

**Nicolai Levashov**

**SPIRIT  
AND  
MIND**

**San Francisco  
2000**

**Translated from Russian into English by**  
**Alexander Nudelman**

**Translation revised and Edited by**  
**Barbara G. Koopman, M.D., Ph.D**

**Illustrations by**  
**Nicolai Levashov**

## **Contents**

### **Volume 1**

Introduction .....	3
Preface: Barbara G. Koopman, M.D., Ph.D .....	4
Preface: Mark J. Friedman , Ph.D .....	7
Chapter 1. The qualitative structure of planet Earth .....	8
Chapter 2. Living matter: how life arose in space .....	18
Chapter 3. The nature of emotions and their role in the evolution of life .....	29
Chapter 4. The nature of the emotions: the higher emotions in man.....	40
Chapter 5. The Nature of Memory: Short- and Long-Term Memory .....	54
Chapter 6. The nature and origin of consciousness .....	67
Appendix. Guide to illustrations .....	77

**Copyright 1999 by Nicolai Levashov**

All rights reserved. No part of this book may be reproduced in any form or by any electronic or mechanical means including information storage and retrieval systems without permission in writing from the author. Published by Nicolai Levashov, 738 10th Avenue, San Francisco, CA 94118. (415) 831-8829, Fax (415) 831-8839. First edition.

## Introduction

The Soul, or Spirit — all of us wonder, "*What is the soul?*" and long to believe in its reality. No one appreciates the idea that we vanish — irrevocably — from the face of the earth, once we have passed away. Yet we can find nothing to assuage our hunger for knowledge of such things — not in the anecdotes of those who have returned from clinical death; not in the ruminations of priests or theologians.

So what can we expect in the hereafter — **eternal darkness, purgatory, hell or "Logos?"**

And, what exactly is — the **SOUL**?

Many people who have experienced head injuries or clinical death report seeing and hearing souls of the deceased and viewing the channels through which they depart. But -where do they go, where are "heaven" or "hell" if they exist and why can't the rest of us see, hear or sense any of this?

Current medical wisdom tries to explain away real, objective phenomena as merely the effect of oxygen deficit in the brain.

Do past lives really exist — and if so, why do most of us have no knowledge or recollection of them? What, actually, is memory? How do we record, store, and access from memory something meaningful to us but long forgotten?

And what is the brain, *per se*, and how does it work? How do our brain cells receive and store information from the outside world?

How do we perceive and sense the surrounding world? What, in essence, are our feelings and emotions? Are we able to understand the phenomenon of love feelings and how they arise in the depths of our soul?

Can we attribute them merely to sexual attraction with which Mother Nature has seen fit to endow us? If it is merely that, how can we explain why a man may feel the stirrings of love only for a specific woman — and not just for anybody he may chance to meet on the street, in the work place, while traveling or theater-going?

If it is something other than just physical attraction, what is it — and why can love disappear or turn to complete indifference — or even mutual hatred at times?

As for human personality — how does one develop a particular psychic organization and character? Why does one person have great will power while another, weak individual, is totally devoid of it? How do the different types of psychic organization evolve and why, in a given individual, may the psychic type change in the course of one's lifetime?

How does homosexuality originate?

And intuition — what is it? Where does the "spontaneous knowing" that we experience come from and why do we receive it?

So many questions arise in our conscious mind, but how can we construe the conscious and subconscious *per se*?

How do we acquire the ability to think and what is the process of thinking? All these questions arise in our brain and require answers if we wish to regard ourselves as truly intelligent beings. Yet one question looms largely and eclipses all the others — the matter of our Soul, our Spirit.

Where do our souls come from; why do we possess them and where do they go when we die? What befalls them in heaven or hell, and for what sins are they returned back to Earth?!

Does our life have a purpose — or is it merely a brief and evanescent moment between past and future...?

## Preface: Barbara G. Koopman, M.D., Ph.D

*Spirit and Mind* is a worthy sequel and further elucidation of Levashov's first groundbreaking work, *The Final Appeal to Mankind*.<sup>1</sup>

Published in Russian in 1994, the latter earned him the coveted honor of election to active membership in the United Nations' International Informatization Academy — a global organization (official advisory body to the U.N. Economic and Social Council), numbering among its ranks several heads of state, a host of Nobelists and leading professionals in every field of endeavor.

His previous and this present book together constitute the first work of its kind by a theoretical radiophysicist to present a "**unified theory of everything**," so sought after by today's scientists. It is strongly recommended that they be read together in chronological order.

Gifted with an encyclopedic knowledge of physics, cosmology, medicine, biology and genetics, Levashov has unfolded a unique, highly original "**New Knowledge**." Here he walks us through the universal laws behind all creation — demystifying issues of life, death and the cosmic riddles confronting us today.

Against the backdrop of mounting world unrest, Levashov's contributions are especially timely. Within the last thirty or forty years, orthodox physics has been facing **the collapse of its most fundamental laws**, as more and more empirical research data reveal their inherent inconsistency. The application of so-called "fudge factors" to reconcile the contradictions has left them on even shakier grounds.

Recently, two noted astrophysicists, Nodland and Ralston, after analyzing radio waves from 160 distant galaxies, sent scientists reeling with their discovery that **space is not uniform (isotropic)**, as believed — in other words, it is not the same in all directions and does, in fact, have "a north and south," ("up and down") orientation. By the same token, **the speed of light in a vacuum cannot be constant**.<sup>2</sup> These findings completely overturn the most fundamental postulates of Relativity Theory — thereby destroying the very foundation of traditional physics and opening up the possibility that other universes may exist.

This, then, turns out to be a striking corroboration of Levashov's views aired **several years prior to their findings** in the Russian edition of *The Final Appeal*.... Here he unequivocally shows that the view of the cosmos by mainstream astrophysicists is totally incorrect, that space is not uniform and that countless other universes exist far beyond the realm of known creation.

Similarly, another of Levashov's key formulations, also set forth in his earlier book, received empirical verification thanks to a chance occurrence in a quantum biology research lab — subsequently dubbed the "DNA Phantom Effect." By accident it was discovered that DNA, placed in a special chamber and measured with laser spectography, continues — **after its removal from the chamber** — to register positively on the spectograph **as if it were still present**.<sup>3</sup>

According to Levashov, what they stumbled on, the so-called "phantom effect," was actually a **side effect** — the existence of the etheric body created by the DNA molecule. In other words, without recognizing its significance, they had found a piece of the puzzle of biogenesis — the origin of living life from inanimate matter. Introduced in the first book, it is developed in depth in the present volume.

Thanks to a much broader perspective of reality, Levashov was able to formulate his theories a decade prior to those chance findings — stumbled upon by scientists who failed to grasp their significance — chance findings that corroborated his position on cosmology and his masterful elucidation of the origin of life.

What makes the "New Knowledge" unique is that it is a **coherent** system that covers all aspects of reality, enabling him to formulate precisely and scientifically the underlying natural pro-

---

<sup>1</sup> English translation, San Francisco, private publication.

<sup>2</sup> Wilford, John Noble, "Research Suggests Universe Has an 'Up' and a 'Down'," New York Times, April 18, 1997

<sup>3</sup> Vladimir Poponin and Rollin McCraty, "The DNA Effect: Direct Measurement of a New Field in the Vacuum Substructure", Heartmath Research Center, Boulder Creek, California, 1995

cesses that shape everything in the cosmos.

Neurology has shown that **man uses only about five percent of his cerebral neurons**, while the other ninety-five percent lie dormant and undeveloped. According to Levashov, the physical realm that we grasp with our five senses (abetted by devices based on those senses) is but a small portion of the total reality—the tip of the iceberg, as it were. There are myriad realms of reality that, due to our developmental limitations, we cannot even begin to perceive. Levashov's multidimensional perspective opens these realms to us by providing a coherent structural system that ties them all together.

Starting with the primordial building blocks of creation, "primary matters," he takes us step by step **through their eternal interplay, their cosmic dance, and manner of response to any changes in the structure of anisotropic space** — choreographed by strict numerical values that determine the creation or dissolution of everything that exists. The universe is perpetually playing a "numbers" game: primary matters fuse and create, or separate and undo — according to precise numerical parameters, described as "dimensionalities" and "dimensionality gradients" which recur the-matically throughout the corpus of his work.

A kind of illumination, **an opening of the mind, begins to happen** as we read and soak up this knowledge and become awestruck at its startling beauty. Solidly consistent at every level of reality, these concepts cross the boundaries of separate sciences and apply universally to all that unfolds: from what happens inside the tunnel of a DNA molecule to the birth of a star, from the genesis of all living life to the evolution of the human spirit; from the disintegration of a transuranium atom to the emergence of consciousness and human emotions.

That is why *Spirit and Mind* begins by explaining Levashov's long-held position that **our planet is not unique in the universe**. Expanding on the unified theory set forth in his first book, he invokes the same principles to explain what has never been explained before — the quantitative and qualitative conditions for the emergence of life on our planet—or life in general throughout the universe. He clearly shows how these conditions come together to play a role in the genesis of life — leading us to **the inescapable conclusion that there are billions of planets with life and that the origin of life is inevitable**.

For example, he explains how atmospheres are created -without which no life could exist; how the length of the planetary day determines the quality of its emerging life; how wind develops and its role in the creation of life. And he reveals, for the first time, the real nature of that elusive and mysterious conundrum — the phenomenon of gravity.

We need not wonder what these have to do with matters of the mind and spirit. That is easily explainable if we realize that universal laws encompass the entire range of macro-cosmic and microcosmic existence. **It is impossible to fathom ourselves if we do not first know the world, or appreciate what we share with an atom or a universe**.

Levashov then continues to apply the same system, the same structural theory, to explain the **nature of emotions** and to unravel some of the enigmas never before elucidated by science. He explains, for example, how emotions first arose in life forms as a mechanism for both individual and species survival, and for adaptation to the organism's ecological niche. He then elucidates the **nature and development of love** — particularly that based on soul compatibility — and its role in influencing evolutionary development and the conception of qualitatively superior offspring.

We learn, further, about **tantra**, a system of mind control through sexuality, and how it played a major role in population survival until it became largely supplanted by organized religion. He describes how both these **modalities of psi-control** of populations have been used for good or evil throughout history and he foresees some form of its continuation into contemporary times. What it presages for our planet, he warns, depends on which path Homo sapiens chooses to pursue.

And finally we are gifted with an in-depth view of two of our least understood higher attributes — **memory** and **consciousness**. For the first time, we are presented with a beautifully coherent exposition of how consciousness arises during the evolution of life, and how the process unfolds in

the human brain to make this miracle happen. Both functions, he explains, are **real, material processes**, representing a **qualitative transformation of matter**. He differentiates between short and long-term memory and paints a clear and vivid picture of what occurs at the cellular, atomic, molecular and qualitative levels

This is all part of the intricate mosaic of *Spirit and Mind*, solidly based on a coherent structural theory that proves the ultimate connectedness, the masterful architecture of all creation. That is why, for example, we can begin to grasp how the numerical values of dimensionality gradients determine man's leap to the next evolutionary level — how his astral cells reach critical mass and rupture the qualitative barrier into the first mental level; how a severely damaged astral body can trigger the onset of cancer; or how heavy metal music destroys the astral cells of the brain and causes reverse evolution. And so on and so on...

And finally, for the first time, thanks to Levashov, we learn the true **nature of karma**, which everyone talks about and no one, until now, has been able to explain. And so we come to understand how **we are the architects of our own karma** — not some external "Magistrate;" **we are the "Higher Tribunal" that sits in judgment** over our misdeeds and good deeds, our actions and feelings, which become literally encoded and imprinted on our spiritual bodies. That is because for every action we take in life, we must bring ourselves to a specific emotional state and its corresponding spiritual level. In turn, this emotional state can influence and transform the original structure of our spirit. This occurs, for example, when we transgress, leaving a change in our structure that becomes frozen and permanent — a "footprint" that remains encoded on our soul.

In sum, like all of creation, Homo Sapiens is subject to the circulation of primary matters throughout his entire structure. How robustly and at what levels they circulate are pivotal for all his bodily functions, his memory, his state of health, his consciousness, his emotions, his spiritual development. ..

Accompanying Levashov as he puts this all together is a daunting, but thrilling expedition. The intrepid reader who undertakes it actively, and in earnest, will find himself rewarded with a **substantial boost up the evolutionary ladder**. We are enormously indebted to Levashov for bringing together a "unified theory of everything." By explaining the hitherto unexplainable in terms of basic principles encompassing every aspect of existence, he endows us with the hope for a future and a spellbinding vision of what we may aspire to become.

Barbara G. Koopman, M.D., Ph.D. Diplomate, American Board of  
Psychiatry and Neurology, Former Member Attending  
Staff, Mount Sinai Hospital, New York City

## Preface: Mark J. Friedman , Ph.D

*Spirit and Mind* is a book of extraordinary vision and creativity, which offers both the layman and scientist an in-depth solution of many of mankind's most perplexing riddles. It covers a broad spectrum of subjects, ranging from the origin of life to the structure of the cosmos, and from consciousness and memory to life after death. The work is unique — not only in scope, but in the fastidiously scientific explanation of reality in all its aspects. Most strikingly, it provides insights and knowledge of reality never before offered in any textbook or thesis. In creativity and originality, it is unmatched. In the present climate of *malaise* and anxiety, Levashov brings a message of hope to all of mankind. If we are really to survive it will take the kind of knowledge which Levashov imparts to rouse us out of our restrictive, linear thought processes and embrace a new and vitally different view of the world and cosmos.

In the seventeenth century, the human race had to deal with the *angst* of discovering that man and his planet were not the center of universe and the stars were not fixed and immutable — contrary to their most cherished beliefs. Contemporary man, too, is grappling with the recognition that his cherished models of reality no longer hold. Through the years, these models were created by garnering more and more postulates — based mainly on belief. Reality was then manipulated to fit these postulates and validate the beliefs. Today's scientists have thousands of postulates — akin to a religion that creates a pantheon of gods.

And, as they create and use more and more new devices, they must, perforce, create more and more new concepts, forcing reality into a kind of "bed of Procrustes." We can observe this, for example, in the increasing number of elementary particles postulated to explain the composition of physical matter — "leptons," "quarks" and "mediators." The leptons are then further divided by categories to match their "quantum qualities." while the quark family is assigned six "flavors" for a similar purpose. And the classification gets even more detailed, finally yielding a plethora of elementary particles, including 12 leptons, 36 quarks and 12+ mediators.

Compounding this — in order to deal with "vacuum energy density" Einstein was compelled to "plug in" a "Cosmological Constant," which impelled even experts in the field to point out its "underlying misunderstanding," "missing pieces" and "important misconceptions."<sup>4</sup>

"Superstring" theory, defined in terms of 10 and 26 dimensions followed, plus an additional computed "11-dimension" postulate described in the literature as "being inaccessible to both our known physical sensory system and to our present instrumentation." All this highlights the fact that when a system starts to collapse — when new evidence appears that destroys the fundamental structure — a giant crisis in science ensues. Levashov bases his position on an altogether different view of reality — an **anisotropic universe** and the **quantized structure of space**. By contrast, modern cosmologists assume that the universe is isotropic and all their theories are based on assumptions of isotropic space.

Levashov's position breaks sharply with the conventional paradigm. In an **anisotropic universe**, the quality of space changes in the different directions — opening up an enormously rich and exciting panorama of possibilities. The importance of this approach lies in the fact that everything can be explained on this basis, with no "missing pieces" — making possible a valid formulation of a long sought-after unified theory. There are many treasures to be plumbed in this book. The deeper we penetrate into the multidimensional reality of Levashov, the greater the enlightenment and awe we feel. Reading *Spirit and Mind* can change forever the way we look at the world and what it holds in store for us.

Mark J. Friedman, Ph.D. Associate Professor Mathematical Sciences Dept. University of Alabama in Huntsville, Huntsville, AL 35899

---

<sup>4</sup> Tiller, William A., *Science and Human Transformation: Subtle Energies, Intentionality, and Consciousness*, Pavior Publishing, Walnut Creek, California, 1997.

## Chapter 1. The qualitative structure of planet Earth

[Download all pictures — 9190 kB](#)

The souls of mankind and of all living creatures that inhabit the Earth — where do they come from and where do they go after death...? And what, actually, is a soul or spirit? How do souls appear and what do they signify? Is a soul material, and, if so, what kind of substance is it made of? And why are so many people incapable of seeing it, hearing it, or perceiving it in any way?

Perhaps it is just an illusion we are all eager to believe in. The mere notion that, with the physical death of the body, we lose all our thoughts and feelings, all our discoveries, great or small, but still our own — and all our revelations — drowns us in a sea of deadly melancholy.

Is that why we try to conjure up beguiling fantasies -just to quell the fear of death that lies within our soul? But is this the only source of our desire to know what awaits us in the hereafter?

And, aside from that — are there many people who are even capable of feeling or seeing radio waves or any other forms of radiation? I think not. And only thanks to invented devices does the invisible become visible and tangible. But these devices merely compensate for our limited ability to perceive reality through our senses.

**In essence, the problem lies in the imperfection and limitations of our senses — rendering selective and limited the input bombarding our brain from the surrounding world.** For example, our eyes can see only the optical radiation of our star, the sun, [(4-10)10<sup>10</sup>m] comprising less than one percent of the total radiation in our surrounding space. And we base this only on the data from our present-day science. But what if this knowledge is limited?

In the recent past, two hundred years ago, no one suspected the existence of radio waves or other forms of radiation. The mere notion would have seemed heretical or absurd. Nevertheless, they existed long before man first appeared on Earth; they have been here since the birth of the universe, the home of our solar system.

If ninety-nine out of a hundred men are blind and only one can see, it does not make him wrong if no one else perceives what he is seeing — even if everyone else's eyes, feel just like his when touched. It would be far more fitting for the blind to try recapturing their sight and viewing reality through their own eyes — no matter how far-fetched their sighted comrades' observations seem. Or, failing this, find new devices to help them see the now (to them) unseeable.

But how can the blind become sighted? Is it possible, in principle? Of course it is! **The only solution is for man to attain a totally new level of evolutionary development.**

But before answering all these questions and many more, we must have a correct grasp of what our planet Earth really is, how many levels it possesses, how they developed, and where they are located.

Our universe has a dimensionality that is very close to the number three (**L=3.00017...**), thereby giving rise to the widely-held misconception that space is three-dimensional.<sup>5</sup> Matrix space,

---

<sup>5</sup> **Editor's note:** Basic to our understanding, we must first place Earth in a universe that is far different from the conventional view. In the conventional version, the universe is regarded as **ISOTROPIC** (i.e. uniform or homogeneous). This means that it has **the same qualities and properties in all directions** and that therefore **matter manifests in the same way in all directions and areas of space**. If, however, we start with the fundamental view of a universe that is **ANISOTROPIC** (i.e., **nonuniform** or **nonhomogeneous**), it becomes possible to unlock many mysteries of nature that go far beyond cosmology. In an **ANISOTROPIC** universe, the quality and properties of space are **constantly changing**. When the quality of the change reaches a **certain critical value**, this creates a **new quality** — a new transformation and new manifestation of reality. **What does this mean and how does this happen?** All of creation is filled with **billions** of primordial, basic building blocks, called "**primary matters**." They are in constant chaotic motion and are **discrete**, i.e., **they cannot be broken down into smaller units** (like the atoms of physically solid matter). Their presence and activity **constantly change the volume of space they occupy** by impinging upon and **deforming the curvature of space**. **Every change in the quality of space is expressed by the symbol, ΔL**, which has a numerical value. ("Δ" used in a formula is the symbol ΔL). When the **ΔL** reaches a **certain critical numerical value**, it exerts a **transformative** effect upon the primary matters. At some point in the process, the numerical value of the **ΔL** becomes **compatible** with the primary matters occupying its space — and this sets up the necessary **conditions** for making the

however, does not possess uniform dimensionality. Rather it consists of multiple layers of quantized dimensionality, each layer of which differs from one another by a value of  $\Delta L = 0.020203236...$ . This delineates the number of primary matters which makes up the layer ([see Fig. 1](#)). In other words, each dimensionality change of the matrix space by a value of  $\Delta L$  leads to a qualitative transformation and the creation of space universes with new qualitative composition. By way of clarification — perhaps many of you as children enjoyed playing with blocks and making all sorts of different pictures or structures with them. Use of the value  $\Delta L$ , denoting numerical change in dimensionality, may be likened to the process of adding a new block (i.e., a new primary matter) and with it the possibility of making a new "picture universe" by rearranging all the blocks in the set.

But this is possible only if all the blocks (i.e., all the primary matters) are of the same size. If we mix blocks of varying size and try to make a "picture universe" our efforts will be in vain, even if we have enough blocks to make up several pictures. This is because we must first sort out the blocks by size and then, using all of the same size, try to make a "picture."

Consecutive change in dimensionality by one and the same number value,  $\Delta L$ , is really quantization of the matrix space  $\gamma_i$ . It is expressed by the quantization index,  $\gamma_i$ , which is the permissible value of the number of "blocks" (i.e., primary matters) needed to make a new "picture."

Thus, just as you can make different "pictures" from different amounts of the same-size blocks, so in the matrix space, space universes are composed of different amounts of identical primary matter forms. Such space universes constitute a unitary system, like a layered pie, with each layer having a distinct quality and possessing one block (i.e., one primary matter) more or less than its neighbor. All these layers are in constant motion and constantly interacting.

In the areas of their contact, such interactions between adjacent space universes give rise either to stars or black holes ([see Fig. 2](#)). More precisely, if one of the space universes has one "block" (primary matter) more than its neighbor, the contact results in the emergence of a star; if it has one "block" less, a black hole forms. (For a more detailed account, see my previous book, [The Final Appeal to Mankind](#), Chs. 10-12). At a certain stage in its evolution, the star explodes, producing a supernova. The latter significantly deforms its surrounding space and ejects a huge amount of matter ([see Fig. 3](#)).

This results in fluctuations of space dimensionality analogous to the appearance of waves on a watery surface after a stone is tossed in. Masses of the ejected material then fill in these dimensional nonuniformities of space surrounding the star. From these masses planets start to form ([see Fig. 4](#)). Let us try to understand how and why this happens...

The dimensionality of our universe happens to be  $L=3.00017$ . This permits peaceful coexistence of the seven specific types of primary matter which compose it. To clarify the distinction between different types of matter, let us recall our "blocks." The correct design is assembled only with blocks all of the same size.

It is simply impossible to compose a viable picture by using different size blocks. At the outset we must select blocks of the same size and shape from out of the mixed pile. Only then can we assemble the correct picture. Such size and shape criteria for the process represent the quantization index,  $\gamma_i$ , of space dimensionality.

---

primary matters **merge into combinations**, called "hybrids." **It is really a simple, mutual interplay between matter and space; PRIMARY MATTERS ACT UPON SPACE, CHANGING ITS QUALITIES — AND THE CHANGED QUALITIES OF SPACE ACT UPON AND TRANSFORM MATTER. QUANTIZATION** plays an important role in this process. Simply put, **QUANTIZATION** means that **"things happen" in discrete quantities**. For example, because primary matters are **discrete (non-breakable)** into smaller units, a combination of one and a half primary matters would be impossible to create. **Space itself is quantized** in structure, and conceptually can be looked at as having **multiple layers of given numerical values**, with each layer possessing a characteristic qualitative condition. **SELF-DIMENSIONALITY** has to do with **how much an object transforms the quality and properties of its surrounding space**. Actually, every object has a **range or spectrum** in which it can exist in micro- or macrospace: **SELF-DIMENSIONALITY denotes the particular place in its spectrum at which it is maximally stable**. There are profound implications in this **layering of quantized space**, both in the **macrocosm** and **microcosm**, including — among others — questions pertaining to gravity, space travel, biogenesis, genetic engineering, human evolution, consciousness and the birth of black holes. All of this can be assimilated gradually by the motivated reader, at ever-deepening levels of comprehension.

