birth which is regarded as a cardinal point of life. Nevertheless, the birth of an individual is not an isolated event. As long as every individual is a part of its whole, and in this case the whole is even the universe, the birth of an individual is also an astral event. In order to identify the specific origin of this affection that is apparently different from the other causes, the disease was conventionally called, for the purposes of this paper only, *schizophrenia astralis*. The paper does not involve any medical matters. Two questions, however, might be worth of interest to be discussed now and here: 1) How old is that "astralis" affection? and 2) What is its probable extension nowadays?

All the dramatic consequences of the above mentioned disconnections, as already mentioned above, are due to the existing disaccord between the body and the mind. The two components are far from synchronicity, for instance. This means that the process of acquiring consciousness is not completed yet. That is why some personalities called people for awakening throughout history. Somerset Maugham, for instance, was right complaining how difficult it was to keep the body and the soul together. In the meantime, nothing has changed on the earth. Thus, one may assume that "astralis" affection started in the very day when the long process of consciousness began. By killing his father Legendary Oedipus was the first human being who proved his own contamination with *schizophrenia astralis*.

To evaluate the actual degree of the world population's contamination with the disease, Newton's third principle of reciprocal actions published in London in 1686, should be considered. It is also known as the law of equilibrium, and it is a universal law.

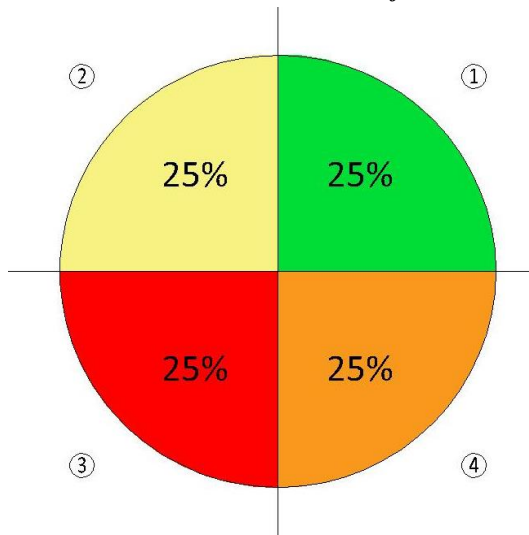


Figure 9.2. Demographic equilibrium.

During the 1960s Aldous Huxley, who lived then in California, evaluated the demographic equilibrium on the basis of the relation between good and evil. Some decades later, Carlo M. Cipolla presented a suggestive geometrical tool based on the two Cartesian axes [Cipolla, 1988]. Indeed, if the total amount of the world population is divided with four, i.e. the number of quadrants, one obtains the equal percentages of 25% due to each quadrant. It is important to note that mathematically it is only a global, probabilistic evaluation, not a deterministic one (Fig. 9.2).

Further, the four quadrants are balanced two by two according to their opposite directions: for instance, 25% no affection - quadrant no. 1, 25% partial affection with an increasing trend - quadrant no. 2, 25% full affection - quadrant no. 3, 25% partial affection with a decreasing trend - quadrant no. 4.

In other words, if now, in the year 2018, 8 billion people live on the earth, only 2 billion are not affected by the "astralis", while the rest of 6 billion is partially affected. Therefore, the global index of affection the world population with schizophrenia *astralis* is 3:4. It is an index worth of serious concern. Sad but true. In spite of this evidence, an official document was published several years ago. With the good intention of quieting some believers, the document stated that hell does not exist. Thus, by the virtue of the universal law of equilibrium, the existence of paradise was automatically cancelled. Consequently, it has increased the confusion created by such a statement which nobody asked for, and confusion is one of the main symptoms of *schizophrenia astralis*.