At the same time, we must not forget that the blocks of different sizes do not disappear. They continue to exist but we cannot create a picture with them similar to what we made before. However, we could make other pictures from them by sorting them out according to size and shape. But these designs would be of a different type and would not influence or change our original "picture" one iota.

By the same token — in addition to space universes of our type, other space universes exist with a different value for their quantization index,  $\gamma_i$ . But since they have virtually no impact upon our type of space, we may disregard them in our study of our universe's origin.

The permissible forms of primary matter, i.e. those comprising our space universe of dimensionality  $\mathbf{L}$ , do not interact with each other in uniform space — i.e., space of homogeneous (isotropic) dimensionality.

In other words, their coefficient of interaction  $\alpha$  in a uniform space, i.e., a space of homogeneous dimensionality  $\alpha$ , equals 0. However, during an explosion of a supernova, there is a spread of concentric waves which deforms the surrounding space, creating zones of spatial nonuniformity (anisotropy).

Therefore, when free forms of matter of our space universe enter these nonuniform zones, they find themselves under totally new conditions and, accordingly, manifest themselves in a different way. New "picture mosaics" start arising from the same seven "blocks" (primary matters) in the zones of dimensional nonuniformity. Under these different conditions, free forms of matter begin to emerge and create new qualities in accordance with the dimensionality gradient in the nonuniform zone.

Every new change in spatial dimensionality by a value of  $\Delta\mathbf{L}$  within the nonuniform zone creates conditions for combining with the next emerging form of matter. This process continues until the whole nonuniform zone is filled with hybrid forms of matter ([see Fig. 5](#)).

As the process unfolds, each of these hybrid forms partially compensates for the nonuniformity of the space dimensionality. As a result of this merging of primary matters, the pre-explosion dimensionality of the nonuniform zone is restored ([see Fig. 6](#)).

It is no accident that scientists estimate the amount of matter in the universe to be about **ten times more than the amount of the existing physically dense matter**. Where is the unperceivable **90% of matter in the universe** and what does it represent? Modern science has offered a very simple answer — it is "**dark matter**." This is the matter of the universe that we can neither see, hear, nor feel...

So this "**dark matter**" represents precisely **90% of the universe's matter**. Isn't this a splendid solution? It is an answer very familiar to those who remember the crisis in nuclear physics at the beginning of the twentieth century; only then the problem manifested as a disappearance of a portion of matter discovered during certain nuclear processes.

At a special international conference of physicists in Geneva, after long discussion, this simple "solution" was offered: the vanishing matter is **inside a particle, the neutrino, which we can neither see, hear, feel, nor detect** with any existing scientific apparatus.

So, the disappearance of matter during nuclear reactions was of the kind known to scientists. However, in the case of "**dark matter**", 90% of matter in the universe just vanished. Surprisingly, people incapable of explaining even what they can "touch" call themselves scientists and pass judgment on everyone else. Even more astonishing is that everyone else listens to them.

**So it is actually the unbound (non-interacting) primary matter of our universe that constitutes this apocryphal "dark matter."** As for physically solid matter, it originates as a result of the merging of primary matters in a nonuniform zone of space dimensionality. Now let us return again to the matter of nonuniform space dimensionality.

In a previous work (*op. cit.*). I described the formation of six interposed material spheres arising from synthesis of the hybrid forms of seven types of primary matter within a zone of dimensional nonuniformity ([see Fig. 7](#)). These spheres have properties in common as well as differences.

(For a more detailed account, see Ch. 1, *op. cit.*).

The number of primary matters which comprise each of the six spheres determines their common properties, expressed as a coefficient of interaction  $a$  ([see Fig. 8](#)). The differences are determined by the structure of each sphere. Each of them has a different number of primary matters that merged to create it. Let us designate the seven forms of primary matter by the letters **A**, **B**, **C**, **D**, **E**, **F** and **G**, respectively, and the hybrid forms (resulting from their mergence) as **AB**, **ABC** ... and so on through to **ABCDEFG**.

The third mental sphere is composed of the hybrid **AB**;  
 the second mental sphere, **ABC**;  
 the first mental sphere, **ABCD**;  
 the astral sphere **ABCDE**;  
 the etheric sphere, **ABCDEF**, and finally,  
 the physical sphere, planet Earth, **ABCDEFG**.

All are a consequence of the merging of seven primary matters within a zone of space nonuniformity.

The substance comprising the physical sphere, planet Earth, has four aggregate states — **solid**, **liquid**, **gaseous** and **plasma**. The different aggregate states appear as a result of dimensionality value fluctuations of less than

$\Delta L = 0.020203236$ . It is no accident that two thirds of our planet's surface is covered by ocean, with the remaining portion comprising the mainland. There is a distinct correlation between the size of the planet and the qualitative content of its surface.

What is key here is that the dimensionality levels within a nonuniform space zone are constantly changing. At the same time, successive forms of matter can merge only when the space dimensionality changes by the next value of  $\Delta L$ .

During the formation of the hybrid forms, there is a gradual restoration of dimensionality within the zone of nonuniform space up to the level existing before the appearance of the nonuniformity. By analogy — if you fill a hole in the ground with dirt, it will disappear. This occurs because the hybrid forms of matter impact space dimensionality by the opposite numerical value. Concomitantly, heavy elements have the highest, and light elements, the lowest dimensionality within this zone ([see Fig. 9](#)). This is related to the elements' degree of stability. The key fact here is that as elements absorb radiation, their changes in dimensionality become supercritical in some cases. Atoms then decompose until stable elements are formed.

Among radioactive elements are tritium and deuterium, as well as the transuranium elements. What is the cause of such diversity? The difference in their atomic weights is more than two hundred fifty units, yet all of them are radioactive. But there is no inconsistency here. Everything is very simple: initially they have different levels of dimensionality. Uncombined (free) hydrogen can have a dimensionality level of any of the values within the following spectrum:

$$2,87890 < L_{\text{micro}} < 2,89915 \quad (1)$$

Whenever the dimensionality level of tritium approaches the upper limit of this range, even without sufficient impact on its microcosm, it becomes radioactive. This is because the absorption of radiation renders the hydrogen atom's dimensionality level supercritical and the atom decomposes:

$$L_{\text{H}} > 2,89915$$

By contrast, the dimensionalities of the transuranium elements are closer to the lower limit of spectrum (1), but their self-dimensionality impact on their microcosm is close to the critical value. And even minor dimensionality fluctuations generated in an atom during absorption of radiation can render it unstable and initiate disintegration ([see Fig. 10](#)).

For this reason, the planet's core is composed of heavy elements, which diminish in quantity

from center to periphery. Elements of moderate weight, or combinations of moderate and light-weight elements make up the planet's crust, rendering it far different from the Earth's center. If we take sea level as the starting point, we note that all the Earth's indentations are filled with water, which is a combination of light elements such as oxygen and hydrogen.

Further up, there is an atmosphere composed of light element gases extending into the ionosphere. Ions are a transitional form between the physical and non-physical matter of our universe. Decomposition of ions gives rise to various types of radiation, so ions, strictly speaking, cannot be called matter ([see Fig. 11](#)).

Let us recall that every nucleus impacts its microcosm. Only the degree of impact varies from element to element. Every nucleon — (nucleons are protons and neutrons comprising the nucleus) — changes its microspace dimensionality by a value of:

$$\Delta L_{\text{micro}} \approx 0,000086$$

Therefore, the number of nucleons in an atom (i.e., its atomic weight) is what determines its dimensionality level. **The self-dimensionality level of an atom**, in turn, determines the sub-range of dimensionality within spectrum (1) at which the atom is stable. For this reason, the hydrogen atom with its atomic weight of one is stable within practically the whole of spectrum (1).

For a similar reason, the uranium atom, weighing 238 atomic units is unstable. The instability is due to the atom's self-dimensionality level being close to the upper limit of spectrum (1), so that even an otherwise insignificant disturbance in dimensionality is enough **to make it unstable and trigger disintegration**.

At this point we are nearing an **understanding of what governs and makes possible the origin of LIFE on planets**. Once a planet is formed from free matter in a zone of nonuniform macrospace, the overall level of dimensionality is restored to the point at which it existed before the supernova explosion. At the same time, the deformation of the macrospace remains: Hybrid matters then fill only this nonuniform zone of macrospace.

More specifically, this occurs when the dimensionality level of the hybrid forms **ABCDEFGF**, of the physically solid (Earth) sphere (**PDS**), falls within the following dimensionality range:

$$2.87890 < L_{\text{PDS}} < 2.89915; \tag{2}$$

Dimensionality range of the hybrid form **ABCDEF**, of the etheric sphere (ES) is:

$$2.89915 < L_{\text{ES}} < 2.91935; \tag{3}$$

Dimensionality range of the hybrid form, **ABCDE**, of the astral sphere (AS) is:

$$2.91935 < L_{\text{AS}} < 2.93956; \tag{4}$$

Dimensionality range of the hybrid form **ABCD**, of the first mental sphere (FMS) is:

$$2.93956 < L_{\text{FMS}} < 2.95976; \tag{5}$$

Dimensionality range of the hybrid form **ABC** of the second mental sphere (SMS) is:

$$2.95976 < L_{\text{SMS}} < 2.97996; \tag{6}$$

Dimensionality range of the hybrid form **AB** of the third mental sphere (TMS) is:

$$2.97996 < L_{\text{TMS}} < 3.00017. \tag{7}$$

After formation of the planet, the macrospace dimensionality returns to the initial level which existed prior to the supernova explosion. During completion of the formation process, a **constant gradient** develops between the dimensionality level of physically solid matter (**2.89915**) and that of the surrounding macrospace (**3.00017**). This constant gradient is an **ABSOLUTE REQUISITE** for the origin of life. The **value** of this gradient is of paramount importance. It is precisely the value of this gradient that determines the evolutionary potential of living matter and of life. The minimal gradient enabling the development of life must be equal to:

$$\zeta = 1\gamma_i (\Delta L) \tag{8}$$

The development of a sensory apparatus and memory function — without which no intelli-

gence can evolve — requires a dimensionality gradient of:

$$\zeta = 2\gamma_i (\Delta L) \quad (9)$$

The **ABSOLUTE REQUISITE** for the origin and development of intelligence is a dimensionality gradient of:

$$\zeta = 3\gamma_i (\Delta L) \quad (10)$$

Thus, dimensionality gradient is the criterion we apply as to what determines the qualitative structure of space universes (for our space universe,  $\gamma_i(\Delta L) = 0,020203236\dots$ ). Only space universes derived **from three or more forms of matter** can fulfill the necessary conditions for the development of life and intelligence. In subsequent chapters, we shall explore further the conditions sufficient and necessary for the origin of life.

Now let us recall that restoration of the microcosm's initial dimensionality level occurs for the following reasons: the hybrid matter forms, which appear inside the six spheres of our planet as a result of their synthesis in the nonuniform macrospace, compensate for the space distortions created by the supernova explosion; also, at the same time, they increase the level of the microspace dimensionality within the volume they occupy.

Let us also recall that the lighter weight atoms, which minimally impact the microcosm, maintain their stability within the entire spectrum (1). They develop not only inside the planetary core, but in the atmosphere as well ([see Fig. 9](#)), whereas the heavier nuclei can maintain stability only within a very limited range of macrospace dimensionality ([see Fig. 10](#)).

Transuranium elements cannot exist in a stable condition for very long. When electromagnetic radiation is absorbed, the dimensionality of the absorbing atom is rendered critical or supercritical:

$$L_{\text{transuranium}} > 2.89915$$

As a result, such atoms disintegrate, creating medium-size nuclei and emitting a strong flow of particles and waves of **alpha**, **beta** and **gamma** radiation. This triggers a supernova explosion at the microcosmic level.

The cause of the explosion is identical in both cases -namely, the instability of the structure when it reaches the critical dimensionality level. The explosion aftermath is the same: the emission of matter and radiation, following which the system stabilizes. Within a space dimensionality of **L=3,00017**, none of the forms of matter in our universe can interact with one another in any way. It is of interest that all radiation known to modern science is depicted as transverse waves; these are the result of the microscopic fluctuations of space dimensionality:

$$\begin{aligned} 3,000095 < L_\lambda < 3,00017 \\ 0 < \Delta L_\lambda < 0,000075 \end{aligned} \quad (11)$$

The velocity of the wave propagation depends upon the self-dimensionality of the medium through which it travels. When radiation from the sun and stars penetrates the planetary atmosphere, the speed of propagation decreases since the dimensionality level of the atmosphere proper is less than that of open space:

$$\begin{aligned} 2.899075 < L_\lambda \text{ medium} < 2.89915 \\ 0 < \Delta L_\lambda \text{ medium} < 0.000075 \end{aligned} \quad (12)$$

In other words, the propagation velocity of transverse waves depends upon the **medium's self-dimensionality level**, which is usually designated as the medium's index of refraction ( **$n_{\text{med}}$** ). As the transverse waves spread through space, they perpetuate the microscopic disturbance of dimensionality  $\Delta L_\lambda \text{ med}$ . As they penetrate through various material substances, the  $\Delta L_\lambda \text{ med}$  overlap (create interference patterns) with the dimensionality level of these substances or their media.

Internal fluctuations of dimensionality, stemming from such interference (summation), serve as a catalyst for most of the processes occurring in physical matter. Since the atoms of the various elements have different dimensionality sub-levels, they cannot form new combinations ([see Fig. 12](#)).

But when the transverse waves spread through a medium, they cause microscopic disturbances of dimensionality, which neutralize differences in atomic dimensionality values ([see Fig. 13](#)). At the same time, the electron systems of these atoms unite, forming new chemical combinations.

We may liken atoms to floats on a watery surface. The transverse waves raise and lower them on their crests, changing the atom-floats' dimensionality level and creating the possibility for new combinations. The following parameters of transverse waves are crucial for synthesis: amplitude and wavelength ( $\lambda$ ).

Interaction can occur between the waves' and atoms' self-dimensionality only when the distance between the atoms approximates the wavelength. The impact of the same wave on the dimensionality level of other atoms would not be the same: one atom's dimensionality level may increase, while another's may decrease or remain the same. Therefore, interaction requires atoms to have similar dimensionality levels.

This is precisely what leads to the dimensionality balance required for the combining of atoms ([see Fig. 13](#)). If the wavelength significantly exceeds the distance between atoms, there is minimal or no change in the atoms' dimensionality gradient. Rather, there is a synchronous change in the self-dimensionality level of all the atoms, while the initial qualitative difference between the atomic dimensionality levels remains the same.

The amplitude of the waves determines the amount of change in space dimensionality caused by these waves as they pass through a particular medium. For the various atoms to exert different degrees of influence upon the medium, they must themselves have dimensionality levels that differ from one another. It is precisely the amplitude of the waves which serves this function during wave propagation. The distance between atoms in liquid as opposed to a solid medium lies within the range of  $10^{-10}$  to  $10^{-8}$  meters.

Consequently, a spectrum of waves from ultraviolet to infrared is absorbed and emitted during chemical reactions in a liquid medium. That is, in this new combination of atoms, absorption or emission of heat or visible light occurs (endo-or exothermic reactions) because only those waves meet the necessary conditions.

Thus, **transverse waves, ranging from infrared to gamma represent microscopic fluctuations of dimensionality** arising during nuclear and thermonuclear reactions. The amplitude of waves in a chemical reaction is determined by the difference between the dimensionality level of the atoms existing before the reaction and the dimensionality level of the molecules resulting after the reaction.

It is no accident that radiation emits packets — quanta.

**Every quantum of radiation** is a result of a **single process of atomic transformation**. Therefore, upon completion of this process, waves are no longer generated. Radiation emission occurs within a thousandth of a second and then ceases. Consequently, **radiation is also absorbed in quanta (packets)**.

In nature, there exist longitudinal waves of space dimensionality fluctuation. What are these waves and how do they manifest?

A powerful flow of radiation arises from thermonuclear reactions of the sun. The largest portion consists of waves in the visible spectrum. The upper layer of the planetary surface absorbs this solar emission as it reaches the planetary surface.

When photons of light are absorbed en masse by surface layer atoms in a given area, the dimensionality level of this layer increases by a specific value of  $\Delta L$ . This value corresponds to the amplitude of waves absorbed by the planetary surface layer (infrared, visible and ultraviolet solar radiation).

As a result, the dimensionality gradient between atmospheric and planetary surface levels in the absorption zone decreases by a value of  $\Delta L$ . Concomitantly, the night (non-illuminated) surface continues to have the same dimensionality gradient between the atmosphere and surface. **Thus a dimensionality gradient occurs between the lit and unlit surfaces of the planet. A horizontal**

**dimensionality gradient parallel to the planetary surface is created.** As a result, molecules forming in the ionosphere begin moving along this gradient, thereby creating an atmospheric movement of air masses. Let us examine the subject of gravity for a better grasp of this phenomenon.

What is gravity or gravitational force? Why does it exist and what is its nature, as a result of which objects drop down and do not fly up? What makes objects move in a certain direction? To clarify this, let us return to the process of planetary formation in a nonuniform zone of space created by a supernova explosion.

Consecutive merging of seven forms of matter in such a zone gives rise to the formation of six hybrid forms. In this process, space nonuniformity is neutralized. There is one peculiarity to be noted: hybrid matter differs in quality from the free matter which forms it. Therefore, free matter forms continue flowing through the nonuniform zone but, at the same time, no further hybrid matter is created.

Synthesis occurs only when the quantity of hybrid matter, for some reason or other, decreases. After the balance is restored, synthesis ends. The process is constantly perpetuated because our planet keeps losing matter due to nuclear reactions and partial loss of atmosphere. Not only comets -but also planets — have a gaseous tail. This is the cause of a planet's atmospheric loss.

When moving in a nonuniform zone, free forms of primary matter go from a higher to a lower dimensionality level. What is the consequence of this behavior? Because free matter forms react differently on one and the same gradient of dimensionality, turbulence occurs periodically in a non-uniformity zone.

**The turbulence of the fluxes and the spatial nonuniformity give rise to movement of the earth's crust and volcanic eruptions:** hence, the correlation between solar and tectonic activity of the planet. Solar storms lead to fluctuation in potential of the fluxes.

At the same time, qualitative barriers between the planetary levels have varying degrees of permeability to different matter fluxes. This leads to a disproportionate accumulation of free matter forms at these barriers, giving rise to inner turbulence, which induces tectonic activity.

Let us take as an illustration a cascade of six proportional ponds having the dimensions of a water reservoir. Each one is larger than its neighbor by one and the same value. As the upper-most reservoir is filled, water overflows and begins to fill the lower one which is twice the size of its upper neighbor. When the second fills up, the water overflows to the third and so on, until all six reservoirs are filled.

Even when all the reservoirs are filled, inflowing water will keep on moving and overflow to the next lower reservoir. At the same time, all reservoir levels will remain the same, but the water will create turbulence inside the reservoir. The incoming water will replenish the water evaporated from the reservoir surface. Such a system can go on indefinitely or, at least, for a long period of time. Increase in volume of the inflowing water will only lead to more turbulence inside these reservoirs.

Similar processes occur during formation of a planet and the origin of its life. Once the planet is formed, equalization of the dimensionality back to the initial level occurs. Free forms of matter continue to move inside the nonuniform zone from the maximum to the minimum dimensionality level.

This is due to the fact that for the **free forms of matter, nonuniformity of the space dimensionality zone continues to exist.** Similarly, the water filling the reservoir to the top continues to flow into it and circulate inside. The excess water simply overflows into the next reservoir.

The synthesis of hybrid matter resumes only when the planet starts to lose a portion of matter, in which case matter circulation occurs in a space zone of nonuniform dimensionality ([see Fig.14](#)). **The streams of free matter fluxes flow from the level of the highest to the lowest dimensionality.**

Also, at the level of the qualitative barriers a density gradient of the free matter forms devel-

ops. This is related to the fact that free matter responds differently when space dimensionality changes.

**Thus, the space dimensionality gradient is the determining factor of gravity.** Every free atom or molecule tends to **a state of maximum stability**. The definitive dimensionality level expressed by spectrum (1) corresponds to this state. Whenever the dimensionality level of an atom or molecule differs from the optimum one, a force arises which restores it to a stable state.

The pendulum is an excellent example of this process. Its oscillation away from a state of stable equilibrium generates the force which returns it to this state. But what force is it that moves atoms and molecules to the stable dimensionality level? By way of illustration, if we place floating balls of various size and weight into currents circulating in a pond, the currents will bring them to the levels corresponding to their own density.

Likewise, free matter propels atoms and molecules as it moves from higher to lower dimensionality levels. When such free-matter streams carry them from these higher to lower levels, this also generates the force that returns them to the levels of equilibrium. This is related to the creation of a dimensionality gradient  $\pm\Delta\mathbf{L}$  commensurate with the level of stable equilibrium.

**The dimensionality level of an atom or molecule proper changes only when electromagnetic radiation is absorbed.** In this process it acquires a new balanced dimensionality level of:

$$\mathbf{L}_{a1} = \mathbf{L}_a + \Delta\mathbf{L}_\lambda \quad (13)$$

This is critical for grasping a whole array of natural phenomena, such as atmospheric electrical charge, tectonic activity, the dependence of a qualitative barrier's thickness upon the time of day, etc... Let us explore these phenomena in more detail, since all of them are pivotal for the genesis of life on earth.

Let us start with atmospheric electrical charges. What is their nature and how are they generated? Their existence is a **necessary condition** for the genesis of life. Without them life could not originate on our planet. Therefore insight into their nature gives us the key to understanding how life originates both on our planet and on billions of other planets in the universe.

As we have already observed, free matter reacts in various ways to dimensionality change: For example, atmospheric molecules on the sunlit surface of the planet absorb solar radiation, thereby increasing their dimensionality level — see equation (2). The net effect is to totally change the overall dimensionality level of the sunlit area by a specific value of  $\Delta\mathbf{L}$ .

As a result, the thickness of the qualitative barrier between the physical and etheric spheres changes. Free matter begins to accumulate at the level of the barrier. This occurs because of a drop in permeability between the free matter barrier and the more powerful interlevel barrier. Excessive concentration of free matter keeps increasing as long as there is a changed dimensionality on the sunlit territory.

Another equally important process occurs parallel to this. **The lit territory on its own undergoes an increase in its dimensionality level while the dark terrain continues to have a balanced dimensionality level.** This creates a gradient between the dimensionality levels of the lit and dark areas, which is directed along the planetary surface.

This leads to the movement of free matter parallel to the planetary surface, starting from the zone of **higher dimensionality level** (lit surface) to the zone of **lower dimensionality** (dark surface). In this process, gravitational force decreases as a result of the creation of a second stream of free-matter movement parallel to the surface. A drop in atmospheric pressure thus develops, as well as a decrease in the gravitational force. ([See Fig. 15](#)).

Atmospheric molecules do not bond into rigid (solid state) matter or semi-rigid (liquid) matter systems. Therefore, the dimensionality gradient along the surface causes the free-matter stream to carry along atmosphere-forming molecules. **Air masses start moving. Wind is generated.**

In the process, "heated" molecules (i.e., molecules that have absorbed solar radiation) move onto the dark areas. There they spontaneously emit waves because their dimensionality level is

higher than that of the dark surface's atmosphere. This gradient triggers the spontaneous emission by molecules.

The "cold" molecules have a self-dimensionality level that is lower than that of the daylight areas. This induces absorption of solar radiation and thermal radiation of the sunlit surface en masse. A gradual leveling ensues between the dimensionality level of the sunlit surface and that of the molecules.

Since the dimensionality level of the "cold" (unheated) molecules is substantially different from that of the sunlit area, it subsequently drops. When the level of sunlit territory falls to the level of the so-called "dew point", water molecules change from a gaseous to a liquid state and dew is produced.

If this occurs at a level of high cloudiness, the droplet-forming process becomes a chain reaction and rainfall ensues. Following this process, the condition of the qualitative barrier between physical and etheric spheres reverts to normal. When these events happen rapidly the free matter pooled at the qualitative barrier level plummets like an avalanche. An atmospheric electrical charge — **lightning** — appears.

An analogy of this process would be the state of a river dam with all the gate valves open and all the pooled water flowing out at the same time.

The periodic succession of night and day renders all of the above regular and natural as planets having atmosphere, water and such periodicity evolve. The length of the planetary day is a very important parameter; it is determined by the size of the planet and the speed of rotation on its axis.

Most favorable for the origin of life and vegetation is a day length within the range of 18-48 earth hours. Planets with shorter days do not attain the necessary level of active movement of atmospheric masses and charges of atmospheric electricity. Genesis of organic life is impossible without them.

A prolonged planetary day (upwards of 48 earth hours) leads to a constant stormy atmosphere, which makes conditions for the origin and development of life highly problematical. Life can arise on such planets only when the intensity of stellar radiation drops to a certain level, such that the sunlit surface no longer overheats and conditions for the origin of life are met. Usually these conditions appear at the last stage of stellar evolution. And even when life does appear, it cannot develop to a complex level before the star perishes. So, the **origin of life** on planets is a **regular and natural evolutionary stage of solar systems. Life on our planet could not help but be born.**

## Chapter 2. Living matter: how life arose in space

The origin of life on Earth has always been an enigma. Since ancient times, philosophers and scientists have sought to find the answer. Myriad theories and hypotheses emerged about the nature of living matter, all of them based on postulates without empirical proof.

More and more assumptions were brought forth to sustain the viability of these theories. Currently all our existing "scientific" theories are based on dozens and sometimes hundreds of postulates. Modern physics exemplifies this. Information which mankind amassed by the end of the twentieth century renders these theories completely **inconsistent**.

Discoveries in the field of nuclear physics, divulged in the last quarter of the twentieth century, undermined the bedrock of modern physics. Its fundamental law — **the Law of Conservation of Matter** — was seemingly nullified by the experimental findings of modern physicists. The essence of this postulate is that **matter can neither be created nor destroyed**.

When applied to particle synthesis occurring in the course of a nuclear reaction, the law may be expressed as follows:

$$m_1 + m_2 \geq m_3 \quad (1)$$

According to this, the particles' mass, generated by the synthesis, should be equal to or less than the total mass of particles from which it was created. Nuclear physicists are still reeling from the shock of such experimental results.

Their dilemma is "merely" the fact that, in some experiments, the mass of particles generated sometimes greatly exceeds the mass of particles from which it was created:

$$m_1 + m_2 \ll m_3 \quad (2)$$

And experiments on real instruments yield empirical results that seem fantastic: matter appears to arise from nowhere! And such results deviate from the Law far beyond the permissible range of probability — despite the high degree of instrumental accuracy (allowable error of 5%).

Therefore, in cases where the results obtained differ markedly from the expected results, instrumental error is of no significance. The fact is that scientists **have no explanation whatsoever for the above dilemma and cannot possibly come up with one**. The phenomena they observed visually or instrumentally are indeed **manifestations of the real laws of nature**. But **true natural law evolves and operates at microcosmic and macrocosmic levels**.

Everything that touches man in his lifetime **lies between microcosm and macrocosm**. So when man, aided by instruments, got his first glimpse of the microcosmic world, he was empowered — for the first time — to make direct contact **with nature's laws** rather than just **their manifestation**. Matter did not appear out of nowhere. The explanation is at once far more simple and far more complicated than that. What man **knows about matter** and what he regards as **a complete and absolute body of knowledge** is merely a fraction of what is real.

Indeed, matter does not emerge from nor disappear into nowhere. The Law of Conservation of Matter really does exist — but in a form far different than what people perceive...

So, existing scientific theories based on postulates turned out to be abortive and failed to provide any kind of logical or orderly explanation. "Ideal" theory we may define as theory based on one or more postulates. An example is **the theory of the divine origin of all creation**:

*"In the beginning God created the heaven and the earth.*

*And the earth was without form, and void; and darkness was upon the face of the deep the Spirit of God moved upon the face of the waters.*

*And God said, Let there be light: and there was light.*

*And God saw the light, that it was good; and God divided the light from the darkness.*

*And God called the light Day, and the darkness he called Night. And the evening and the morning were the first day.*

*And God said, Let there be a firmament in the midst of the waters, and let it divide the waters from the waters.*

*And God made the firmament, and divided the waters which were under the firmament from the waters which were above the firmament; and it was so.*

*And God called the firmament Heaven. And the evening and the morning were the second day.*

*And God said, Let the waters under the heaven be gathered together unto one place, and let the dry land appear; and it was so.*

*And God called the dry land Earth; and the gathering together of the waters called he Seas; and God saw that it was good.*

*And God said, Let the earth bring forth grass, and herb yielding seed after his kind, and the fruit tree yielding fruit after his kind, whose seed is in itself, upon the earth; and it was so.*

*And the earth brought forth grass, and herb yielding seed after his kind, and the tree yielding fruit, whose seed was in itself, after his kind; and God saw that it was good.*

*And the evening and the morning were the third day.*

*And God said, Let there be lights in the firmament of the heaven to divide the day from the night; and let them be for signs, and for seasons, and for days and years;*

*And let them be for lights in the firmament of the heaven to give light upon the earth; and it was so.*

*And God made two great lights; the greater light to rule the day, and the lesser light to rule the night; he made the stars also.*

*And God set them in the firmament of the heaven to give light upon the earth.*

*And to rule over the day and over the night, and to divide the light from the darkness; and God saw that it was good.*

*And the evening and the morning were the fourth day.*

*And God said, Let the waters bring forth abundantly the moving creature that hath life, and fowl that may fly above the earth in the open firmament of heaven.*

*And God created great whales, and every living creature that moveth, which the waters brought forth abundantly, after their kind, and every winged fowl after his kind; and God saw that it was good.*

*And God blessed them, saying, Be fruitful and multiply, and fill the waters in the seas, and let fowl multiply in the earth.*

*And the evening and the morning were the fifth day.*

*And God said, Let the earth bring forth the living creature after his kind, cattle, and creeping thing, and beast of the earth after his kind; and it was so.*

*And God made the beast of the earth after his kind, and cattle after their kind, and everything that creepeth upon the earth after his kind; and God saw that it was good.*

*And God said, Let us make man in our image, after our likeness; and let them have dominion over the fish of the sea, and over the fowl of the air, and over the cattle, and over all the earth, and over every creeping thing that creepeth upon the earth.*

*So God created man in his own image, in the image of God created he him; male and female created he them.*

*And God blessed them, and God said unto them, Be fruitful and multiply, and replenish the earth and subdue it; and have dominion over the fish of the sea, and over the fowl of the air, and over every living thing that moveth upon the earth.*

*And God said, Behold, I have given you every herb bearing seed, which is upon the face of all the earth, and every tree, in the which is the fruit of a tree yielding seed; to you it shall be for meat.*

*And to every beast of the earth, and to every fowl of the air, and to every thing that creepeth upon the earth, wherein there is life, I have given every green herb for meat: and it was so.*

*And God saw every thing that he had made, and behold, it was very good. And the evening and the morning were the sixth day.*

*Thus the heavens and the earth were finished, and all the host of them.*

*And on the seventh day God ended his work which he had made; and he rested on the seventh day from all his work which he had made."*<sup>6</sup>

Is this not an ideal theory? There is only one postulate — **almighty God**, not explained, but taken for granted. All the rest is the fruit of God's creative labor. As a logical theory it is flawless — a closed system that has no basis in reality. In fact, **their key to understanding the universe becomes, at the same time, the padlock, the obstacle, to this understanding** — a closed circle with neither beginning nor end.

But I doubt that such an "ideal theory" can satisfy anyone who truly wants to know the surrounding world. Oddly enough, most scientists desirous of such knowledge fail to avoid the pitfalls of this ideal theory of God. Everyone accepts the doctrine that **God created man in his own, so that man is a copy of God himself..**

It is gratifying for man to think of himself as the likeness of the deity — a godly image — who, accordingly, possesses the ultimate and all-possible knowledge of his surrounding world. And, further, that his sensory organs represent the peak evolution of living matter. Otherwise, how can he explain the fact that scientists give validity only to what they can feel or touch with their own hands?

Of course it is understandable that man tries to comprehend only what his senses perceive. But we should always bear in mind that this is not **the pinnacle of knowledge** but only **the first step toward the evolution of Mind**.

And we must try to **broaden and amplify** the weak trickles of information seeping through the sensory organs into **the human brain**. We must develop ourselves and our brain until these meager trickles swell into powerful torrents. Then will nature surrender a multitude of secrets to the evolved Mind.

Until then, let us undertake **the first steps on the path of Mind**.

Accordingly, let us explore the conditions needed for life to arise on our planet. There are several:

**1. The presence of a constant dimensionality gradient  $\zeta$**  coupled with another parameter, the space quantization index,  $\gamma_i$ . (The latter determines the quantity of primary matters of a given kind which are capable of merging within this parameter). The value of the constant dimensionality gradient and the space quantization index together determine the evolutionary potential of the possible emergent life forms.

Further, the multiples of their values can tell us how many levels (and therefore how many qualitative barriers) can arise within this dimensionality gradient. The number of the barriers created determines the qualitative variety of the possible life forms, including the potential for the creation and evolution of intelligence.

**2. The presence of water.** Water is the basis of organic life on our planet. There are, of course, other forms of life that are not protein-based. But, to begin with, let us explore the orderly origin of protein-based life forms. First we must understand what is going on in our own domicile before exploring others' abodes.

**3. The presence of an atmosphere.** The atmosphere is the most dynamic and active part of the planet. It instantaneously and abruptly reacts to changes in the environment -which is crucial for the origin of life. The presence of oxygen and carbon dioxide signifies the existence of protein life on a planet. The atmosphere should be neither too dense nor too rarefied. If too dense, stellar radia-

---

<sup>6</sup> Gen., 1:1-31; 2:1-2, King James Version.

tion fails to reach and warm the planetary surface. At the same time, the lower atmospheric layers do not absorb the stellar radiation or the thermal radiation of the planet's surface layers.

As a result, there is **no dimensionality gradient** between the daytime and nighttime surfaces of the planet. Consequently, there is **no movement of atmospheric masses** in the lower layers of the atmosphere. In the absence of a dimensionality gradient, **atmospheric charges do not appear** along the planetary surface.

In a highly rarefied atmosphere, the lower layers are able to absorb the stellar radiation and the thermal radiation of the planet's surface layers. However, because of the extreme rarefaction there is no movement of atmospheric masses.

As we know, an atmosphere's dimensionality and density are determined by the planet's size and mass. Therefore, only planets **comparable** to Earth in size and mass have maximally favorable conditions for the origin of protein life. The atmosphere should be **neither too "heavy" nor too "light"**.

**4. The presence of a periodic succession of day and night.** Planetary days should be neither very short nor very long. Planets having days within the range of 18 - 48 earth hours' duration are most conducive to the origin of life. The reason is that, during daylight hours, the **dimensionality level** of the sunlit area **increases**, due to absorption of the stellar and thermal surface radiation. Concomitantly, the atmosphere's dimensionality level on the dark side of the planet remains the same or even drops.

This drop is due to a cooling off process as the molecules in the atmosphere emit thermal radiation. This creates a **dimensionality gradient** between daytime and nighttime surfaces of the planet. When the dimensionality gradient reaches a certain level, **a movement of the lower atmospheric layers develops** along the gradient area.

If a planetary day is short in duration, the dimensionality gradient does not attain the level for significant movement of masses of the planet's lower atmospheric layers. By contrast, a lengthy planetary day evokes gradients so huge that powerful atmospheric storms and hurricanes result.

This destroys the planet's surface layer and precludes the development of planetary flora. Concomitantly, the stormy state of the atmosphere generates powerful movements of the ocean's surface layers, rendering the origin of life in water impossible.

**5. The presence of atmospheric electrical discharges.** During atmospheric electrical activity, **a synthesis of organic molecules** occurs in sea water. An additional space curvature, causing a change in the dimensionality level, forms in the discharge zone. As a result, inorganic compound molecules dissolved in the water combine with one another in a totally new order.

Only the very powerful electrical discharges are capable of creating the necessary conditions at which a dimensionality level reaches a critical value. Chains of uniform atoms constitute organic compounds. The latter possess two vacant electron bonds on each atom, capable of bonding to free ions and other molecular chains.

Atmospheric electrical discharges develop as a result of the differential in thickness of the qualitative barriers between physical and etheric planetary levels. When, at night, the Earth is enshrouded in darkness, the surface layer of the planet begins to cool down and emit thermal waves. And, as is the case with any type of radioactivity, the dimensionality level of the radiating atoms or molecules decreases.

When this occurs, with trillions upon trillions of atoms and molecules confined in a given area (the daytime sunlit surface), the entire area undergoes a rise in dimensionality level. And if the atmosphere and planetary surface, which were strongly heated by day, experience a sharp temperature decrease at night, **the dimensionality level drops**.

Concomitantly, the free matter amassed in the qualitative barrier level plummets like an avalanche, and an electrical discharge between the atmosphere and planetary surface ensues. (See Ch. 1, for a more detailed account of these processes and the conditions necessary for the origin of life).

In sum, **the absolute requisites** for the origin of life on planets are the following:

- **presence of a constant dimensionality gradient;**
- **water;**
- **atmosphere;**
- **periodic succession of day and night;**
- **atmospheric electrical discharges.**

**Life is automatically generated on all planets meeting these conditions.** There are **billions** of such planets in the universe. Our planet Earth is not a unique creation of nature. Billions of civilizations exist in the universe, giving rise to both human and **other forms of intelligent life**.

The humanoid form of intelligent life is the most widespread in the universe. This is related to the fact that intelligence arises only at certain evolutionary stages of an ecological system. Each ecological niche has certain requirements as to the species which occupies it. They are — the size and form of the living organism, the quantity and quality of the food supply and certain regulations regarding the life process. Only those organisms conforming to these requirements survive in the course of evolution.

Once an ecological system is complete, new species continue to develop as a result of their capacity to mutate. The new species, if better adapted to the ecological niche than the species already in residence, are able to evict the "owners" from their habitat. Thus, it is only **at a certain level of development of the ecological system** that we may speak of the emergence of intelligence.

Additionally, species predisposed to the development of intelligence are able to occupy **one or several** — often very close — **ecological niches**. That is why most civilizations in the universe are of the humanoid type. (This will be detailed in subsequent chapters). The origin of life on our planet is a natural process — it would be foolish indeed to shut our eyes to so obvious a fact.

Earthmen hide their fear that myriad other civilizations exist in the universe by cloaking it in the illusion of their own uniqueness. Acknowledging the presence of other life forms and civilizations leaves no room for seeing themselves as "**special**" or "**God-like**" either individually or collectively. Rather, man must accept the responsibility for what he does to nature or to himself. Invoking uniqueness allows him to disregard the many crimes and errors of humanity as a whole, as well as those of separate nations and individuals. Pleading inexperience is just an excuse for all of this.

More of this later. But, for now, let us return to how life emerged and developed when the **basic requirements**, detailed above, were met. As we all know, the sea is the cradle of life — containing virtually all the chemical elements and compounds needed for its creation. Further, during atmospheric electrical discharge, the deformation of space occurs. Water struck by these lightning discharges triggers a dimensionality level enabling four-valence elements (such as carbon, silicone and phosphorous) to begin forming chains.

When this occurs, the resulting molecules acquire not only structural differences but new qualities as well. What are these new qualities that appear when atoms take on a different structural order? How do we differentiate between atoms of a given structural arrangement and the same atoms forming a different structural arrangement? Why are compounds **organic** under certain conditions and **inorganic** under others?

Let us try to imagine the consequence of these **structural differences** in the molecule. Let us start with inorganic structural formation — **crystals**. These are spatial combinations in which atoms are located at equal intervals from each other. These intervals are equivalent in size to the size of the atoms themselves ( $10^{-14} \dots 10^{-12}$  m). They are virtually identical in every spatial direction (e.g., diamonds), or identical in every spatial plane (e.g., graphite). Crystals are composed of **carbon atoms (C)** but are not the basis of either living organisms or organic molecules ([Fig. 16](#), [Fig. 17](#)).

Why then, we may wonder, do these same carbon atoms, when combined in a different spatial order, become the basis of living nature? The answer is — they do so because of the following dis-

tinctive qualities of organic molecules (see [Fig. 18](#), [Fig.19](#)):

1. **The spatial distribution of organic molecules is nonuniform in the different spatial directions.**

2. The molecular weight of organic molecules ranges from **several dozen** to **several million** atomic units.

3. The distribution of their molecular weight is also nonuniform **in the different spatial directions**. As a result of these distinctive qualities, the organic molecules impact their surrounding space differently in the various spatial directions. **DNA** and **RNA** molecules most conspicuously manifest this phenomenon (see [Fig. 20](#), [Fig 21](#)).

The atoms comprising these molecules create long chains curled into spirals. It is precisely the spiral spatial form of these **RNA** and **DNA** molecules that create the qualities crucial for the existence of **LIVING MATTER**. What are these **ESSENTIAL QUALITIES** that give rise to the miracle of life? What permits us to speak of a new evolutionary stage of living matter — the evolution of life itself? Let us try to fathom this miracle that is the wellspring of all living life...

A special quality of the **RNA** and **DNA** molecules is that the inner space of their spiral forms a distinctive tunnel. The spiral molecule has a significant impact on the dimensionality level of the tunnel's microspace. At the same time, this impact on the inner volume of the tunnel is **UNEQUAL** in the different spatial directions (see [Fig. 22](#)). Let us keep in mind that every atom influences its surrounding microspace.

Atomic compounds have a cumulative impact from all their constituent atoms upon the microspace dimensionality of their molecules. At the same time, the spatial orientation of each atom forming the compound is also significant. The spiral structure of the **RNA** and **DNA** molecules creates the conditions whereby the major influence from most of the constituent atoms is concentrated inside the inner spiral volume of the molecules.

The dimensionality change of the **RNA/DNA** spiral's outer space is insignificant. However, it is important to note that the dimensionality change of its inner space is nonuniform in various directions.

The turns of the spiral create periodically repetitive dimensionality gradients (see [Fig. 22](#)). The gradients in the inner space create a **standing dimensionality wave**, the parameters of which do not change either in time or space. The molecular spiral of the **DNA** and **RNA** creates a gradual rise and fall in dimensionality in the radial directions — that is, a kind of up and down "roller coaster" effect (see [Fig. 23](#), [Fig. 24](#)).

It is precisely the standing dimensionality wave created by the **DNA/RNA** spiral molecular structure that provides the **CONDITIONS SUFFICIENT** for the origin of life. Let us try to clarify why this is so.

**RNA** and **DNA** molecules are in a watery medium. Sea water, which is the primary cradle of life, contains a huge amount of molecules and ions of both organic and inorganic origin. They are in constant chaotic motion as a consequence of which ions and molecules periodically enter the inner space of the **RNA/DNA** spiral.

**And the miracle of life is consummated...!**

The key to this miracle is very simple: the inner spiral space of the **RNA** or **DNA** molecule constitutes a trap for all the molecules entering into it. The radial dimensionality gradient holds the entrapped molecules inside the **RNA/DNA** spiral. At the same time, the radial dimensionality gradient causes free matter to move along it. This results in the generation of gravitational forces directed toward the axis of the **RNA/DNA** spiral (see [Fig. 23](#)).

Therefore, all the molecules propelled by Brownian movement into the inner spiral space begin to move **along the spiral's axis**. Just as a river current sweeps up whatever gets into it, the radial gradient carries away the entrapped molecules. Only the fastest molecules break away from the trap, thereby undergoing a partial loss of their potential. All the other molecules **begin moving**

**along the spiral's axis.**

The **RNA** or **DNA** spiral creates a **standing wave of dimensionality gradient along the axis**. The entrapped molecules, during their forced movement along the axis, enter zones of varying dimensionality levels. Every molecule has **its own self-dimensionality level** at which it is **maximally stable**. Also, there is a dimensionality value range within which a molecule can exist **without disintegrating**.

As soon as the trapped molecules moving along the axis enter a zone of marginal dimensionality, **they become unstable and begin to disintegrate** (see [Fig. 23](#)). All seven primary matters, constituting physically solid substance, are released as a result of this molecular disintegration.

Part of the free matter **recreates new atoms and molecules**, possessing **their own dimensionality level equal to the dimensionality of the disintegration zone**. Generally, newly created molecules do not disintegrate during their forced movement along the axis. Upon leaving the **RNA** or **DNA**'s inner spiral space, they end up in a watery medium (see [Fig. 24](#)).

They are often chemically active and consequently inimical toward **RNA/DNA** molecules as well as other interior cell formations. To anticipate a bit, let us note that these molecules, which we shall later dub "**toxins**" or **slag**, are expelled from cells and organisms (i.e., multicellular organisms).

But let us resume our analysis of the processes developing within the inner **RNA/DNA** spiral space...

As we have seen, part of the freed primary matter forms stable atoms and molecules. But what happens to the rest? At this point of our exploration, we approach **an understanding of the mystery of life**.

Free matter begins flowing to other levels through a channel **between the physical and etheric planetary spheres** which is created within the **RNA/DNA** spiral space. Let us recall that every molecule — especially such huge ones as **RNA** or **DNA** — **deforms its surrounding micro-space**. At the same time, **it also deforms the etheric level** of the planet.

The shape of the deformation completely copies the molecular forms of the **RNA** or **DNA**, as well as that of all the other molecules. It is like what happens to a pothole in the road that fills with water during a rainstorm. If the rain persists, it gets completely filled to overflowing and the excess water drains onto the low-lying terrain.

Similarly, free matter, flowing onto the etheric level, completely fills in the deformation "pot-hole". The excess matter breaks free from its planetary captivity. The main question here is — **what types of free matter are involved in the process** and why do they fill up this deformity on the etheric level?

To answer this question — let us recall that the etheric sphere (level) was formed from the merge of six free primary matter forms (**ABCDEF**). Therefore the etheric deformation ("pot-hole") gets filled **only with G**, the seventh primary matter, which is the only one lacking in the composition of the etheric sphere, the six-matter hybrid.

Once the deformity of the etheric sphere is filled with **G** matter, **an exact replica of the RNA or DNA molecule is created**.

Thus the so-called **etheric body** of the **RNA** or **DNA** molecule is formed (see [Fig. 25](#), section 2). As soon as the etheric body is complete, the qualitative barrier between it, the etheric sphere and the physical sphere disappears. This is because the system — **etheric body plus etheric sphere - corresponds to physical matter in structure and quality**.

A permanent channel is created between the **physically solid molecule** and the **etheric body** of the **RNA** or **DNA** molecule. Unbound ("freed up") matter continues to flow into the etheric and other planetary spheres through this channel. If the molecules trapped inside the inner spiral space of the **RNA** or **DNA** cease disintegrating, the molecular etheric body **either totally disappears or loses its optimum density**.

It is similar to a puddle on the road — if it does not rain for a while, all the water evaporates and only a pothole remains.

And so, the **constant disintegration** of molecules "trapped" within the RNA/DNA's inner spiral space is an **absolute requisite for the origin of life**.