Mathematically, this disease can be healed by following two steps. The first one is rather hard and means awareness [Osho, 2014]. Osho quoted that awareness is eternal, it knows no death. Since the ancient senses of the body have lost their capacity of feeling, the consciousness of the mind should be used instead, in order to convince people about the real cause of *schizophrenia astralis*. To be efficient, facts are needed, not words. Truth is knowing by being. After so many centuries of confusion, the old habits and traditions are difficult to be suddenly demolished and replaced with a new vision, even if it is much easier. The second step consists in eliminating all the causes of this disease by discipline. It is a less difficult task than the first one. With an important condition: to avoid the confusion between technology and culture.

Technology belongs to the mind while culture belongs to the body, and unfortunately, the body and the mind are not yet fully miscible. There is nothing to worry about artificial intelligence. All threats come from the affected humans. Intelligence is pride for humanity. There is no longer any need to emigrate on other planets or meet aliens.

10. Conclusion

Mother Nature does not make mistakes. All objects of Heraclitus' universe are physically interconnected, two by two, with myriads of invisible and immaterial ties. Their spatial movements are thus permanently self-controlled. The astral universe as a whole appears like a coherent and stable spatial entity. The human beings, as parts of their whole, are also connected with their universe by such invisible and immaterial ties. Both humans and the universe are mirrored into each other. However, only humans, as the most advanced beings living on the earth, are experiencing difficulties with their lives and are in conflict with their environment.

It is known for long that both happiness and evil of humans are not located mysteriously somewhere far away, but always exist close to human places. On the other hand, in old times the idea was induced that humans are sinners and were cursed to bear the heavy consequences of their sin. That sin, consisting in disobedience, was related in two Biblical Legends, first in that of the Adam and the Eve and the second in that of the Babel Tower.

The concept of this paper has been built up on gravity. Physically, gravity is the force of mutual attraction between material bodies, but philosophically it involves the unity of contraries expressed by the dictum *coincidentia oppositorum*. In that context, the two legends, as parables, were first decrypted. It was found out that the invisible and immaterial ties between humans and their universe were irreversibly broken. Humans as parts were disconnected from the universe as their whole. The confusion created by those astral disconnections brought some humans to madness. On the other hand, comparable disconnections were discovered by regarding to the second cardinal point of the life, birth, from the same gravitational perspective. They disturb what Paracelsus called the inner harmony of humans, and cause madness in some individuals.

Not at all accidentally, those psychic, often convulsive, affections were predicted by the Bible. The holy book was written by wise people who very likely descended from highly advanced civilizations. It is an old disease that may last since the mind assumed human individual consciousness. It can be, however, prevented by following the advice of the Legendary Holy Virgo with the Child. Conventionally, the disease was called here by its Latin name of *schizophrenia astralis*. It faithfully mirrors, the existing, deeply hidden conflicts, between the body and the mind in a large and unexpected number of forms.

It was evaluated that, along human history, probably 75% of world population was affected by *schizophrenia astralis*, but only 25% in an advanced form. In the ancient world, populated by some millions of people only, the above mentioned percentages might pass unobserved for a while. On the contrary, in the existing world, crowded by billions and, in addition, very unequally distributed on the surface of globe, there is no wonder that cohabitation on the earth has become rather uncomfortable. That is why these distinct percentages of contamination answer now, with good accuracy, to all the three questions raised at the beginning of the paper, namely why: 1) *Homo, homini lupus est?* 2)

Something is rotten in the state of Denmark? and 3) Some people behave like being motherless and fatherless?

Schizophrenia astralis is not an infectious disease, but it becomes sensible to population growth. During the evolution of humankind, it can be gradually eradicated with equanimity and wisdom before it is too late. Any alien support is not needed. So much the less any emigration on other planets. Once checked and healed, i.e. with well-balanced body and mind, each *homo gravitas* automatically becomes a *homo astralis*. If until now, theoretically, *homo gravitas* was regarded as related only to the earthen forces of mutual attraction, *homo astralis* is opened to the large perspective of the whole universe. So, keep standing *homo gravitas*. Awake and, as a good host, welcome *homo astralis* on the marvelous earthen environment. *Sic cogito!*

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