The emergence of an **etheric body** is a qualitatively **new stage in the evolution of matter**. Imprisoned matter had found a way to get free from captivity. **This is the way of living matter**: emergence of an etheric body marks the first step in the evolution of free matter. We may only speak of complete liberation on an evolutionary level when physically solid living matter evolves all six spiritual bodies.

**The spirit (or soul) comprises a system of bodies which living matter evolves in the process of adapting to the environment**. By truly understanding the spirit, we hold the key to grasping a host of natural phenomena — conception, death, transformation, clinical death, multiple personality, psychic dysfunction and many others. Each body of the spirit is a **structural copy** of the physical body on a corresponding planetary level.

**Complementary relationship between number of primary matters in Earth planetary spheres and human spiritual bodies:**

Earth: Qualitative Spheres	Number and Type Of Primary Matters	Man: Spiritual Bodies	Number and Type Of Primary Matters	Complementary Relationship
Physically Solid	7 (ABCDEFGG)	Physically Solid	7 (ABCDEFGG)	—
Etheric	6 (ABCDEF)	Etheric	1 (G)	6 + 1 = 7
Astral	5 (ABCDE)	Astral	2 (GF)	5 + 2 = 7
First Mental	4 (ABCD)	First Mental	3 (GFE)	4 + 3 = 7
Second Mental	3 (ABC)	Second Mental	4 (GFED)	3 + 4 = 7
Third Mental	2 (AB)	Third Mental	5 (GFEDC)	2 + 5 = 7
(Not a sphere)	1 (A)	Fourth Mental	6 (GFEDCB)	1 + 6 = 7

Spiritual bodies have a **qualitative** structure according to the differing quantities of primary matter forms. The number of matter forms comprising each spiritual body is determined by the qualitative structure of the planetary sphere on which the body is formed.

The smaller the number of matter forms that merged to form a given planetary sphere, the larger the number of matter forms making up the spiritual body on that level. The law governing this process is simple: seven primary matters make up everything in our universe. The physical sphere resulted from the merge of all seven primary matters, while the astral sphere, for example, was created out of five matter forms.

Thus, a qualitative difference of two primary matters creates a barrier between the physical and astral spheres. When a channel develops between them, an astral body begins to **form from the only two primary matters lacking in the composition of the hybrid astral sphere**. It is only when a living organism, in the course of evolution, develops **an astral body from the two primary matters which the astral sphere lacks that this qualitative barrier disappears** (5+2=7).

At the same time, the astral body's density should be compatible with that of the matter forming the astral sphere. A similar process occurs on all the other planetary spheres. **Thus a complete first mental body is composed of three primary matters (4+3=7); a complete second mental body out of four primary matters (3+4=7); a complete third mental body out of five primary matters (2+5=7); a complete fourth mental body out of six primary matters (1+6=7)**.

It is only on completion of the planetary evolutionary cycle that **all the planetary qualitative barriers** disappear. The only question is — what living organisms are capable of attaining such a qualitative evolution? The answer to this question lies at the very inception of life's origin.

**The true moment of life's beginning** is marked by the formation of the **RNA's** etheric body, for the following reasons:

1. In a watery environment, a virus (i.e., an **RNA** molecule with a protein membrane) creates a stable etheric body and triggers a continuous disintegration of "trapped" molecules.
2. The process of replication of the **RNA** molecule and its protein membrane starts with the accumulation of the requisite amount of nucleotides.

It is precisely the ability to **reproduce** that warrants considering the virus to be the first living organism (see Ch. 2, *op. cit.*). The next stage in the evolution of living matter is the emergence of monocellular organisms. Their advantage over the virus is their multilayered cellular membrane, which creates a stable chemical environment inside the cell.

Additionally, the cellular membrane serves as a **defense** against a hostile external environment, thereby creating favorable conditions for the further evolution of life. Movement of the primal ocean's upper layers exposed the same types of monocellular organisms to many different kinds of external conditions, which impelled them either to **change** or **die**.

A diverse array of **animal and vegetable** one-celled creatures arose from exposure to a variety of environments. A **primitive ecological system** began to be formed. Their locomotor ability boosted evolution and led them to acquire a certain independence from the vicissitudes of the outside milieu.

The next evolutionary leap came when one-celled organisms joined into a single aggregate by uniting the appendages of their cellular membranes (e.g., Volvox). Union of these aggregates provided the next impetus in the evolution of life. Temporary unions developed into **permanent symbioses** of monocellular organisms.

Henceforth, one could speak of the advent and existence of multicellular creatures. Peripheral cells of multicellular aggregates were often exposed to the activity of a hostile external environment, while concomitantly, the underlying cells were flanked and buffered by still other cells. This, in turn, led to **differentiation in cellular function** and appearance. As a result, the cells of these organisms began performing **a variety of different functions and taking on a diverse appearance**. (For a more detailed account, see Ch.2, *op. cit.*).

As evolution progressed, new types of multicellular organisms emerged and older ones disappeared. More highly developed ecosystems helped transform the simpler life forms. In time, the living abandoned its cradle, the sea, and began to inhabit the land. But all this was transpiring on the physical level of planet Earth. How then, did these evolutionary processes manifest on other planetary levels?

Let us recall that **RNA** and **DNA** create their exact replica on the etheric sphere from the same primary matter existing on the physical level. This copy constitutes the so-called etheric body of the molecule. A one-celled organism (i.e., a cell) typically contains a whole array of organic inclusions -Golgi apparatus, mitochondria, centrioles, endoplasmic reticulum, etc., as well as organic and inorganic molecules. The latter participate in the intracellular biochemical reactions. Additionally, the **DNA** molecules also contain chromosomes produced by the cellular nucleus.

It should be noted that only the **DNA** and **RNA** molecules, and the RNA mitochondria, are capable of opening a qualitative barrier between the physical and etheric levels. All other inclusions, while capable of influencing (i.e., deforming and curving) their surrounding microspace, cannot open that barrier.

However, all these deformations together create an exact replica of the physical cell on the etheric level (see [Fig. 26](#)). Just as muddy areas on wet terrain acquire a footprint when trod upon, so the etheric body of the cell exactly duplicates the physical cell. The only difference is that the etheric body is formed from **one primary matter**, while physical substance derives from the synthesis of

**seven primary matters.**

And so the following system is formed: **physical cell body — etheric cell body**. At the same time, the physically dense matter inside the physical cell is constantly disintegrating: the primary matter becomes freed up and starts circulating through the channel between the levels created by the cellular nucleus. This gives rise to a protective cover around the cell (see [Fig. 27](#)).

How is this **protective cover** created from the primary matter circulating through the channel? What natural or divine forces take care to protect all living creatures?

Regrettably, for many, there is no divine source here. As usual, everything is at once both very simple and very complicated.

The cellular nuclei, which produce chromosomes, also deform the surrounding microspace, thereby increasing its dimensionality in the deformation zone. As primary matter is freed up through disintegration, it begins to flow through the channels, created by the cellular nuclei, from the physical to the etheric levels, to the astral...etc. levels. The primary matter flows in a direction **opposite** to the main flow of primary matter in macrospace.

Therefore, the primary matter ejected through the cellular channel is oppositely deflected by the incoming counter-flows of macrospace primary matter. It is similar to the process occurring in fountains. A stream of water ejected under pressure rises to a certain level. After exhausting its initial potential, it drops down, creating a characteristic dome of water. Likewise, primary matter, ejected through the cellular nucleus channel is repelled by counterflows. This movement occurs along the microspace curvature zone. Upon reaching the physical level, the counterflows return to the cellular nucleus, at the same time duplicating the form of the microspace curvature. As a result, the primary matter creates an isolated zone around the physical and etheric cell bodies (see [Fig. 27](#)).

A special microclimate is created inside the protective cover. Once the latter is completely formed, the general flow of primary matter simply bends around this zone. A microscopic oasis emerges around the cell. The etheric body of the cell is maximally isolated within this oasis, both from the chaos of the external environment and the impact of other cells and organisms.

This protective, insulating cover will exist as long as disintegration of substances takes place inside the cell and as long as channels exist between the cellular levels. In other words — as long as the cell is alive.

In multicellular organisms, cells have specialized functions and, as a result, acquire diverse forms. Every multicellular organism is a fixed colony — that is, each of its components has a permanent, fixed position in its structure. The outer system of cellular fixation is created along with other cells of the same organism. This stable structural position of the cells is maintained throughout their entire life. (Blood cells are an exception).

Let us remember that every living cell creates an etheric body — which represents its structural replica. In a structurally stable colony, since cellular position is fixed, the etheric bodies also have a fixed position: hence etheric bodies of cells form an analogous fixed system — the **etheric body of the multicellular organism**.

As the multicellular life forms evolved, their cellular specialization led not only to a totally different appearance, but additionally their impact on the microcosm triggered some essential qualitative changes. Thus, microscopic deformation caused by the diverse types of cells reached the **astral planetary level**.

Concomitantly, exact replicas of physical cells, with all their peculiarities, were being formed at the astral level, in a manner similar to what transpired on the etheric level. Let us designate them the astral bodies of the physical cells. They differ from etheric cell bodies not only in their position on the next qualitative level of the planet but also in their qualitative content.

Full astral bodies are formed by the synthesis of two primary matters (see [Fig. 28](#)). The astral cell bodies of multi-celled organisms also form a fixed system — **the organism's astral body**. The appearance of astral bodies in living organisms marks a **gigantic leap in the evolution of living nature**. The presence of three interacting levels inside the cells created the sufficient and necessary

conditions for the emergence of memory, emotions and intellect. Such is the basis for highly organized living matter.

In certain multicelled organisms, some types of cells adapted so well to the performance of their functions that the resulting microspace deformation **reached the first mental level of the planet**. These are the cells of brain, bone marrow and spinal cord. Similarly, **a multicelled creature's first mental body** is created at this level from the mental bodies of the organism's cells (see [Fig. 29](#)).

In sum, all the cells of the physical organism participate in the creation of the **etheric body**. As for the **astral body**, a majority of cells do so. **Mental bodies**, however, can appear only in certain types of living creatures and only at a certain developmental level. It is only a portion of cells that can play a role in the creation of a **mental body**. Thus, the mental body shares basic qualities with, as well as external differences from, the astral and etheric bodies of a multicellular organism.

Therefore, peoples' souls will differ from each other according to the **evolutionary level** they have attained. Frequently, people at a moment of extreme danger, or who have actually experienced clinical death claim to see "**angels**" coming to their rescue. These "angels" are simply spirits possessing one or more mental bodies.

What misleads people is their appearance: the glowing of the mental bodies and their streaming tails leads to this misconception. Many religious notions have a basis in reality. So natural phenomena, out of **ignorance**, are deemed of divine nature; otherwise totally ignored or denied.

In multicellular organisms, the etheric, astral and mental bodies (possessing a high degree of evolutionary development) together constitute a single unified system — **the spirit, or soul** (see [Fig. 30](#)).

Let us recall, also, that every cell creates a protective shield around itself (see [Fig. 27](#)). Multicelled organisms also possess a protective shield, but at a different qualitative level, with the axis running parallel to the spinal cord.

A key fact is that the cerebral and spinal cord neurons maximally deform their macro space and — being heavily concentrated in the brain and spinal cord — create a dimensionality gradient inside the multicelled organism. **In the latter life forms, the brain and spinal cord perform the same function as the nucleus in a monocellular organism.**

A channel common to the entire multicelled organism is formed along the spine. Primary matter turns in counter-flows during its movement along the common channel. The flow occurs along the microspace curvature zone being constantly created by the neurons of the spinal cord and brain.

Upon reaching the physical level, currents of primary matter turn at the coccyx, recapitulating the shape of the microspace curvature. As a result, primary matter establishes a stable buffer zone around the physical body and spirit, giving rise to the organism's protective shield (see [Fig. 31](#)).

This buffer zone accommodates the circulation of primary matters, the by-products of substance disintegration within the organism's cells.

Concomitantly, circulation of primary matter occurs between the spirit bodies — etheric, astral and (when present) mental body. **Much of the life of a living organism depends upon the way the primary matter circulates between its spiritual bodies. Sometimes life itself depends upon it.**

### Chapter 3. The nature of emotions and their role in the evolution of life

A flood of emotion engulfs our lives, from the first scream signaling our entry into the world until the last gasp marking our exit. The whole gamut of feelings — love, jealousy, exaltation — despair, pain, inspiration — weariness and disappointment, to name a few — all are expressions of our soul.

Fair and ugly, noble and base, divine and evil — all are qualities stemming from the evolution of human nature, and closely connected to our spirit's emotional state. So what do these emotions **represent that play so pivotal a role in all our lives?** What is their nature and what functions do they fulfill?

How can we explain this phenomenon of nature? Or are the poets right about the origin of human feelings when they say that we cannot explain love — or, if we could explain it, then it couldn't be love? Surely we all crave the touch of something mystical and sacred in our lives, rare though it may be. But if we could truly understand this miracle, there would be far more happy people in this world and far fewer broken hearts and unfulfilled longings...

So, in essence, what is the nature of human emotion? We may properly speak of emotions only after — in the course of its evolution — a living organism has developed a nervous system, albeit even a single-celled organism is capable of reacting to changes in its environment. If a noxious stimulus crosses its path, it quickly retreats to a safer area, only to return to its normal habitat once the danger is past.

Let us take a closer look at emotions — feelings. **Emotions, feelings, are a living organism's reaction to internal and external environmental change.** They comprise two major groups — **protective reactions** and **reactions geared to survival of the species.** Virtually all living organisms, from lowest to highest on the developmental scale, exhibit such reactions. Each new evolutionary step has led to the creation of further emotional reactions, as well as the elaboration of existing ones.

Let us examine each group individually and begin with an analysis of the **defensive emotions.** Every defensive reaction has but a single purpose — **survival of the individual.** This is obvious, since only those species which survive the struggle for life can perpetuate their kind. So let us explore how defensive emotional reactions help them survive.

In time of peril, only those species with instantaneous responses were able to avoid becoming fodder for predators. It is well known that fear releases adrenaline into the bloodstream. In this state, for example, people can beat all records for speed, physical strength and distance jumps — impressing everyone with such feats. But subsequent attempts to beat their own records inevitably fail. How can we explain this phenomenon? Let us try to find a natural explanation for this curious feature of the human psyche.

Ostensibly, the adrenaline rush in the bloodstream, triggered at the moment of fear, would appear to account for this. But, rather than jumping to conclusions, let us take a closer look at this physiological response of the human organism.

Adrenaline released from the adrenal glands enters the heart via the venous system. But before proceeding further, let us recall that venous blood is propelled through the veins by the wave-like contraction of the circular muscles, eliciting only an insignificant drop in blood pressure. Thus the adrenaline reaches the heart after one to two seconds. The venous circulation then propels it through the inferior vena cava to the right auricle, thence to the right ventricle, pulmonary artery, lungs, pulmonary vein, left auricle, left ventricle, and aorta. From the aorta, two main circulatory routes branch off — one, relatively short, to the brain where it constitutes the cerebral vascular circulation, and the other, more extensive, but still rapid route to the organs and somatic musculature

Thus the adrenaline reaches the muscles within seconds. But even a child can recognize that a

predator needs only a few seconds to snap up his targeted dinner. Perhaps every one of you has experienced an instantaneous fright reaction -your body in shock, your hair standing on end, then a sudden inexplicable surge of strength and you are saved!

How does this all happen? Where does this remarkable strength — that we are not even aware of — come from? To understand this phenomenon let us look at the process that unfolds in every cell of our organism at the moment of fear or danger.

We may recall that within one and the same multicelled organism each and every physical cell possesses a distinct quality according to its function. Simple cells merely perform simple functions if their physical bodies possess only an etheric body. Cells executing more difficult functions may possess an astral body and, in certain stages of evolution, one or more mental bodies as well.

Thus, every living cell exists simultaneously on two or more planetary levels (see [Fig. 28.](#), [Fig. 29](#)). Physical cells undergo disintegration of their organic molecules into their constituent primary matters. These released substances begin moving through the channel created by the cell's nucleus and are distributed between the cell's etheric, astral and mental bodies.

Primary matters nourish each cell body on all its different levels, thereby preserving it on each level and keeping it intact. Without this continuous nourishment, the cell's bodies on the various levels lose their functional quality. However, there is the proviso that for normal physical functioning a slight surplus concentration of primary matter is needed to support the cell bodies of each level, i.e., the astral and mental as well as the physical.

During this process, some of the primary matter surplus gives rise to a reverse effect — a backflow to the low-lying cells. Let us examine this in more detail.

Let us visualize a process of disintegration beginning inside a cell. The released primary matters flow through the cell's nuclear channel on to the etheric level of the cell (see [Fig. 32](#)). As this flow hits the qualitative barrier between etheric and astral levels, it partially reverses. As a result, primary matter **G** gradually accumulates on the etheric level of the cell.

The etheric body of the cell becomes fuller and gradually reaches an optimum density level. As the process continues, the **G matter on the etheric level** becomes depleted, giving rise to a flow of **G** matter from the etheric back to the physical level (see [Fig. 33](#)). This concentration within the etheric body impacts the latter's dimensionality. As soon as the maximum change in dimensionality on the etheric level reaches critical mass, it ruptures the qualitative barrier at the astral level of the cell.

At this point, primary matters reach the astral level of the cell. Likewise, during their course, they strike the qualitative barrier between astral and first mental bodies, where some are turned back in a reverse flow (see [Fig. 34](#)). Matters **G** and **F** eventually accumulate on the cell's astral level. The cell's astral body becomes increasingly dense and eventually reaches the optimum level. Continuation of this process creates a surplus of **G** and **F** on the astral level, which, in turn, impels the movement of these substances from the astral to the etheric level and finally to the physical level (see [Fig.35](#)).

As the astral body's density increases, so does its impact on the astral level's dimensionality, which, on reaching the critical level, ruptures the qualitative barrier of the cell's first mental level (see [Fig. 36](#)). There primary matters **G**, **F** and **E** gradually accumulate in the cells of the first mental level. The first mental body becomes increasingly dense until it reaches the optimal density level and the entire process is repeated again....

It is important to note that every qualitative barrier between the planetary spheres maximally affects any primary matters that are not constituents of the spheres **through which they move**. This is due to the fact that each planetary sphere lacks a primary matter found in its neighboring sphere's composition. For example, the etheric sphere is composed only of **G** matter; the astral of **G** and **F**; the first mental of **G**, **F** and **E**, etc. (For further details, see Ch. 1, *op. cit.*).

A complete understanding of this process gives us the key to unlocking the mysterious mechanisms of memory and consciousness, which we shall later come to discover. Under normal condi-

tions, the primary matters released from the disintegration of a physical cell's normal molecules are equally distributed among the cell's etheric, astral and first mental bodies. This enables every cell of the same type and structure to perform its appropriate function. Cells possessing different functions are qualitatively different in structure from each other. Some possess only an etheric body, an etheric and astral body, or an etheric, astral and first mental body.

Accordingly, each cell level receives **only a portion of the cell's generated potential**. Thus, **primary matter G participates in the functioning of all the cell bodies — etheric, astral and first mental**. We may recall that primary matter is released through the disintegration of a physical cell's organic and inorganic molecules. The bloodstream then conveys these molecules to the cell, which by a process of osmosis pass through the cellular membrane into the cell's interior, where decomposition takes place.

A cell's osmotic pressure, like any other pressure phenomenon, is based on **the dimensionality gradient between the cell's internal and external environments, which are separated by the cellular membrane**. The hydrophobic properties of the cellular membrane, consisting of one lipid and two protein layers, **maintain this dimensionality gradient**. This is due to the water-repellent property of the membrane's lipid layer: thus, only organic and inorganic molecules, as well as ions, diluted in plasma, can penetrate the cell. Thus the membrane functions as a living filter.

**A dimensionality gradient therefore arises between saturated and unsaturated solutions since each has a different self-dimensionality level**. The larger the molecule and the heavier its atoms, the higher its dimensionality level. Their solubility corresponds to their compatibility with the molecules, which, in turn, **depends on the value of the atoms' and molecules' dimensionality gradient and the presence in the environment of waves possessing a similar dimensionality gradient** (see Ch.1).

The absorption or radiation of such waves maintains the balance of the molecular dimensionality level. **Water molecules are virtually stable within the whole spectrum of physical substances**. In view of its low molecular weight ( $\text{H}_2\text{O} = 18$  atomic units) water has a lower dimensionality level than those of the molecules dissolved in it. Therefore, **a saturated solution has a higher dimensionality level than an unsaturated one**.

Incidentally, the hydrophobic properties of a membrane's lipid layer are due to the fact that its dimensionality level does not quantize with that of water. Therefore, waves impinging on a watery environment **cause dimensionality fluctuations lower than the difference between the dimensionality level of the water molecule and that of fat**.

Thus, owing to the somewhat higher dimensionality level of a saturated water solution, such as blood plasma, molecules in the vicinity of a cell are able to penetrate its membrane. At the same time, free water molecules are repelled by the cell membrane's fat layer. By the same token, complex organic and inorganic molecules, having dimensionality levels equal to that of the cellular membrane's fat layer are capable of penetrating the cell membrane (see [Fig. 37](#)).

Now, let us recall that every atom or molecule has its own self-dimensionality level at which it is stable. A molecule penetrating a cell membrane disintegrates when it enters the sphere of influence of the cellular nucleus and DNA mitochondria (see Ch.2) and disintegrates into primary matter forms. In essence, controllable nuclear reactions — the modern scientists' dream — actually exist and unfold all the time within any cell.

Owing to the continuous process of internal cellular disintegration, the dimensionality gradient between the cell and the surrounding plasma remains intact. It is noteworthy that the value of that gradient fluctuates: the cell's dimensionality level increases as the cell becomes saturated by organic and inorganic molecules from the plasma. When it strikes a balance with the plasma's dimensionality level, the influx of new molecules into the cell drops off — the cell is "full" - maximally saturated with organic molecules.

As the self-dimensionality level changes with the cell's becoming greater than the plasma's, a reversal occurs, with **the molecules moving out of the cell back to the plasma from which they**

**came.** Since the dimensionality gradient is minimal, only the molecules possessing a similar dimensionality level can move. It is precisely this type of molecule, synthesized from disintegration by-products, that becomes toxic slag. The latter consists of molecules whose cellular dimensionality level is minimal, and therefore the **DNA** and **RNA** molecules that arise, having standing waves of dimensionality gradient, do not substantially affect their stability.

This process gives rise to toxins in the plasma, which are transported through plasmatic lymph vessels into the main bloodstream. The slag-saturated blood then travels through the veins into the heart, which pumps it into the kidneys where it is cleared of the slag.

Periodic dimensionality fluctuations between cells and plasma occur **when the speed of decomposition inside the cell of an organic molecule is less than the speed of inflow into the cell.** In other words, **all functions of the physical cells in particular, and of the organism as a whole, depend upon the speed of the decomposition process.** It appears that **adrenaline** plays a major role as **accelerator of intracellular decomposition, without which an organism is unable to function.**

During the decomposition process, the concentration of organic molecules decreases, **triggering a drop in the cell's self-dimensionality level.** The direction of molecular flow changes. The cell becomes "hungry", and organic molecules begin moving from the plasma to back inside the cell. This process does not cease until the death of every organism -from one-celled creatures to complex multicellular life forms.

And now, let us return to our discussion of the emotions.

What, then, is the defensive role our emotions play? How do they help us survive in a crisis situation? It is important to note that emotions, as defense mechanisms for survival, unfolded in the process of billions of years of evolution — especially with regard to their major function — **preserving the individual, the bearer of genetic information** so crucial for the evolution and development of life. This is a perfectly understandable way for **a given species to ensure its posterity and survival** throughout its evolution — the prime requisite of which is **the presence of members capable of producing offspring.**

For this reason, only those organisms that developed the capacity for mustering their potential and adapting to stress in moments of peril were able to survive the life struggle. Let us recall that each cell of every living organism releases primary matters during decomposition. Furthermore, these primary matters circulate between every level of the cell (see Fig. 36). This, in turn, evokes maximal interaction between all cellular levels. Only in this state can a cell function with maximum efficiency and minimal damage.

Additionally, every cell of a multicellular organism possesses several functions:

1. **Individual** processes — relating to life support.
2. **Functional** operations — geared to the well being of the organism as a whole.
3. **Defensive (protective)** processes related to preservation of the species.

Understandably, the cell must exhaust a portion of its potential fulfilling these functions. In crisis situations, the cells must focus most of their potential on providing defensive functions at the expense of other functions. In such instances, the cell works on maximum drive and sustains maximum damage. Commensurate with the damage sustained in crisis situations, toxins accumulate within the cell, which are unable to get released. This is due to the fact that the thrust of the remaining blood pressure causes a movement of plasma through the intercellular space.

Thus the blood circulation effectively releases plasma from the capillaries into the intercellular space. Since liquids are not compressible, fresh portions of plasma push the earlier portions ahead, all of which promotes the circulation of plasma in the intercellular space. The slowly moving plasma accumulates in the lymphatic vessels and subsequently returns to the bloodstream.

The retention of toxins inside the cells triggers a chemical reaction between the toxins and the cellular molecules, owing to the toxins' chemical activity. Deterioration and malfunction of the in-

tracellular processes ensue. For this reason, after every stress load, cells need a period of recuperation — sometimes prolonged, during which time they can completely or almost completely recover.

Under the impact of frequent stress loads, the cell is unable to recover, and rapid disintegration ensues. Capacity for cell recuperation may vary among different types of multicellular organisms, or even among members of the same species. Additionally, during the life cycle of one and the same member, the ability to recuperate may vary considerably. Cells undergoing extensive damage die and are later replaced by new ones.

Now, let us explore what happens to cells laboring under **critical conditions and how this relates to our emotions**.

With normal functioning, primary matters released after disintegration are distributed among all cellular levels (see [Fig. 38](#)). In this case, all of primary matter **G**, which is a component of all bodies on all cellular levels, is absorbed in the normal course of the cell's life cycle. Each cell body — etheric, astral or mental — absorbs the primary matter appropriate to its qualitative composition. Thus **the cell's etheric body** fills up only with type **G**; the astral body with **G** and **F**; and the first mental body with **G**, **F**, and **E**.

Thus, type **G** circulates on all cellular levels as the cell disintegrates. Accordingly, **each level gets only a partial allotment of type G** stemming from disintegration of the physical cell.

Each cell body then reaches a critical level of saturation, triggering the start of a reversed flow from the other levels to the physical cell. In essence, this circulation of primary matter through every cellular level epitomizes the process we call **LIFE**. Thus the etheric body of the cell captures a portion of type **G**, **while the rest is allotted to the remaining levels**.

Let us recall the etheric body's role in cellular physiology, with regard to which portion of its physical load is handled by each cell separately and which part by the organism as a whole.

Actually, **the larger the portion of G remaining on the etheric level, the more powerful the physical cell itself**, as well as the organism as a whole. How then, can we "compel" **G** matter to accumulate only on the cell's etheric level, if, concomitantly, under normal cellular activity, all cellular levels are functioning and **G** matter is distributed to all of them? (See [Fig. 36](#), [Fig. 38](#)).

For this to occur, a "shutter" must appear between the etheric and astral levels. Only then can **G** matter start accumulating on the cell's etheric level, triggering a robust increase in the physiological capacities of the individual cells as well as of the organism as a whole (See [Figs. 39](#)). But how does this "shutter" arise at the moment of danger?

Under stress it is **the spirit making use of the emotions** that creates this "shutter." Yes, it is precisely emotion that provides the key which opens or closes the "shutter," as well as other levels of the spirit, thereby enabling an individual to self-regulate his diverse skills and abilities. What kind of process unfolds within the cell itself, as well as within the organism as a whole?

Let us recall that the permissible dimensionality of the astral plane falls within the range of  $\Delta L_{A.S.}$  ( $2.91935 < L_{A.S.} < 2.93956$ ). Likewise, the astral body of a cell or an organism may have a value that falls within this range. The self-dimensionality of a cell's (or organism's) astral body depends upon the **evolutionary level of development and its qualitative condition**.

Every emotional state which an organism experiences has **its own specific level of self-dimensionality**. Thus, every change in emotional state brings with it a corresponding change in the dimensionality level of each cell's (and organism's) astral body.

How does this occur? We may compare the behavior of a cell's or organism's astral body to that of a float in a pond with its floodgates open. When the water level is in a moderate range, the float tends to drop lower and lower; as the water level rises, the float also rises. But once we grasp the analogy of the water levels, we may then ask how can we apply it to a cell's or organism's astral body — specifically, what kind of "water" flows in or out during an emotional reaction?

Under normal conditions of cell activity, primary matters **G** and **F** accumulate in the cell's astral body, thereby giving rise to a deformation of its microspace. When the deformation reaches a

critical level, the qualitative barrier between astral and first mental levels of the cell opens and primary matter begins to fill up the cell's first mental body (see [Fig. 36](#)). The dimensionality level of the cell's astral body then approximates the higher level of permissible dimensionality for the astral plane (see [Fig. 40](#)).

Under the impact of fear, **the cell's astral body releases primary matters G and F**, causing a decrease in the microspace deformation. **This, in turn, causes the level of the astral body's dimensionality to decrease** (see [Fig. 41](#)).

**The net result is the closing of the qualitative barrier between the first mental and astral levels. Fear is a very powerful emotion: hence the drop in the astral body's dimensionality level to the lower limit of the permissible dimensionality range of the astral plane.** This restores the qualitative barrier between astral and first mental planes and reverses the flow of primary matters, especially **G, F and E** (since the latter are components of our planet's first mental sphere). A reverse flow of primary matter to the etheric body then ensues (see [Fig. 41](#)) including toward the cell's physical body as well.

As the flow of **G** matter continues, it begins to feed the cell's etheric body, thereby **intensifying the effect of the etheric body's strength upon the physical body** (see [Fig. 42](#)). The result is a sharp rise in the capability of the physical cell body and consequently of the organism as a whole, enabling the individual to save himself in a moment of peril (see [Fig.43](#), [Fig. 44](#)). Let us examine more closely the side effects of the above processes.

Within the same species, a fear reaction may differ markedly — simply causing paralysis in some cases. Powerful flows from the etheric to the physical level are capable of blocking the cell's functioning. The reader may have experienced similar effects of fear, or had occasion to observe how fear may merely immobilize a person, robbing him of any ability to save himself.

Sometimes fear impacts an organism so strongly that the soul exits the body and the person loses consciousness. The only positive aspect in this event is that the unconscious subject feels no pain, so if destined to fall prey to a two- or four-legged predator, he will not feel a thing before death. And fainting under such circumstances does not necessarily signify cowardice, but may simply be the result of natural processes occurring within the organism and in no way under the person's control. All of this has to do with some qualitative genetic differences, as well as with the structure and qualitative differences of the various spirits within the species.

Every physical cell of an organism has an upper limit of its maximum-load threshold. The level varies for each species as well as for a single member of the species. For the species as a whole, the following factors determine this limit:

**1. Evolutionary level of development of the species' spirit.** The higher the level, the greater the ability to withstand heavy loads.

**2. Genetics.** Even insignificant genetic variations within one or another species afford a huge range of possibilities to the carriers.

**3. The physical condition of the organism as a whole.** Exhausted or diseased individuals have a much lower limit.

**4. The biological age of the species.** With increasing age, there is a decline in the degree of interaction between the spirit and its various bodies, and between the spirit and its physical body.

**5. The organism's biorhythms.** The physical, emotional and intellectual biorhythms reflect the periodic activity of the spirit's etheric, astral and mental bodies, respectively. (See [Fig. 45](#), [Fig. 46](#), [Fig. 47](#)). What are biorhythms? What role do they play in our lives as a whole and in cellular activity in particular?

We are all, to some extent, familiar with a feeling of fatigue when the brain is unable to "give birth" to a single idea and our creative faculties are "on hold": we feel immobilized — unable to move or act. Our only desire is to fall into bed and get a good night's sleep.

All of this bespeaks the fact that our bodies become fatigued in the process of completing a

workload and we need rest to replenish our strength. This is an undisputed fact. The etheric, astral and mental bodies of our physical cells also perform a share of the workload as they build up our physical bodies.

Each body that comprises part of our spirit is unable to function at maximum efficiency all the time. That is why, in the course of evolution, each of the bodies — etheric, astral and mental — developed a self-regulatory mechanism for handling the workload. Let us bear in mind that the spirit as a whole, as well as each of its separate bodies, has its own level of development. This means that the etheric, astral and mental body of the spirit as a whole, as well as each single cell separately, has **its own specific level of self-dimensionality**.

Since the cells function as basic components of the organism as a whole, each body — etheric, astral and mental -undergoes a change in its dimensionality under the impact of the whole load. Let us examine the activity cycle of a cell's astral body.

We start by examining the phenomenon from the moment when the cell's astral body is at its lowest value after processing a previous load (see [Fig. 48](#)). During the activation phase, the cells propel a large amount of primary — matter through the cell canal. At this point, **G** and **F** matter start to fill up the astral body of the cell. As a result, the astral body begins to heavily impact its surrounding microspace, causing a rise in its dimensionality level and substantially opening the qualitative barrier between the astral and first mental levels. This results in a copious overflow of primary matters onto the first mental level and a lively circulation between astral, etheric and physical levels of the cell (see [Fig. 49](#)).

This, in turn, leads to an increased efficiency in all cellular functioning. The continuous influx of **G** and **F** matter into the astral body triggers a change in its self-dimensionality, causing it to begin working on overload (see [Fig 50](#)). In this state, the cell's astral body cannot last very long without setting off cellular disintegration on every level.

At this point an opening appears in the astral body, releasing **G** and **F** matter from their "captivity": this initiates **a decrease in the astral body's self-dimensionality level**. This process proceeds very smoothly and gradually, constituting a full cycle for the astral body. The latter consists of twenty-eight days and is designated as the **emotional bio-rhythm**. Analogous processes occur in the etheric and first mental bodies of the cell and in the organism as a whole. The etheric body's cycle of activity consists of twenty-three days and is called the **physical biorhythm**; the cycle of first mental body activity takes thirty-three days and is called the **intellectual biorhythm**. As a full cycle unfolds, its dimensionality level drops to the initial level and everything starts all over again.

Thus, an emotion born in the depths of the soul may clash with certain periodically repeating activity levels of the astral body. Explosive eruptions of primary matters **G** and **F**, triggered by fear in moments of danger, **sharply decrease the astral body's self-dimensionality level**; however, unlike the characteristically smooth movement of the astral bio-rhythms, it is **very abrupt**. Further, this change in astral body level may push it beyond its critical limit, leading to its malfunction and ultimate destruction.

The cell loses its astral and first mental body (or only the astral body if it lacks a mental body). Its qualitative structure collapses, resulting in loss of normal functions, leaving it only the capacity to function like an etheric cell body. An abrupt decrease arrests the astral body at the phase in the cycle of the emotional biorhythm corresponding to its level of dimensionality.

When cells having only an etheric body come into proximity with normally functioning cells that possess — in keeping with their function — astral or astral and mental bodies, uncontrollable cell division results. This occurs because a cell with broken astral and mental bodies receives the same nourishment as its neighboring cells. In this case, the primary matter by-products of disintegration saturate only the etheric cell body, which then becomes engaged with them, resulting in a reverse flow of type **G that is more robust than the flow from the nearby cells**.

Such a cell readily accumulates organic molecules, since only a portion of the incoming molecules decomposes.

When the concentration of organic molecules reaches the critical level, **cell division occurs** and a **cancer tumor** starts to develop.

If, in a stress situation (e.g., fear or anxiety, among many others), the astral and mental body (when present) break down at a time when the astral body is in a low phase of emotional biorhythm, prolonged depression often results. This is because, in times of stress (as with any emotional reaction) the astral body's supply of **G** and **F** matter starts erupting, leading to a drop in the cell's astral body dimensionality.

As the latter becomes commensurate with that of the lower range of the planet's astral plane, this brings the cell's astral bodies as well as the organism as a whole into a state of harmony with the lower astral planetary plane, which resonates with the negative emotions. A subject in such a state is bombarded by negative emotions — without a chance of returning to normal.

The only way to restore normality is to fill up the cells' astral bodies with **G** and **F** matter, particularly **F**. This occurs when the physical cells release primary matters through the disintegration of their organic molecules. This proceeds slowly until the dimensionality level of the astral body returns to its initial value.

If, in the process of recuperation, new stress emerges, the organism will again be catapulted to the lower astral plane. So a subject may be submerged for a long time in a morass of negative emotions. The only solution is the speediest possible restoration of the original dimensionality before some new load or stress overtakes the organism.

And here one may note differing recuperative powers among the various types of human psyche, of which there are four main types — **sanguine, phlegmatic, choleric and melancholic**.<sup>7</sup> Each subject's type is determined by the qualitative structure of his spirit, as delineated by the relationship between the etheric and astral bodies. For example, a subject with a complete astral body and a dominant etheric body belongs to the **sanguine type** (see [Fig. 51](#)).

Stress has a minimum negative impact on the sanguine type because the initial self-dimensionality of his astral body is maximal. **So when stress lowers the self-dimensionality level — from the astral body's release of primary matters G and F — it rarely reaches the lower astral levels.** Dominance of the etheric body provides maximal stress resistance for the spirit as a whole. Waves of emotion impinging upon a strong defensive field are readily dampened by a spirit's dominant etheric body.

The **phlegmatic** type of psyche differs from the sanguine in that his astral body is composed only of primary matter **G**, though he also displays dominance of the etheric body (see [Fig. 52](#)). This type of spiritual structure is passive and lacks creativity or leadership ability, but excels at getting things done.

Creative abilities can manifest only when there is a fully developed astral body, composed of matters **G** and **F**. A complete astral body opens the qualitative barrier between the astral and first mental spheres, which leads to activation and potential for development of a first mental body. Actual activity of a first mental body leads to a qualitative leap in creative thinking and intelligence.

The **melancholic** type has as his spiritual base a dominant astral body composed only of matter **G** (see [Fig. 53](#)). Such a qualitative structure renders an organism **emotionally unstable**. Emotions lead to a very rapid drop in the dimensionality level of the astral body and become commensurate with the lower range of the astral plane. Such a condition can be chronic and lead to prolonged depressions.

The **choleric** type of psyche also possesses a dominant astral body, composed of **G** and **F** matter (see [Fig. 54](#)), and, like the melancholic, has an **emotionally** unstable spiritual structure.

<sup>7</sup> **Ed. Note:** The terminology set forth here is still in use in Russia to designate the diagnostic categories referring to **four fundamental types of psychic organization**. The antiquated terminology was kept, though the concepts were updated to coincide with contemporary knowledge. In the present volume, the older terminology is retained, and the four basic types of psychic organization are explained **according to the composition of man's spiritual bodies and their biorhythmic vicissitudes** — a multidimensional perspective never before offered. **"SPIRITUAL" BODIES** are simply bodies that make up the spirit and have **NO SPECIFIC RELIGIOUS CONNOTATION**.

However, since his astral body contains **G** and **F**, it has a significantly higher baseline dimensionality level than the lower astral body of the melancholic, composed only of **G** matter. For this reason, the same emotions that plunge the melancholic into depression do not have this effect on the choleric.

Emotional upheavals of the choleric also decrease the astral body's dimensionality level, but never to the value commensurate with that of the lower astral plane. This favors his recuperative powers and ability to restore the initial dimensionality level...

Thus, the degree of impact on an organism under emotional stimulation depends upon the **qualitative structure of the spirit, as manifested within the spectrum of the various temperaments**. Each emotional stimulus leads to a release of energy and the production of the corresponding **emotional waves**. This leads to the loss of **G** and **F** from the astral body and a decrease in its self-dimensionality. Each emotion **changes** the latter **by a given value**, constant for each type of emotion. We may therefore speak about **a fixed spectrum of emotions and a specific level of self-dimensionality** corresponding to each emotion.

The quality of **base and negative emotions are in harmony with the lower astral plane**, while **lofty and positive emotions** resonate with the **upper astral plane**. **Emotions are not merely reactions to internal or external events -they have a qualitative effect on the astral body by changing its self-dimensionality level**.

A grasp of this phenomenon provides us with **the key to understanding karma** — the reason why every action we perform, every thought born in the depths of our soul affects us — either condemning us to the horrors of "hell" or consigning us to the rewards and delights of "heaven." To our great amazement, we discover that the "Higher Force" or "God" of the gospels, who rewards or condemns us is none other than **OURSELVES**, the consequences of our thoughts or actions, crimes or exploits, accomplished during our lifetime. And **our own** "Higher Tribunal", operating on automatic — independent of our wishes and oblivious of our mistakes — shows no mercy, no forgiveness...

How does this tribunal exist? How is transgression punished? **Crime and punishment** are not just philosophical concepts or juridical categories, but realistic natural phenomena. Unfortunately, in most cases, retribution for wrongdoing is visited upon the spirit in future reincarnations or immediately after the death of the physical body. But this does not render the punishment less harsh. The problem is that conscience, memory, feelings or emotions belong, up until death, to our spirit only. The physical body is merely a vessel for the spirit. And when, on dying, we cast aside our now useless physical shell, our conscience, memory and individuality remain. So to understand the nature of karma, we must grasp the mechanism of emotional impact on the qualitative state of the astral body, as well as on all the other spiritual bodies...

Each of our actions brings about change in our emotional state. More precisely, **each action corresponds to a certain emotional state**. That is, the qualitative structure of matter actually **undergoes transformation** in order to consummate a deed or action. Following this, the spirit's qualitative transformation persists for some time following the action, after which the spirit's structure reverts to the initial state (or approximates it). The very same action may have an entirely different effect on various individuals, according to their psychic type, because of the qualitative differences in their spiritual structure.

For this reason, different people require different amounts of time to return to their initial state, according to their psychic category. But a subject will be unable to restore the baseline if he repeats the same actions or deeds too often to allow for recuperation time. In some cases this may cause **a permanent deformation** of the spirit's original structure and **a new qualitative spiritual structure for that individual**. This can occur even with a single action if accompanied by strong enough emotions. Emotional states with amplitude **within the limits of stability for the astral body** are still **reversible**.

**Irreversible** results correspond to emotional states **that transform the astral body beyond the stability limit**. This renders the astral body unstable, causing it to eject primary matters **G** and

**F**, triggering its **qualitative transformation**. Excessive loss of **F** matter leads to its disappearance from the astral body's structure, transforming it into a lower astral body (composed of **G** matter only). The result is **reverse evolution**.

The astral body may be likened to a rubber band with sufficient elasticity to return to its original state after being stretched. But in time its elastic properties will decrease and its final shape will be less and less like the original. And, if stretched too far — it will simply tear...

Now, to return to the emotions... We need to see what kinds of emotionally laden deeds and actions are powerful enough to cause **irreversible changes** in the qualitative structure of the astral body.

Let us recall that **each emotion has its own particular self-dimensionality level in the astral plane**: the **lower** the level, the more **primitive** the emotion. The emotional state of a predator or killer is one of the most primitive in nature. For animal predators these emotions are a necessary condition of their existence without which they would become extinct. They enable the hunters to maximally concentrate their potential on the level of the etheric body, which generates tremendous physical strength and rapid reaction time at the moment of attack.

Practically all predators go hunting when they are hungry and kill only to satisfy this hunger, thereby preserving their life and that of their offspring. Here there is no violation of natural law. Predator animals occupy a specific place on the evolutionary scale and possess only a lower astral body. For this reason lowered dimensionality levels accompanying their emotional state do not initiate an irreversible process for them.

**Humans, because of their position on the evolutionary scale, are more susceptible to the effects of any predatory emotions they experience.** Even when a human kills an animal for food, his astral body's dimensionality level decreases by a certain amount, creating a problem for him in terms of his continuing evolutionary development. When humans kill their own kind, the emotional load reaches a critical level, rendering the astral body unstable. This results in a discharge of primary matters and a sharp drop in the astral body's dimensionality level.

Meanwhile, changes occur in the astral body, so substantial that they become irreversible. Why, then, does murder by humans evoke such irreversible changes in the cell's astral body, while killing an animal for food only blocks evolution? The crux of the matter is that murder of one's own kind appears to be an unnatural act, a violation of the law of nature. One who kills his own kind has to summon up the necessary emotional state by **stringently forcing himself**.

This creates a reverse flow of primary matter from the first mental body to the astral.

The additional reverse flow renders the astral body dysfunctional and forces it to release its constituent primary matters — a process of reverse evolution. The urge triggering one human being to kill another is artificially created by inventing some nonexistent reason for the need to commit this unnatural act. Almost invariably this has to do with persons who want to wrest a bigger "piece of the pie" from others who possess more. **Even if the situation is unjust, a further injustice does not remedy it.**

As one old Chinese legend has it — once upon a time many gallant knights tried to free a country held captive by a dragon, but the dragon always triumphed — because each time a "hero" slayed the dragon and took his place he too became a "dragon." And this continued until one victor did not follow suit, but instead just abandoned the dragon's castle with all of its treasures. And only then was the dragon vanquished completely and irretrievably. **"To kill the dragon"** one must kill him **within oneself**: only then will one injustice not be replaced by another.

And until this happens to all mankind, the dragon will not disappear — even if some hero kills the "dragon within." There will always be some kind of shoddy individual who will rush in to fill the "vacancy." Only if mankind evolves as a whole can the problem with the "dragon" be solved. Most negative motivation and conduct stems from the inferior evolutionary development of earth civilization as a whole and its erroneous scale of values born of ignorance and perverted ideology. So, a just organization of human society can only come about when realistic knowledge re-

places ignorance and the deceptive reflections of a distorted worldview are destroyed. Then wealth will no longer determine a person's status in society, nor will the "dragon" *personae* continue to prevail.

Until the day **spirituality triumphs over greed and materialism**, a sick society will continue to motivate many unwary souls into a life of crime. And these wrongdoers, in their ignorance, will pay dearly for their distorted values and end up selling their souls to the "devil." It does not matter that they do not know or do not believe in the existence of the soul — at the moment of transgression **retribution** becomes inevitable and will follow as a consequence of their own actions. This is an actual law of nature: the "devil" is born within each sinner and then slowly devours him. And the devil is — precisely — an array of lower astral creatures that inhabit an astral jungle filled with the spirits of dead animals. These feed on human spirits for their sustenance, so that the hunters become the hunted — the prey of the more powerful predators.

And all this occurs because at the instant one transgresses, the astral body undergoes qualitative changes — which ultimately, at the moment of death, whether natural or premature, leave the spirit stranded in the astral jungle, unable to find a safe haven.

Thus, our emotions may either save us when danger threatens or doom us to the tortures of "hell." So far we have looked only at the basic instincts of self-preservation and the phenomenology of the predator. But — over and beyond these — man possesses higher spiritual qualities which manifest in a whole spectrum of lofty emotions — and therein lies **our hope for mankind's ultimate evolution** as a truly intelligent and moral race.

## Chapter 4. The nature of the emotions: the higher emotions in man

Man enters this world through the travail and anguish of his mother, who, for nine long months has nurtured him in her womb. As soon as he gains self-awareness and curiosity about his origin, he is regaled with all kinds of tales about the stork who brought him home as a gift to his parents.

Eventually — either crudely or delicately — he learns about the sexual coupling of his parents — an act which led to his conception. Union of sperm and ovum, carrying the parents' genetic coding, always marks the developmental starting-point of a new life (see Ch. 7, *op. cit.*, for further details).

Perpetuation of the species is one of nature's prime functions for any living creature — humans included. Of course, Mother Nature created the stimulus of sexual gratification to accomplish this. But is it only physiology that rivets male and female to the close bonding that gives rise to life?

And, is it only sexual gratification that impels man and woman to forever bind their destinies together? Of course, sexual intimacy plays a pivotal role in human life, but it cannot explain the depth and spiritual richness of the love that binds — not just any **man and woman** together, but a **specific man to a specific woman**.

From the standpoint of physiology, any man and woman are compatible and theoretically capable of producing a new life. But why, from a score of acquaintances or myriad strangers, can a man choose his "one and only," to whom he dedicates songs and poems, and for whom his heart throbs and his soul sings? It is impossible to explain this on the basis of sexual instinct alone. Love between a man and a woman is immeasurably deeper than physical attraction, just as an ocean is immeasurably greater than a single drop of water.

What, then, is love?!

Along with emotions related to survival of the individual, nature endowed living creatures with emotions and feelings for perpetuation of the species, without which life as a whole could not survive. Such emotions and feelings are selective, not only for humans, but for all multicellular organisms. What is the nature of this selectivity? Everything is, at once, very simple and very complicated...

In the course of evolution on our planet, only those species survived that were able to adapt to environmental change and transmit positive mutations to their future generations. The positive mutations ensured their perpetuation; their maximal adaptability rendered them stronger, healthier, faster and more compatible with their particular ecological niche.

Mating contests between males brought out the strongest and best, enabling the victors to pass on their new qualities to their offspring. It was precisely this competitive mating behavior that ensured the transmission of positive qualities that became encoded in their genetics.

In most species, the external appearance of the male played a pivotal role during mating by displaying to the female the degree of his adaptability to the ecological niche they occupied. Thus, in the animal world, the males' outer and inner qualities determined sexual activity, while the females, in most cases, played a passive role in mating, merely accepting the attention of the victorious males.

Humans, as part of living nature, certainly played under the same rules that nature created in the course of evolution of life on Earth. But, aside from his animal instincts, man has a spiritual side that sets him apart from the animal world. Though initially man's sexual behavior was no different from that of other highly organized animals, still, during the evolution and development of his spiritual values, man began to set himself apart from primeval nature by his sexuality as well.

What are those qualities that allow us to differentiate man from the rest of nature on the basis of his sexuality? Let us explore and try to fathom what permits us to consider *Homo sapiens'* sexuality as a sign of a new, qualitative step in his evolution. Is it, perhaps, only conceit — only our

wish to create an illusion of our own uniqueness — that compels us to regard ourselves as a distinctive manifestation of nature, even vis a vis our dominant natural instinct?

So, is it self-delusion or a realistic, qualitatively new step in the relationship between male and female — or, to put it more politely, between **man and woman**...?

*Homo sapiens* is a social creature: i.e., from the moment of birth, then through maturation and the rest of his life, he moves among people, among human society. From the first moment of life, he begins to absorb, from communicating with others, the information amassed by previous generations. The information thus transmitted and absorbed by the brain transforms both the brain and its human owner. When the quality and quantity of the information absorbed reaches a critical value the usual miracle takes place — **consciousness arises**. Such a miracle can unfold only in a social environment, because the needed information can only be amassed by preceding generations for transmission to new generations in the form of experience.

With the emergence and growth of human consciousness, the qualitative structure of the human spirit starts to change and evolve. A full human astral body develops, composed of primary matters **G** and **F**, followed by a first mental body, made up of **G**, **F** and **E** — linked to **intellectual power and flexibility** rather than physical prowess. The development of brain and intellect became a necessary step, without which future generations would have been unable to evolve.

Such favorable emotional strides by man — unlike the development in other living organisms — meant more than just positive mutations manifested by optimal adaptability and physical prowess (both of which played a significant role in the relationship between male and female). They also represented an enhancement of cerebral development and a broadening of man's spiritual evolution.

Essentially, the degree to which every single individual goes through such stages is manifested in the qualitative structure of his soul. That is why relationships between man and woman involve not only external physical beauty, but also **the inner beauty and richness of the soul**. The outer beauty serves as a stimulus for the physical intimacy between man and woman, while the inner beauty is the mainstay and support of their relationship.

Nature's prime task is to transmit the best qualities from one generation to another. Concomitantly, new qualities are transmitted from preceding generations to future offspring through the combination of maternal and paternal genetic material. Ideally, the **male's genetic contribution** should be in maximum harmony with the **female's**. Only then can favorable qualities be consolidated in future generations. It is now well established that offspring inherit one half of their chromosomes from each parent.

However, in order for new qualities to manifest at peak efficiency, the chromosomal contribution from each parent must be in optimum balance and harmony with one another. Otherwise, they may be lost forever or blocked for many **generations if the qualitative level of the father's chromosomes is not in harmony with that of the mother's**. Every single species survives, in the course of evolution, only through the consolidation of favorable qualities.

Let us now look at that magnificent natural phenomenon that manifests itself in the ineffable feeling called love.

The anatomy of love — is not an offensive topic as some may think — but a necessary overview that can help us understand ourselves more deeply and perhaps steer clear of negative behavior — gaining greater happiness for ourselves and our loved ones. Let us recall that the qualitative level of one's development manifests in **the qualitative structure of one's soul**. That is why interaction between man and woman manifests, first of all, on the **soul** level.

Before proceeding further, we should point out that a male and female spirit each has its own distinctive quality and that, when complete harmony prevails, they complement each other. Together they constitute **one complete system**, and, in states of full harmony, there is an active interchange of qualities between them: the man receives from the woman certain qualities that are lacking in the qualitative structure of the male spirit, which he needs for his further development. In turn, the woman receives analogous contributions from the man. The exchange is accompanied by

that ineffable feeling called **love**. Chinese philosophers define this harmony as a balance between **yin and yang**...

Let us recall that everyone's level of evolutionary development manifests in the qualitative structure of his spirit — in other words, the types of spiritual bodies evolved and the level of their dimensionality. One may speak of complete harmony between man and woman only when the dimensionality levels of their constituent bodies possess identical or very similar values (see [Fig. 55](#)).

For this reason, harmony may arise between a man and a woman even when each is at a different stage of evolution. Such harmony may be permanent or temporary. Usually it is temporary if they have not completed formation of their main developmental course (see [Fig. 56](#)). They come into harmony when their evolutionary development intersects at a certain point, so that both are in sight of each other. It may be likened to when a man and a woman, driving along in separate vehicles, focussed on other matters, happen to meet and notice each other.

It often happens especially to adolescents, because, from age fourteen to twenty, the astral body is actively developing so that all of them are practically at the same evolutionary level. We may recall that the spirit, after incarnating, expends a part of its potential in the formation of a new physical body, which gives rise to a qualitative barrier between the spirit's qualitative level and that of the physical body.

This qualitative barrier disappears during evolutionary development. Human evolution begins the first day of life. From age four to eight, the child functions as an "informational sponge," soaking up all the information he can from the external world. This informational input induces qualitative changes in the brain and, upon reaching a critical volume, causes the qualitative barrier between the etheric and astral bodies to disappear.

From that moment on, the spirit's astral body gets "fed" and begins to develop actively, and to function. Initially, following the birth of a human, the spirit's astral and mental bodies are passive and primary matters released within the cells of the physical body do not reach the astral body. This is due to the presence of a qualitative barrier between the etheric and astral bodies. Reactivation of the astral body, as noted above, does not occur until the etheric body completes its development under the impact of the information absorbed by the brain.

Reactivation of the astral body takes place in two qualitative stages, corresponding to two qualitative conditions: During the first, the astral body **is composed only of G matter and therefore resonates only with the lower astral level of the planet**. In most cases, astral body reactivation is complete by twelve to fourteen years of age as a result of brain transformation from absorbed information(see [Fig. 57](#)).

The second stage of astral body reactivation is usually complete by sixteen to eighteen years of age and can occur only if the brain accumulates a critical amount and critical quality of information. This period of man's development is the most dangerous and requires the most caution. This is because between the ages of eight and eighteen, the qualitative condition of the astral body is temporarily in harmony with the lower astral level of the planet and therefore resonates with negative emotions. This all manifests naturally in youngsters as aggressiveness, sadism and rebellion against everybody and everything.

At that age, they are very susceptible to alcohol, drugs and nicotine. All of these substances maximally break open the spirit, which is not ready for such a process. This opening up on the level of the lower astral leads to a process of **consolidation of the spirit's structure and the lower astral level of the planet into one system**. A kind of imprinting of the spirit by the lower astral's template occurs.

Concomitantly, an influx of primary matters typical for the lower astral penetrates the spirit. To break loose from this lower astral "captivity" one would have to expend a huge amount of vital energy — but this effort would be in vain. Such potential can be used for evolutionary progress but not for extricating oneself from the lower astral swamp. Very often, the plunge into the lower astral is too deep to escape. One simply **lacks sufficient potential** for this to happen. To be sure, in most

cases the individual does not undergo physical death but he does suffer evolutionary death. The lower astral swamp sucks him in completely and dooms him to evolutionary stasis until death. Only in the next reincarnation does the spirit get a chance to continue its evolutionary development, provided it does not fall into the same trap again. This period of evolutionary development is the most vulnerable stage in human life and the most needful of vigilance.

While instances of this abound, I should like to mention one example in particular...

During one of my public lectures, after working with the audience as a group, I stepped off the stage to attend to individuals who were on overload from my work and required my intervention to restore them to normal. Usually after a few seconds of one-on-one work, the subject returns to normal and I continue with the next one in need of my help. During this process, I noticed that one young woman, who was not too bright to begin with, had dropped into a stupor.

I returned her to consciousness as usual, and was about to help another subject when she again lapsed into unconsciousness. Whenever this occurs, I have to be especially vigilant. Telepathic contact with her spirit gave me a very unexpected answer. As a result of overload, her spirit had been expelled from her body, thus liberating it from the "prison" of the present physical body.

The freed spirit was delighted with the release from that "primitive" body which had been unable to develop it to a level consistent with its quality. Thus the reason for the woman's instability became clear: The spirit had tried to escape from the disliked body and I had forced it back in to continue trying to "open up" and develop that body.

The young woman totally returned to consciousness after the forced return of her spirit. She had no understanding of what had just happened to her. Only the inadvertent witnesses were shocked by what they had seen and heard. As we can see from this example, a spirit is sometimes not quite able to be reactivated in a current physical body — especially if it is already more advanced in development than that body.

Now let us return to the scrutiny of the human spirit on its odyssey through the "evolutionary jungle..."

Every intelligent being should be capable of traversing that hazardous part of the evolutionary path as quickly as possible — and of avoiding the delays or detours of false and deceptive temptations. The ability to distinguish "true" from "false" may come **too late or not at all**, thus causing stumbling blocks for most of us. Here the saying, "better late than never" is not valid. A spirit has a certain "window of opportunity," limited in time, within which **specific qualitative changes** must take place.

In order to accomplish this the brain must accumulate a certain volume and quantity of information. This is the only way a spirit can "open" to the next level of development. But what kind of beguiling temptations does modern civilization offer our younger generation?

Far more than the promotion of violence and the "easy life," which bombards the younger generation through the mass media, an even stronger influence on their evolutionary development is at work through the medium of music. It is no secret that different age groups have different musical tastes. Not too many people can guess the reason for this.

It is simply that the self-same music can have an entirely different effect upon people, depending on their evolutionary level. When one listens to music, he does more than hear it: actually his spirit becomes attuned to the impact of the various frequencies and rhythms. Somehow music imparts certain qualitative states to the spirit that may either be in harmony with it or totally incompatible.

In the first instance, one feels an inner stirring or joy, which can reach the level of ecstasy. If the music resonates with his sexual feelings, it can lead to orgasm. Women are more sensitive to music, because the qualitative structure of the female spirit is very labile and easily transformed by its influence. Concomitantly, the reaction occurs at a subconscious level and is uncontrollable consciously.

When disharmony exists between the music and the spirit's qualitative structure, a subject ex-

periences irritation or other emotional reactions which impel him to stop listening. Such a response to music is a protective reaction. Let us try to understand why such a response arises.

As we know, sounds (particularly musical sounds) are composed of longitudinal waves. Like any other wave, they change the dimensionality of their space by a certain value. Sound waves, because of their parameters, **impact the dimensionality level of the macrospace** in the local volume of space. Even very **insignificant changes of the macro-space dimensionality cause redistribution of the primary matters impinging upon the given volume of space.**

As a result, the **quantitative distribution of primary matters** changes in the local volume of space upon which the sound waves impinge.

A spiritual body saturated with primary matters in a zone of musical sound waves invariably undergoes change. Sound waves have the biggest impact on the astral body by creating an additional saturation of primary matters **G** and **F**; these manifest in the subject's emotional reaction to the sounds of the music. Low frequency sounds excessively flood the astral body with **G** matter, which, in the male, manifests as sexuality and aggression. It is no coincidence that, to most women, the low range of a man's voice is part of his sexual image, his sexuality. The low range impacts the woman sexually, stirring up her desire and impelling her towards sexual contact. So we may well call the human voice "a sexual instrument". Let us explore what happens on a cellular level at the same time.

Low frequency waves, upon reaching a subject, trigger a reshuffling of primary matters in the area of impact. This upsets the balance and proportion of their distribution. The excessive saturation of the area by **G** matter, in turn, causes an additional saturation of the astral and etheric bodies located in the zone of the sound wave front (see [Fig. 58](#)).

This leads to an increased concentration of **G** in the astral and etheric bodies (see [Fig. 59](#)). Concomitantly, an additional movement of matter arises from the astral to the etheric body, and thence to the physical body of the cell. The sound waves move in a rhythmic tide, like any other wave. The activity lasts for a given period of time, during which the reshuffling of primary matters is in process. After the sound front passes, the primary matters revert to their previous qualitative condition. As the sound front moves, the excessive saturation of the etheric and astral bodies creates a gradient between the environment's self-dimensionality and the self-dimensionality levels of the etheric and astral spiritual bodies. This, in turn, leads to some instability of the two bodies, causing a discharge of the excess **G** matter, following which the etheric and astral bodies revert to their initial condition (see [Fig. 60](#)). During all this, the subject experiences the **corresponding emotions**.

Thus, musical sounds generate **compulsory emotions in listeners**. Combining sounds of different frequencies initiates specific patterns of primary matter redistribution in the zones of activity. All this initiates a broad range of feelings created by music. The question then arises — what kind of obligatory emotions do the various types of music generate?

We may consider music as one of the ways of influencing human consciousness and, therefore, a type of psi-weapon — note, for example, the periodicity of repeated low frequency sounds, called **rhythm**. Each new low-frequency sound wave brings with it a successive redistribution of primary matters in the area of the sound front — over and over again (see Figs. 58, 59, 60). The interval between the completion of one low frequency wave and the arrival of a new one is of major significance. Let us recall that as the low frequency wave moves, there is a reshuffling of primary matters and a saturation of astral and etheric bodies with **G** matter. After passage of the sound wave front, the astral body discharges the excess concentration and the cells revert to normal. But what happens if the new sound front comes in before the moment when the cells revert to their initial state? What then? A new sound wave does not allow the cell to return to its prior state but **forcibly holds** the cell on the **qualitative level of the compulsory emotion**.

In other words, periodic repetition of low frequency sounds is able to forcibly sustain — not just trigger — **a specific emotional condition**. A most intriguing effect — is it not? The question is — what kinds of compulsory emotions are being forcibly instilled in a subject against his will (most often without any awareness on his part)?

**Periodic repetition of low frequency sounds can forcibly arrest a cell at a certain qualitative level — leading to specific destruction of its qualitative structure and to evolutionary blockade.** What happens is that a new front of low frequency sound waves impacts the cell on its way to reverting to normal, thus returning it to its previous compulsory state. Repetition of this process at the same interval will cause the cell's astral body to swing back and forth like a pendulum. This ultimately destabilizes the cell and leads to the specific destruction of its astral body, starting with the upper astral structures first. The latter structures are **at the stage of just becoming actively developed in youngsters and very easily destroyed by this kind of abuse.** So it is a sure and easy way to destroy the evolutionary future of youth. This is actually **happening in reality** through the use of certain types of music that serve as bait — especially "**rap**" and "**heavy metal.**"

If such "musical" trends enjoy the complete backing of government agencies, it is clear who profits from them. The state needs "work horses" that are unwilling and unable to think. It is far easier to rule a herd of "sheep," especially if they never ask unwelcome questions that have no answer.

Sound waves with frequencies of 6-8 Hz are weapons and cause a redistribution of primary matters. This, in turn, produces irreversible damage in the very highly organized brain cells, the cerebral neurons. Brain overload results and the subject dies...

Now let us return to the evolutionary development of man — to the point where he actively embarks on the journey through the evolutionary jungle, full of youthful vigor and enthusiasm. At this stage, from age twelve to fourteen, he begins to elaborate the higher astral structures of his astral body—in other words, at that age almost everyone initially possesses only a lower astral structure (see [Fig. 57](#)). Everyone takes part in the "evolutionary race," but only a few make it even to the intermediate finish line.

**Evolutionary development of the astral body's higher structures varies with the individual.** One subject may have an excellent start, but get bogged down in the middle of the road. Another may have a slow start and gradually accelerate his evolutionary pace. A third may remain at the starting line, without making a move his entire life, despite good potential at the onset. A fourth may go in reverse, thrusting himself backward on the evolutionary path.

All this can happen to either sex. Thus, a couple may meet — each possessing a different level of spiritual development, and each having little in common with the other. It is meaningless to speak of a deep feeling between them, if one is more highly developed than the other. Such a relationship, even if it came to pass, would be very superficial and short lived (see [Fig. 61](#)).

Similar levels of evolutionary development usually manifest in shared interests, aspirations and dreams, which, in turn, engender mutual support. When two people are that close to each other spiritually, and their souls that attuned to one another, love can develop. This is possible because **on all levels of development they enjoy full harmony, manifested in the close or identical levels of their spirits' constituent bodies** (see [Fig. 62](#)).

Since people keep developing and changing over the years, it often happens that a loving couple, who initially were really close, gradually begins moving apart — to such an extent as to loosen the bond between them. Then even the closest relationship brings only abrasiveness and hostility.

That is how that magical feeling called love fades away for some people — vanishing in the sieve of time and turning into a mirage. However, for others, love follows them all their life, filling all their days with radiance and warmth, and enriching them spiritually. What is this mysterious thing called "love?" Why is this mystery revealed to some and forever veiled for others?

And, why does love sometimes dwell in a humble home, suffusing it with warmth and light, while eluding the palaces of the wealthy, leaving them cold and empty. Or, why does it sometimes flash like a meteor and vanish imperceptibly like a morning fog under a rising sun? Where is the hidden key to this mystery that has confounded man since Adam and Eve?

**Love is a harmony of the souls, and vanishes when that harmony fades.** The latter occurs when the partners undergo qualitative changes in the course of their evolution. Then one of the pair may surpass the other, leading to the disappearance of primary matter circulation on one of their

bodies' spiritual levels (see [Fig. 63](#)).

If this continues, the pair, who so strongly bonded but a short time ago, can get nothing more from the relationship. Because of qualitative differences in spiritual development, only the sexual contact remains, without the spiritual harmony (see [Fig. 64](#)). Frequently, after sexual intercourse, such partners end up hostile and irritated due to the kind of energetic exchange experienced in the act.

This is because the discrepancy in spiritual development also gives rise to qualitative differences in the energy flows exchanged. The latter being incompatible, their confluence provokes negative emotions only, since **they merge at the qualitative level of the partner having the lower evolutionary development**. Thus, the incompatibility of the flow with the partner's qualitative structure evokes a protective emotional reaction of a negative nature. This renders the intimacy undesirable for at least one of the sexual partners.

It is similar to a feeling of aversion when food tastes bad: our taste receptors are warning us against ingesting a noxious substance. Similarly, a negative emotional reaction during the sex act between a qualitatively mismatched couple, signals the subconscious about the incompatibility of their spiritual structures.

This is a sign from Mother Nature, who is concerned about future generations and the need to transmit only positive qualities so necessary for continuation of the species. If conception occurs during unwanted sexual contact, the incarnated spirit comes from a lower evolutionary level than that of a compatibly conceived spirit.

Let us try to understand why that unique feeling of love arises when a man and woman are in harmony. Let us recall that as physical substances disintegrate within a cell, the constituent primary matters are released and start circulating between the cell levels. Most are dispersed into space while a smaller remaining portion saturates the cell bodies, thereby providing the fuel for the vital processes unfolding on all levels.

In a harmonious relationship between man and woman, their spirits, which are of opposite polarity, start triggering the flow of primary matters within the closed system they have created. Difference in polarity between male and female spirits is determined by the qualitative difference in their structure. Thus, in **the male spirit**, primary matters flow **from the coccyx to the head**, while in the **female spirit** they move in the opposite direction — **from head to coccyx**.

On the atomic level, we may observe a similar process in an electronic pair, which is an unstable system formed by electrons having opposite spins — i.e., positive and negative— a property which also manifests in the antithetical movement of primary matter. Electronic pairs — just like married couples — show the same phenomena that **reflect a harmonious condition on the various evolutionary levels of primary matter development...**

An unfavorable circulation of primary matters in male and female spirits exhibits a different kind of impact by each spirit on the dimensionality level of the surrounding space. As a male spirit evolves, it "pushes through" the dimensionality of the surrounding space, while a female spirit "fills up" the space nonuniformly from the inside (see [Fig. 65](#)).

With a fully compatible couple, the flow of primary matters passing through the male spirit's structure also flows through the structures of the female spirit, causing additional saturation of the female spirit's bodies. Similarly, the flow of matter passing through the female spirit's structure additionally saturates the bodies of the male spirit.

Thus, from that harmony between man and woman we call love, both partners receive additional potential from one another. Likewise, there is an exchange of male and female qualities in the process, which is absolutely essential for the evolutionary development of every individual. To advance to the next evolutionary stage, one needs both male and female qualities. This is exactly what happens during the coupling of lovers and is called white tantra.

**White tantra is possible only when there is full harmony and mutual love between a man and a woman.** This makes it a very rare phenomenon because not everyone is able to find his "oth-

er half." Many do not even make the attempt, but merely follow the adage that "a bird in the hand is worth two in the bush." Not too many of us are willing to wait for the ideal mate or search for a partner all over the world, while coping with all the hardships involved...

During any sex act, there is an exchange of qualities and potential between man and woman. Such an exchange is subject to a few possible variations. Every man or woman has a potential created by the body over a twenty-four hour period,  $J_0$ , as a result of intracellular disintegration of organic molecules. That potential depends upon the physical and emotional state of the individual and may have a different value for the same person throughout his entire life. This potential decreases with age (see Ch. 2, *op. cit.*, for further details). An organism's biorhythms also affect that potential. A healthy individual always creates a potential,  $J_0$ , with some reserve for use in emergency situations. There is also a minimal potential,  $J_1$ ? for the organism's normal and productive functioning. During intercourse, when qualities are exchanged, the partners each contribute a portion of their potential,  $J_2$ , and receive in return a portion of each other's potential  $J_3$  (see [Fig. 66](#), [Fig. 67](#)).

The amount of potential,  $J_0$ , which each partner gives to the other and the amount each receives in return, is of crucial importance. If, in the process, one partner gives more than he receives, there is no problem if the energy loss does not exceed a value of:

$$\Delta J \leq J_0 - J_1 \quad (1)$$

However, if one of the partners loses more than the above, difficulties arise (see [Fig. 68](#), [Fig. 69](#)):

$$\Delta J > J_0 - J_1 \quad (2)$$

This is an example of **sexual vampirism**, which may be episodic in nature, due to exhaustion, illness or nervous breakdown, thereby disrupting the restoration to normal. If transient, it is no more harmful to health than if the donor partner had given blood.

However, if it is of long duration, a completely different situation arises: the sexual donor may become physically weak and even die. A partner of either gender may be a sexual vampire.

**Sexual vampirism** may stem from **either conscious or unconscious action**. When conscious it creates **negative karma**. Such negative karma involves the draining of life force from a partner through use of the partner's special coding during intercourse, when he or she is maximally open.

It takes only one coding to continuously transfer the life force from donor to sexual vampire, with or without intercourse or proximity. This is the usual way a tantric pyramid is created, based on the above coding. A tantric leader always preaches the principles of free love to his victims and instructs his "flock" in coding methods.

In turn, the "flock" attracts new followers of free love to the tantric brotherhood and teaches them the same methods. The amount of followers drawn to the tantric pyramid then grows in geometric progression. A certain hierarchy arises, whereby life force is amassed on every level and transferred to the next level. As a result, the tantric leader accumulates a huge potential for himself...

Usually such leaders use that potential for control of the masses through manipulation of the subconscious, in order to achieve specific goals. Black tantra, as an instrument for amassing potential and the future manipulation of people has been around throughout human history, from ancient times to the present. During the initial stages of civilization, tantric rituals were widely used, along with certain customs and traditions which the leaders incorporated into the rituals.

Some of them allowed the tribal leader to have sexual contact with all the women of his tribe. The purpose was not to gratify the leader's lust but to keep all the males of the tribe under his control. After sexual contact with the leader, the encoded woman became a wife or mate to one or several of the males. Thus, the leader accumulated the potential needed to control his tribe.

Hence tantric rituals at the early stages of civilization provided the leader with the power to dominate his tribe. Without that power, the tribe would have been unable to survive the constant wars and conflicts. The only tribes that survived were those with a strong leader able to unite all the

tribal members into one unified organism — a condition I previously described as a "superorganism" (see Ch. 3, *op. cit.*). By converting his tribe into a superorganism, the leader was basically turning a disorganized throng into an organized system, in which every single warrior was ready to sacrifice his life. This is possible only when one of the most powerful basic instincts in man and all living creatures — self-preservation — becomes completely suppressed.

Only individuals with a very high level of moral and spiritual development are capable of consciously suppressing that instinct. Unfortunately, they are few and far between. For the rest of the tribe, it is suppressed only when the latter is in the **superorganism state**. The leader, then, is usually the one possessing sufficient potential **to create that qualitative condition of a superorganism state**.

However, it is very rare to find an individual of sufficient power to create this condition for his fellow tribesmen. For this reason, different methods for amassing the needed potential were invented. **Black tantra** is one of them. This gave the leader of the tantric pyramid the power to exert an excessive influence on his followers — over and beyond the accumulation of the needed potential.

Tantric rituals existed for a long time among many nations in the form of the *droit du seigneur*, which gave the master the right of first sexual contact with all the newly wed females of the tribe, thus ensuring his control over his vassals. Such a barbaric ritual was, in fact, a very real necessity.

During the initial stages of civilization, only tribes with powerful tantric pyramids survived the constant battles. There were also leaders naturally endowed with power, but the tantric pyramids always worked, regardless of the leader's personality. It is noteworthy that practically all gregarious animals, including man, practiced the tantric method of community organization. That is why man, at the initial stage of his evolutionary development, obeyed the basic instincts of untamed nature.

Thus, tantric rituals were **inevitable** at the beginning of civilization, enabling the tribes to survive. As civilization developed, man's spiritual foundation began to emerge and grow, thereby providing new ways to control mass consciousness. Still, the primitive modes, like black tantra, did not completely disappear, but became altered to fit the circumstances.

So, the need to find new methods of mass control gave man the impetus **to begin creating and developing his spirituality**. With the further development of the family and the institution of private property, tantric rituals became more and more unacceptable. Nonetheless, even today there are some African, South American and island tribes — isolated for eons from the mainstream of evolution — which are still practicing these rituals.

But the increasing widespread non-acceptance of tantric rituals made the creation and development of religion inevitable. The old ways yielded to the new. Tantric rituals that were flourishing for thirty thousand years no longer were in accord with reality, in terms of the particular stages of evolution that were unfolding. For that reason, **the era of religion** came into being about ten to twelve thousand years ago.

It was not that religions were non-existent before then in one form or another: it simply means that man was in a different qualitative stage of evolution during that earlier epoch and therefore their principles of self regulation were in harmony with the given phase of development. "Embryonic" religions were waiting for their turn to emerge. The latter became established very rapidly and were able to pass on the standard to the next stage of evolutionary development. At a certain stage of development, an intelligent community will inevitably and of necessity create religion. The question then arises — what kind of standard is passed on from the previous community's organization? Let us recall that the tantric system arises out of the need for the leader to amass enough potential **to manage and control** his tribe so as to lead them into the **superorganism state** — **their only means of survival in crisis situations**.

Therefore, the religious institutions that replaced the tantric rituals pursued the same goal — to collect potential **for controlling mass consciousness and turning the population into a super-**

**organism state at critical moments in history.** At certain stages in the development of human history, religion plays a pivotal role in every nation — giving them the wherewithal and opportunity to survive in their struggle for a place in the sun.

How did religion fulfill this role for a particular tribe or nation? In the older approach — the tantric pyramid — coding during sexual contact enabled the leader to accumulate the necessary potential for control of his tribe. In this context, it should be noted that the population count of every single tribe never exceeded a large number. This allowed the leader to impose a certain level of ruthlessness and aggression in order to create the necessary pyramid.

As civilization advanced, consanguineous tribes united into nations. As the quantity of such nations grew more and more rapidly, the tantric method of psi-control became inefficient. The leader was then able to impose it only upon his immediate following and control only his closest affiliates. Controlling the masses was impossible without the help of the vassals, and they were ready to supplant the leader at any time.

Thus creation of a new method of psi-control became mandatory and crucial. Tribes unable to do so were completely annihilated or assimilated into other tribes. So while psi-control is basically a negative phenomenon under normal human conditions, it became inevitable as the only way to preserve a large majority of the population.

A phenomenon that can be so positive in a crisis situation — and yet so negative because it is a manipulation of consciousness — only appears **at the initial stages of a civilization's development**. There is a very simple explanation for this paradox. The low level of an individual's consciousness does not allow him to see what is necessary for the group as a whole. The basic instinct of self-preservation wins out over the weak voice of reason. Consequently, the individual concerned only with saving his own neck makes his own demise and that of his fellow tribesmen inevitable.

An individual at a low level of spiritual development **cannot fathom why he, of all people and no one else**, must sacrifice his life to save others. This leads to only one outcome — that everyone dies. And even if he survives a particular crisis, he still perishes when he struggles to survive alone in the wilderness. Man is a social creature, which means that the only way for him to survive is to collectively combat nature in the wild.

That is why the negative phenomenon of psi-control became **an inevitable evil**, as the only way for a human to survive in his **struggle against the elements and the ruthlessness of his own species**. Use of psi-weapons enabled the leaders to turn a whole population into a superorganism. This partly or completely suppressed the instinct of self-preservation, making it possible to save a whole tribe at the expense of several members' lives.

But when the same leaders started using psi-weapons **for their own nefarious purposes — to amass power and wealth** — this became problematic because it was a violation of natural law...

Now let us return to our discussion of the nature and purpose of religion. The tantric method of psi-control became unable to perform its role as the tribe's numerical growth increased. **The invention of religion became a new qualitative step in the technique of psi-control**. The creators of religion exploited the ignorance of the masses, their awe of the elements and their fear of the unknown. Everything incomprehensible was idolized and polytheism arose as a result. Temples were built, where people worshiped multiple gods and regaled them with prayers and sacrifices, including human.

The temple site was not a random choice. The planet's surface is marked by positive and negative zones, the so-called geomagnetic zones. These are surface areas pierced by clumps of primary matters that continue their movement inside the planet's nonuniform zones even after planet formation. This movement continues from the moment nonuniform zones arise until they cease to exist.

**Positive geomagnetic zones** are zones with **outgoing bundles of primary matters**, while **negative geomagnetic zones** receive **incoming bundles of primary matters**. Temple sites are always selected in the positive geomagnetic zones possessing the thinnest qualitative barriers between

planetary levels.

The architectural and geometric structures of the temples are of special significance in that they serve as collecting lenses for the flow of primary matters. As a result, the temples become **the ideal site and instrument for mass collection of human potential and perfect for coding people and connecting them to the collective psi-system.**

Religious rituals and prayers, which throw people into a trance, render the process much easier and more efficient. With repeated praying, the devotee reorganizes his psi-system, attuning it to the collective. The "sheep" joins the flock and obediently anticipates the "shepherd's" every wish. The question is — **who were those "shepherds" and where were they leading their obedient "sheep"? Those possessing moral and spiritual purity were able to save whole nations from extinction and bring them to the pinnacle of spiritual development. Others, in their depravity, thrust their nations into ignorance and darkness, catapulting them at times to the brink of self-destruction and extinction.**

Initially, as religion developed, the forces of nature, which inspired such feelings of helplessness in man, were deified by the priests and made objects of fear and trepidation. Anthropomorphic gods, who controlled the various forces of nature, were later introduced. The worship of many deities by a single population tended to divide the people into factions of their respective gods. The high priests of every faction amassed potential from their congregations and, in most cases, used it for their own selfish purposes, rather than for the public interest.

This brought tragedy during the critical periods of history for every nation that needed unification of its people for a common goal. Many of the greatest civilizations of the past turned to ashes because of this. The strength of every nation lies in its unity, over and beyond the sharing of a common culture, language and economy. It lies in its collective psi-potential, that is — a melding of all the separate potentials of all those bearing kindred genetics.

The psi-potential of a nation is like a torrential river of raging passions and emotions. Polytheism was dividing that river into many miniscule streams, which were totally unable to overcome any formidable obstacles in their way — such as natural disasters or powerful aggressors. Only the unified torrent of a nation's psi-potential can surmount such barriers.

This is the reason why nations which embraced monotheism enjoyed significant advantages. The separate "mini-streams" were able to merge into one huge stream of psi-potential, transforming the populace into a superorganism. Mutual attunement of its members made this task simpler and more efficient. Unfortunately, for the same reasons, religious and state leaders exploited the superorganism state for their own personal interests. They inveigled nations into war for monetary profit and to increase their sphere of influence.

In such a state, the masses can become a blind weapon and, in the hands of dark forces, be driven to commit heinous crimes. A vivid example of this appears in the *New Testament*. Let us recall that Pontius Pilate, the Roman governor of Judea, tried to save Jesus from an undeserved and agonizing death on the cross. He tried to invoke an old Judean tradition allowing the people to spare one of the prisoners condemned to death:

***"Whether of the twain will ye that I release unto you?" he asked, and they replied, "Barabbas." And Pontius Pilate asked, "What shall I do then with Jesus which is called Christ?" and they cried out "Let him be crucified." "Why, what evil hath he done?" asked the governor, but they cried out even louder "Let him be crucified."***

***Then Pilate took water and washed his hands before the whole multitude, saying "I am innocent of the blood of this just person..." and they replied, "His blood be on us, and on our children." He then released Barabbas and delivered Christ to be crucified."***<sup>8</sup>

This is indeed a very strange expression of gratitude to the man who brought only goodness and kindness to these people. And, compounding this, the crowd cursed him, threw stones at him

<sup>8</sup> Matt. 27, 21-26. King James Version.

and spat on him all the way to the place of execution. Then — suddenly — as if a magic wand had been waved, everyone began crying and grieving over the evil deed they had done — but only after his death on the cross.

This appears quite inexplicable until we see why? The answer is very simple. The Judean priests greatly feared his power and deeds and were afraid to lose their hold over the crowd. They therefore used psi-weapons to compel them to choose Barabbas and continued their control over them until Jesus died on the cross. Following this, there was no further need to manipulate them, so the crowd was returned to normal. Then — horrified — they realized what they had done.

It is important to understand who manipulated the strings of control over the crowd.

Unfortunately, leaders of high moral fiber and spirituality are few and far between. In most cases, **they turn the means of survival into a weapon of destruction.**

In order to preserve their power and control over the people, religious leaders ruthlessly destroy anyone who deviates from their religious tenets. They endeavor to contain all "mini-streams" within one powerful "torrent." They spilled rivers of blood **to keep the masses under their control.** The psi-system "rivers" of separate nations were united into "seas" and "oceans", a process often abetted with the use of the sword and fear tactics. This led to the birth of **super psi-systems.**

Several such systems arose in the world that began warring with each other from the very outset of their creation and never ceased even during periodic lulls. Cyclically, one or another was always dominant. They reached their pinnacle and then collapsed as a result of internal strife.

The super psi-system of Christianity united a vast array of nations and achieved a global scale. Then gradually the system fell apart due to irreconcilable differences between nations. Christianity developed a strongly nationalistic character despite the efforts of its spiritual leaders to prevent it. The schism of 1058 A.D., dividing the Christian church into a Greek and Roman faction, marked the beginning of this process. People who were praying to the same god became enemies and started killing each other off in the name of that god. Gradually the Christian church kept changing, becoming more and more nationalistic. The same processes were unfolding within the Islamic, Hindu and Buddhist religions.

Neither the Roman nor Greek religious system had the slightest possibility of dominating one another. The super psi-system of religion had replaced the tantric in response to the qualitative changes in man's social environment. It fulfilled its role until mankind entered a new stage of changes in the same social environment.

Consequently, man is about to enter a new qualitative stage of social development: a new organization of the psi-system will appear and thus a new organization of psi-control. Any civilization lacking this is doomed to extinction. **The next stage of a super psi-system is planetary.**

Naturally — any developing system starts from the simple to the more complex. Every civilization evolves from a divided system to a unified system — that is its power.

All this does not imply that super psi-systems of the religious variety will vanish from the historic arena. They will just surrender leadership to the new system that reflects the new stage of earth civilization's development. This is in no way affected by the wishes of some or the resistance of others. It is a true evolutionary process — impossible to stop. Existing systems of psi-control may delay that process, but it is inevitable — our wishes or our concerns notwithstanding.

The question is — who will lead this coming super psi-system and how will it be used? **The struggle between the Light and Dark Forces for control of this upcoming system is now in progress.** Earth civilization will prosper and enter a new qualitative stage of cosmic evolution or will be doomed to self-destruction, depending on the victor. In the very near future, we shall see what unfolds... Now, let us return to the emotions.

Creative inspiration infuses science, art and any human activity. Why does the creative muse endow some people and completely bypass others? Perhaps this capricious lady picks her "admirers" as she wishes. Why are the secrets of the universe revealed to one individual, but never to another who breathes the same air, and sees and hears the same phenomena of nature? Why does one

person look but not see, listen but not hear? Can it be that their eyes, ears and brain are built differently?

Of course this is not the case! No matter what, there will always be some exceptional people who are able to see more, hear more and understand more deeply. How to explain this mystery? Are there any magic spells uttered that allows these exceptional ones, chosen by destiny and providence, **to unsheath the Excalibur of knowledge from the rock of truth?**

Every person born is a unique phenomenon of nature -with an exclusive genetic code — and possessing a spirit which is more less in harmony with his genetics.

**The genetic code, which arranges the order of nucleotide bonding within the chromosome, is what determines a person's qualitative abilities, talents and skills.** The **brain**, which is the instrument of cognition, **carries in its constituent neurons a person's genetic coding.** Every single nucleotide (there are only five known in all — adenine, cytosine, uracil, thymine and guanine), and every single gene (consisting of a combination of three nucleotides in a given sequence) has a **very specific and unique influence on the surrounding microspace.**

That impact is volumetric and it determines the amount, type and spatial position in the molecule of the atoms which compose every nucleotide. For this reason, the summation of the impact creates for every single nucleotide a unique pattern of influence on its microspace dimensionality. That unique pattern of microspace curvature makes **a qualitative impact on the properties of a given microspace.** This means that the microspace around the nucleotide and gene manifests in a unique way and exhibits distinctive reactions.

Thus, each single gene has its own "face," its own identity, which is constant. For this reason, the **DNA/RNA** molecules — which are genes joined in a certain order, containing the genetic information of each individual — create a unique pattern of microspace curvature. All this, in turn, is manifested by **a unique qualitative appearance and reaction of the microspace.**

So, even though the brain of every single individual contains the same amount of similar-appearing neurons, **it is qualitatively distinguished by the influence of its constituent neurons upon its microspace.** Hence, the properties and abilities of everyone's brain are **varied, and determined by the genetic code of each individual.** These differences show up not only in our appearance, but also in the qualitative condition of the brain at the microspace level. So here we may begin to see the criteria which the creative muse uses to select her "chosen ones".

Now let us try to fathom how nature's mysteries become revealed to the "chosen ones."

Let us remember that **all our senses combined give us only one percent of the information about our surrounding world,** which modern science has discovered with the aid of various devices. This information is adequate for life support and orientation. This is the basic purpose of our senses, as it is with all living life on the planet.

**It is totally absurd** when an individual tries to use his senses incorrectly to build a picture of the universe. It is perfectly understandable that anyone would consider it foolish to assemble a puzzle from a single piece, when he needs to join hundreds of different pieces to get the desired picture. And it would be completely nonsensical to copy a single piece of this picture and present it as the whole reality. **Hundreds of such similar pieces could never yield a true picture** — and those who fail to understand this fact are shortchanging themselves and others.

**A brain, rather than a sensory organ is the true instrument for discovering the world.** The information reaching the brain through the sensory apparatus is **adequate for orientation in the surrounding space, but not sufficient for its discovery.** Only when the brain **receives information in addition to sensory input, can discovery be possible.** Even though there is a significant increase in the volume of information received, thanks to the devices invented by modern science, **the latter are still not sufficient to create a complete picture of the universe.**

Many will wonder why it is insufficient to use such information for a complete depiction of the universe. There are several reasons for this: The instruments which people devise are based on their understanding of nature as perceived through their sensory organs. Therefore they reflect a

one-sided reality. Physical reality contains only a portion of the knowledge of the universe. That reality, which one grasps through the senses and instruments, is only the tip of the iceberg.

**The physical planet is only a piece of the whole planet.** The planet consists of the physical, etheric, astral, first mental, second mental and third mental spheres. They are **closely related** and in **constant interaction** with each other. That is why a correct picture of reality can be grasped only **after the brain receives information from all the planetary levels.**

All this becomes possible when the brain neurons, in the course of their evolution, **develop bodies on every planetary level, which transmit information from each of these levels to the brain.** How an individual processes that incoming information depends on the degree of his personal ability, skill and capacity for analytical thinking. The level of the neurons' evolutionary development allows a constant interaction with all planetary spheres on which they possess developed bodies.

The presence of an etheric body provides an interaction with the etheric sphere; the astral — with the etheric and astral spheres; the first mental — with the etheric, astral and first mental spheres, etc. **Every new stage of evolutionary development opens a door to a new informational level.** So, **evolutionary development** is the only way for man to **move forward on the thorny road to knowledge.**

A person's connection to one or another information level may be temporary as well. This occurs if the brain happens to open up to the next qualitative level as a result of some energetic breakthrough — rather than through a qualitative change in particular neurons and the brain as a whole. **During such a breakthrough, the brain's qualitative condition does not change.** When information from a higher informational level starts entering the brain, it causes instability of the brain, since it is not synchronous with the brain's neuronal structure. Expulsion of primary matters from the astral body of each neuron occurs (if the neurons have both astral and etheric bodies), or from the first mental body (if the neurons have astral, etheric and first mental bodies).

The dimensionality level of the neuron's existing spiritual bodies decreases as a result of the expulsion. This, in turn, leads to a cessation of informational flow to the brain from the next qualitative level. The "door" that was slightly ajar gets shut again. **The transient breakthrough to the next informational level, which was giving off additional information, is no longer in operation.**

Frequently it is possible to discover some of nature's mysteries during such an informational breakthrough: What occurs is a phenomenon called "enlightenment." In most cases it happens during a state of emotional arousal, owing to an active saturation of the astral body by primary matters. This leads to **an increase in the dimensionality level of all the cerebral neurons' astral bodies.**

Either gradual or rapid change can occur in the neurons' dimensionality level until the value approximates the upper limit of the astral plane of the planet, leading to an opening of the qualitative barrier between the astral and first mental levels of the planet. As this occurs, a flow of information starts to penetrate from the first mental level to the astral level of the cerebral neurons and thence to the etheric level, finally arriving at the cerebral neurons' physical level.

The brain then makes a new connection that will eventually provide a vehicle for new ideas and connotations.

For an in-depth understanding of this unique natural phenomenon, **we must try to discern the nature of memory and consciousness, as well as at which levels consciousness exists.** It is impossible to progress further on the road to knowledge without a grasp of that subject.

## Chapter 5. The Nature of Memory: Short- and Long-Term Memory

Memory: what is it really...? We come into this world and open our very own book of life — the soon-to-be chronicle of our personal life story. But what is forthcoming depends not only on the environment that nurtures and molds us, but also on the random chance events that inevitably touch our lives. Everything that befalls us is mirrored in that chronicle — our book of life and repository of all our memories.

It is thanks to memory that we can assimilate the experience of by-gone generations; otherwise that spark of consciousness we need would never ignite to awaken and foster the emergence of intelligence.

Memory bestrides both the past and the future. But what manner of miracle unfolds in our brain that gives rise to our ego, our individuality, our joys and sorrows, our victories and defeats? What makes us resonate with the beauty of a flower, touched with morning dew, its petals shimmering like jewels in the rays of the rising sun; or the gusting of the wind, the singing of birds, the whisper of leaves, the buzzing of bees hastening nectar-laden to their hive? All of these and much much more — everything we see, hear and feel, every day, every hour, every moment of our lives, is recorded in our book of life by that tireless chronicler — the brain.

But where and how is it all being recorded? Where is all that information being stored, and by what inexplicable manner does it emerge from the depths of our memory in all its vividness and vibrancy of color — virtually materializing in primordial form — those things we thought were long gone and forgotten? By way of clarification, let us start by seeing what kind of information enters our brain.

All humans possess sense organs such as eyes, ears, taste buds, etc., as well as various types of receptors over the entire body surface, i.e., nerve endings responding to various external stimuli such as heat, cold, electromagnetic waves, as well as mechanical and chemical effects. Let us examine the kinds of alterations these signals undergo before reaching the brain cells.

Let us take, for example, eyesight. Sunlight reflected from an ambient object falls upon our light-sensitive retina. The image of the object reflected by the light then enters the retina through a crystalline lens, which, in turn, focuses it on the retina. The latter possesses specialized photoreceptor cells, called **rods** and **cones**. **Rods** respond to low-level illumination, enabling one to see in the dark, and also provide a black and white image of the object. By contrast, **cones** respond to an optical spectrum of brightly illuminated objects. That is, the **cones** absorb photons, each of which has a characteristic color — red, orange, yellow, green, blue, indigo or violet. Further, each of these specialized cells "receives" its own fragment of the object's image. Actually, the full image is broken up into millions of fragments, **with each specialized cell** picking up one piece of the whole picture (see [Fig. 70](#)).

Concomitantly each light-sensitive cell absorbs the photons which strike it. The absorption of these photons **alters its self-dimensionality level**, as well as that of the other atoms and molecules within it (see Ch. 1), which, in turn, triggers various chemical reactions. As a result, **the qualitative composition of the cell's ions changes**. We should further note that the absorption of photons by light-sensitive cells always occurs in packets.

Accordingly, following photon absorption, the specialized cells are temporarily unable to respond to further photon stimulation; during that interval, we become "blind."

However, this blindness is very transient ( $\Delta t < 0,041666667$  sec.) and occurs only when the image changes too rapidly.

This phenomenon is well known as "the twenty-fifth frame effect." Thus, our brain is capable of responding to images not changing faster than twenty-four frames per second. At every twenty-fifth frame (and up) we are unable to see, so we cannot regard humans as fully "sighted" since the brain is capable of seeing only a piece of the surrounding world picture.

Nonetheless, what we can see is quite sufficient for orienting ourselves in the surrounding world. Our visual apparatus performs this function quite satisfactorily. However, we should always bear in mind that we see only a piece of the natural world and that we are, in essence, half blind. It goes without saying that our eyes react only to the optical spectrum of electromagnetic radiation [(4...10) $10^{-9}$  m]. Now let us try to understand the how and why of what happens in the eye's light-sensitive cells. Every single photon represents a wave ( $\lambda$ ) moving in a medium. Further, the wave generates a **microscopic disturbance** (i.e., deformation) of space dimensionality through every point on its pathway. It is precisely this microscopic alteration of space dimensionality, as the wave moves through its medium, that is absolutely pivotal for the biochemical processes occurring in the light-sensitive retina.

And, since photoreceptor cells have membranes permeable to photons, the latter can penetrate their inner space. Every cell contains a huge number of molecules, atoms and ions, the interaction of which ensures the cell's normal functioning. This constitutes the so-called metabolic activity which is present in all cells of all living organisms without exception.

But additionally, the photoreceptor cells contain atoms, ions and molecules which have nothing to do with metabolic functions; rather they play a unique role in all complex organisms. Specifically, these atoms, ions and molecules enable the brain of such organisms **to see their surrounding environment**. So, wherein lies their uniqueness?

The answer lies as follows: **under ordinary conditions, photoreceptor cells do not interact at all**. That is because their dimensionality levels differ from ordinary cells in that natural fluctuations occurring within them are not sufficient to trigger the usual chemical reactions — like forming new combinations of atoms into molecules or creating new electron bonds on already existing molecules and ions (see [Fig. 12](#)).

However, when photons penetrate cell membranes, **they generate an additional alteration of microspace dimensionality** at the point of entry of their wave front (see [Fig. 13](#)). Practically everyone has either watched on TV or experienced personally how ocean waves can elevate ships upon their crests, while ships not reached by the wave maintain their same level on the water's surface. A familiar picture, is it not?

When the water is calm, its surface level is uniform over its entire area, but when the waves rise, some areas of the water surface are much higher than the others. I believe we would all concur with this observation.

A photon penetrating a cell's membrane causes a similar reaction on its crest: **it elevates those atoms and molecules equal in dimension to its wavelength**. These are inorganic atoms, molecules and ions. Additionally, photons are of varying wavelength ( $\lambda$ ) and frequency ( $f$ ), representing every color of the spectrum and therefore form their own characteristic pattern of atoms and molecules according to their respective wavelengths. Thus, the photon's wavefront alters the dimensionality level at the point of penetration, at distance  $\lambda/4$  from the top of the wave, while the cell's microspace dimensionality remains the same as it was before the arrival of the wavefront.

At distance  $\lambda/2$  from the top of the wave, the microspace dimensionality decreases by an amount commensurate with the wave's amplitude. That is, a photon moving within a light-sensitive cell creates a dimensionality gradient which enables those molecules, atoms and ions commensurate with its wavelength **to generate new chemical compounds**. At the same time, **the photon itself is absorbed** (see [Fig. 13](#)).

This process unfolding inside the light-sensitive cell leads to a **surplus of ions**. Further, the qualitative structure and the number of surplus ions are determined by the wavelength of the photon absorbed. Following these events, the initial (and usual) dimensionality of the cell returns. During the period of cell "disturbance" the cell is unable to absorb other photons; for this reason the light-sensitive retina is incapable of "seeing" the twenty-fifth frame...

The color signals, which are produced by the photons' varying wavelengths, become an ionic code, which starts its journey to the occipital and temporal cerebral cortex via the neurons of their

optic zones through a series of specialized cells. The ionic code (really a redistribution of the ions) reaches the light-sensitive cells through synapses (contact zones), triggering a forced redistribution of ions inside the bipolar cells.

In turn, the bipolar cells transfer their altered qualitative state to the ganglion cells, following which the resulting electrochemical redistribution is transmitted along the optic nerve fibers to the occipital and temporal cerebral cortex via the neurons of its optic zones. Thus, through the axon bundles which make up the optic nerve, a signal in the form of ionic redistribution (ionic coding) reaches the neuronal bodies of the brain. (See [Fig. 71](#)).

Any external stimulus of the nerve endings on the human body is transformed inside the neurons into **an electrochemical signal**. Only ions travel along the nerves in one or the other direction. The question then arises — how does the redistribution of ions along the neuronal axons — triggered by outside stimuli — create an imprint of the signal in our brain and memory?

Let us try to understand this fascinating phenomenon of living nature.

Within the body of a neuron, the ionic picture changes quantitatively and qualitatively under the impact of an external signal. If we consider the state of an **unstimulated** neuron as representing zero, we find that it differs qualitatively from that of a stimulated neuron since it lacks the additional ions (ionic code) possessed by the latter. In other words, **external stimuli always lead to the appearance of surplus ions in the neuron**.

What, then, actually happens in a neuron when its **ionic balance** is disturbed? An understanding of this process will enable us to fathom one of living nature's deepest secrets -the mystery of human memory and consciousness...

When surplus ions within a neuron upset the ionic balance, **new chemical bonds** are created between the neuron's constituent molecules. **New bonds, previously not present, develop between molecules; or old bonds, formerly present, become severed**. Do such changes seem insignificant -the appearance of new and disappearance of old molecular bonds? What kind of radical changes could they yield?

However, it is precisely the creation of these surplus molecular bonds that give rise to new qualities when present in **DNA molecules**. The reason for this peculiarity lies in the qualitative difference between the molecules themselves, or, more precisely, **in the extent of their impact upon the dimensionality level** of the surrounding microspace. That is because **each and every molecule has its own particular self-dimensionality level** which reflects the degree of its impact upon its microcosm.

**Surplus atoms adhering to every molecule increase the molecular dimensionality**: this is particularly notable in the case of organic molecules. **DNA** molecules, by virtue of their huge molecular weight and spatial configuration combined, create qualitative conditions that ensure the rupture of the qualitative barrier between the physical and etheric levels of the planet (see [Fig. 25](#)). Thus, first on the etheric, and then on the astral plane, exact replicas of the physically solid cell are formed: this marks the appearance of the so-called etheric and astral bodies of the cell.

That is why electrochemical reactions occur in a nerve that is transmitting a signal (the ionic code) to the brain cells. It is precisely thanks to these reactions that we possess memory and the potential for developing consciousness. **But how does the adhesion of surplus atoms to the DNA molecular spiral give birth to memory?** Let us try to fathom this miracle of nature.

What, after all, is memory and why does it appear? How is it that when we remember something, so that a little later or even much later — perhaps decades — the sought-for information appears on our mental screen in all its original precision and clarity?! Why do some things stick in our memory forever, while others disappear — vanishing into thin air like a morning fog touched by the rays of the rising sun -no matter how hard we try to recall them? What capricious genie and what laws of nature dictate what should stay and what should vanish completely?

In order to clear this up, let us take an imaginary journey to a single brain cell and try to peep into the magic laboratory of memory. For a start, we shall try to understand what transpires in the

brain cell when **short-term memory** is taking shape.

Inside an **undisturbed neuron** is an etheric body which exactly matches the structure of the physically solid neuron. Their qualitative difference lies in the fact that the physical neuronal body is formed by the mergence of seven primary matters, **A** through **G**, while the etheric body is composed of but one primary matter, **G** (see [Fig. 72](#)). The neuron's **DNA** molecule, when stimulated ("disturbed"), acquires additional chains of atoms from the resulting electrochemical reactions. It is precisely these extra chains of atoms that play a pivotal role in the creation of our memory (see [Fig. 73](#)).

But how does the appearance of additional atoms in the molecular structure of **DNA** molecules lead to a qualitative leap in the development of living nature? What manner of "divine" transformation unfolds in living matter during the birth of memory and the "miracle" of consciousness? As the mystical haze surrounding this miracle fades like a morning fog under the sunrise, **the simple naked miracle of nature remains...**

Let us recall that, thanks to its huge molecular weight and spatial configuration, the **DNA** molecule exerts a crucial influence on its surrounding microcosm — such that, within the inner space of its spirals, the qualitative barrier between the physical and etheric is **ruptured**. This opening of the barrier leaves the **DNA** molecule intact but disintegrates the molecules trapped inside the interior space of the **DNA** spirals (see [Fig. 22](#), [Fig. 23](#), [Fig. 24](#)).

The self-dimensionality level inside the spirals' interior space is so high that most of the molecules **trapped there become unstable and disintegrate into their constituent primary matters** (see Ch. 2). These released primary matters then begin to flow onto the etheric level where they create an exact replica of the **DNA** and of the cell as a whole. The replica differs from the original only by virtue of its being formed from one primary matter, **G**. That is why the appearance of the extra **DNA** molecular chains (see [Fig. 73](#)) causes the etheric copies of these molecules to undergo similar changes (see [Fig. 74](#)).

Now, let us recall that a group of ions, representing the ionic code of a piece of the environmental image, enters through an axon of the optic nerve. For this reason, **DNA** molecules acquire several additional chains of atoms according to the dictates of the ionic code. **Thus, an etheric imprint of the ionic code, corresponding to a section of the surrounding reality, appears on the etheric level of the neuron.**

Also, we may recollect that the retina contains millions of light-sensitive cells — rods and cones. For this reason, whatever the eye sees of our surrounding reality, at any given moment, will make an etheric imprint of its ionic code projected onto the etheric level.

Now, let us imagine that we have an etheric imprint (at the etheric level) on a perfectly flat, smooth surface, which we shall take as our zero baseline. If we now project the ionic codes of our external reality onto this baseline surface, it becomes transformed and begins to develop peaks and valleys. Cavities and bulges appear. **The surface acquires a roughness which reflects the qualitative structure of the optical signal.** All this is reminiscent of something very familiar and obvious — an achievement of modern science, a technical miracle — the holographic recording of an object's image. For those unfamiliar with the concept, let us try to grasp the technological principles of the hologram.

A laser beam (monochromatic or coherent light) is split into two beams, one of which is reflected from the object to be photographed, while the other remains unchanged. When the two beams merge, a phase picture (interference pattern) of the object results, following which the phase picture is recorded on the surface of a plate; this causes the plate's surface to become rough. And when this rough surface is illuminated by monochromatic or white light, a three-dimensional, colored image of the object appears. To distinguish a real object from a good hologram is optically impossible. The illusion of reality is so great and the objects so realistic in appearance that people have actually tried to steal them -only to be sorely disappointed at their "treasures."

Now let us return to our analysis of the optical signal being transmitted.

As the ionic code traveling through the axon reaches the neuronal body it alters the latter's ionic balance, thereby triggering additional chemical reactions leading to the rupture of and the creation of new electron bonds in the **DNA** molecules. The structure of these bonds reflects the new ionic code and thereby changes the etheric imprint of the neuron.

The question then arises — **how does altering the structure of the etheric body create an optical image in our brain?**

At this point, we are nearing an understanding of the **DNA** molecule's unique qualities. The **DNA** molecule consists of **two spirals** (the "double helix"), each oriented to the other about a common axis. Each of these spirals leaves its own imprint upon the etheric level and each separate imprint completely repeats the form of the spiral on a physical level. The apices of one spiral fill in the intervals between the apices of the other, together forming a kind of cylinder. Moreover, the surface of such a cylinder is similar to the surface of any geometric cylinder.

Now let us consider a section of the **DNA** molecule's etheric imprint before the entry of the ionic code (see [Fig. 75](#)). As soon as the latter enters, the ionic balance inside the neuron changes, triggering the formation of new and the rupture of old electron bonds. **Consequently, the surface of the DNA's "cylinder" is changed** (see [Fig. 76](#)).

As a result, a peculiar interference pattern of an image appears upon the etheric level. This is similar to an **interference pattern** produced to create a hologram of an object. An amazing parallel, really. It appears that already — billions of years ago — nature made and introduced into life all of science's greatest discoveries.

In sum, **the light reflected from the object** and striking the photosensitive retina is **transformed into an ionic code** which is transmitted via the optic nerve to the optic zone neurons of the cerebral cortex. Then, within the neurons, **the ionic code becomes transformed into a chemical code, which, in turn, shows itself on the etheric level as an image's interference pattern.**

Now, primary matters moving between physical, etheric, astral and other levels strike the interference pattern and **reproduce the real image exactly as monochromatic light creates a hologram of reality**. What we see is **not the reflection of reality, but its reconstruction in the form of a holographic copy**. Constructed by the brain, the holographic copy of reality coincides with reality itself, thereby enabling us to orient ourselves in the surrounding world. So, what actually is the reality around us? A creation of our brain, as subjective idealists assert — or a mirror reflection in our consciousness of objective reality, as materialists insist? Neither is correct. **Our brain actually constructs an identical holographic copy of reality.**

The question then arises — what kind of reality does the human brain reconstruct? Should we consider as "true" the reality accepted by the majority? If nine out of ten born-blind people have never glimpsed the world's beauty, and one sighted person tries to convince them of its reality, does that make him wrong and what he sees the product of a lunatic's delusion? The majority is not always right just because it is the majority.

Of course it is futile to try conveying to the blind the beauty of a sunrise, the crystal blueness of the sky, or the emerald depth of fields and forests. They are incapable of grasping all of that, no matter how impassioned the attempt -it is simply impossible. **The only way to reach the blind is to make them sighted.** Then everything will make sense to them. Unfortunately, human nature does not cooperate in such endeavors.

In essence, the things we see are holographic copies of reality, created by the brain. Now that we have considered this process, we may well raise the question — is it possible to influence this process, to change it or to neutralize it completely? Theoretically and practically, the answer is "yes." To accomplish this, we would have to remove one image and replace it with another. Is this really possible? Actually it is — if we **neutralize** the ionic code of the first image and **create** a new ionic code for a second image. This will induce the neurons of the cortical optical zones to reproduce a holographic copy of the desired reality artificially created by someone else's fantasy. It is as if one picture has been erased and another one recorded. And a person subjected to this process

would be incapable of telling the false picture from the original one. More precisely, he would not even notice the substitution. Some people have a natural ability to create visual signal-images from fantasy. If they are strong enough to suppress the subject's own brain signals, the subject will see whatever the perpetrators want him to see.

A similar phenomenon occurs during radio wave reception. If your receiver is tuned in to a certain radio station having the same frequency as another station with stronger signals or located in close proximity to your receiver, you will hear only the second radio station because of its more powerful incoming signals — your wishes notwithstanding.

So, to resume our look at how the human brain is subject to influence and manipulation...

Response to manipulation varies from person to person.

If one has a powerful protective shield (see [Fig. 31](#)), he is almost always impervious to influence. The protective shield isolates the brain from outside manipulation so that only a much more powerful signal can neutralize it.

However, people with a **weak, defective or destroyed personal shield are easy targets to outside influence** — actually to any kind of influence. People under emotional arousal, or in trance state, are also very vulnerable. That is why a demagogue who wants to sway the masses first inflames them and destroys their emotional equilibrium.

Fortunately, there are not so many people capable of creating powerful signal-images and most of them are unable to create widespread psi fields that can encompass huge areas. Usually such talented individuals discover their abilities accidentally.

For persons possessed of the ability to wield power over man and other species, this is the hardest challenge they can face. Some revel in such power and become monsters, while others experience it as a huge responsibility to their fellow men and opt for the path of Light...

We shall examine the methods and mechanisms of influencing human consciousness in greater detail later.

Meanwhile, let us return to the ionic code which charged its way into the neuron. As already noted, such an event changes the ionic picture within the neuron, leading to the creation of new and the destruction of old electron bonds. This, in turn, creates qualitative changes in the structure of the **DNA** molecule's etheric body (see [Fig. 73](#), [Fig. 74](#)). As a rule, such changes in the qualitative structure of the **DNA** molecule and its etheric body are unstable and disappear once the signal stops.

The neuron's ionic picture returns to its former state and the brain is ready to receive new optical information. Concomitantly, the **DNA** molecule returns to the structure it had prior to entry of the ionic code (see [Fig. 77](#)). The etheric body of the **DNA** molecule also rapidly returns to its initial state (see [Fig. 78](#)). An imprint on the etheric level disappears with the same regularity as footprints on a sandy beach under the impact of a surging wave.

Such a reaction to the impact of the ionic signal is normal and inevitable for the optic zone of the cerebral cortex; otherwise the reality we see upon opening our eyes would remain forever fixed and turn us all into the "sighted blind."

The neurons of the optic zone are well adapted for their specialized function, which **enables the optical signals, under normal conditions, to leave their imprint only upon the neurons' etheric level**. That is why visual images change with a frequency of twenty-four frames per second, which is quite enough for rapid orientation to the environment.

All sense organs supply the cerebral cortex of humans and other species with ionic codes. Processes unfolding in the corresponding zones of the cerebral cortex are mainly analogous to those occurring in the optic zones; therefore any external stimulus via the sense organs imparts **an informational imprint of whatever duration is needed** for the brain to analyze these signals and react appropriately.

During the natural selection process, unfolding over billions of years, all those gene pool carriers were selected whose reaction to external informational stimuli was of optimum speed, while

all mutations diverging from normal reaction time were mercifully terminated by nature herself. This is perfectly understandable. Any living organism unable to escape its enemies fast enough inevitably becomes their dinner. Or, if an organism's reaction time is too slow, he is inevitably left without his dinner. In both variants, the organism is certain to perish.

Thus, an external informational stimulus creates an imprint of brief duration upon the etheric bodies of neurons of the corresponding cortical zones. Such an imprint exists

for a given period of time ( $\Delta t < 0.041666667$  seconds for optical signals) and triggers chain reactions inside the organism. The brain not only receives external signals but also compels an organism to react adequately to these signals. Additionally, to achieve an adequate reaction, the brain enlists thousands, and sometimes tens of thousand, of cerebral and peripheral nervous system neurons to activate this or that group of muscles or other functions of the organism as a whole.

External informational stimuli are **retained in the brain for exactly the length of time needed for the organism to respond**. That is, **the brain remembers and keeps an imprint of the stimulus as long as necessary for the organism to react**. Actually, the stimulus imprint can be retained in an interval ranging from a fraction of a second to weeks or months depending on the cortical zone in which it was created.

In sum, an external stimulus regularly produces the imprint of its ionic code upon the etheric level of the brain, **thanks to the spatial structure of the brain cells' DNA molecules**, which play a key role in the process. The imprint vanishes from the etheric level as soon as the spatial structure of the DNA molecule **is returned to its original state prior to the entry of the signal's ionic code**.

This occurs **because the additional microspace deformation induced by the DNA's re-shuffling of old and new electron bonds also disappears**. A puddle cannot exist without a hole in the ground: by the same token, an external signal's imprint upon the etheric level cannot exist without the alteration in the DNA's spatial configuration (see **Figs. 72-78**).

This also relates to the fact that **electron bonds are not stable in time**. So when the DNA's new electron bonds disappear, changes in the DNA's etheric body largely disappear as well, and the qualitative molecular structure **reverts to the level it had prior to entry of the external signal**.

From the above analysis, we come to understand the nature of short-term memory. The question then arises -what is long-term memory?! What needs to happen with a neuron's DNA molecule, so that an incoming signal's imprint will not disappear once the initial pre-stimulus spatial structure is restored?

The answer is very simple. **The external stimulus must create its imprint upon a minimum of two levels of the neuron — etheric and astral**. But how does this come about?

Let us recall that the signal's etheric imprint appears as a result of the additional microspace deformation caused by the DNA molecule as it acquires, through chemical reactions, a surplus of atom chains or loses some of its existing ones (see [Fig. 79](#)). These qualitative structural changes cause an **additional deformation** on the etheric level which exactly replicates the molecule's change in configuration. Within the DNA molecule itself, the molecules trapped in its inner space disintegrate, releasing their primary matter by-products in an overflow onto the etheric level.

Along with this overflow, further deformations on the neuron's etheric level are being filled by primary matter G, causing the DNA's etheric body to grow "heavy" and put on additional "weight" (see [Fig. 80](#)). When, however, the disintegration process inside the cells is weak, the etheric deformation on the etheric level can only be filled in slowly. Thus, **supersaturation by matter G of the extra deformation does not occur, so further deformation at the cell's level cannot develop**. But since the duration of the DNA's surplus bonds is limited, a signal imprint on the etheric level very often **vanishes before a matching imprint of the neuron's astral level has time to appear**. So how to achieve the appearance of a signal's imprint on the astral level? There are two possible ways:

- 1. First, is to increase the active circulation of primary matters between the physical and**

**etheric levels**; this will ensure that the extra deformation on the etheric level is completely filled by primary matter before the physical imprints of the stimulus disappears. Continuous saturation of the etheric level with **G** matter leads to a huge flooding of the etheric imprint, causing further micro-space deformation on the astral level. The latter, in turn, becomes flooded with **G** and **F** matters, which form an astral imprint of the incoming signal (see [Fig. 81](#)).

2. Secondly, **we may apply multiple repetitions of a stimulus upon the same neurons, at intervals less than the time required for the etheric imprint to vanish**. This gradually saturates the etheric imprint to a level that triggers deformation on the astral plane; with saturation of the latter, an astral imprint is formed.

By way of analogy, we may picture a fountain with two reservoirs, one of which is fed water through a single pipe. In order to fill the second reservoir, water must initially fill the first one to overflowing, after which the second one starts to receive the drain-off. Now let us imagine that the reservoirs can be filled only if the pipe remains completely open. However, if we open the pipe for just five minutes at a time, the first reservoir would be only partially filled, while the second would remain empty. However, if the faucet is unable to run continuously and can only stay open for five-minute intervals, the only way we could fill both reservoirs is to repeatedly open the faucet for five minutes at a time until both tanks are completely filled.

Now let us return to the phenomenon of long-term memory and consider **under what conditions the etheric and astral imprints of an incoming signal may be generated**.

Hyperactive (i.e., higher than normal) circulation of primary matters occurs within the cells **only when a subject is in a state of stress or undergoing a heavy emotional discharge** (which is tantamount to the same thing). Any shock a person suffers during his lifetime remains engraved on his memory down to the smallest details, no matter how long ago it occurred.

Vivid pictures of the unusual or the shocking, the beautiful or the unique, the dangerous or the blood-curdling -emerge from the fog of our memory in all their vivid freshness and clarity, as though they had just transpired. So where does our brain store all this information and how is it able to retrieve it?

**Under stress or emotional excitation**, the metabolic activity within all cells, including the cerebral neurons, is several times greater than under normal conditions. This leads to a much greater disintegration of the intracellular molecules into their constituent primary matters, triggering a far more robust circulation from the physical to the other cell levels. As a result, the incoming signal to the brain acquires a potential sufficient to create both etheric and astral imprints upon each of those levels.

That is why, following restoration of the **DNA** molecule to its original qualitative structure (prior to the stimulus input), the etheric and astral imprints are preserved. **The system — etheric imprint/astral imprint** — represents a stable formation in and of itself, the integrity of which receives continuous support from streams of primary matters generated by the continuously disintegrating organic and inorganic molecules inside the neurons.

Microspace deformation, of both etheric and astral levels, by etheric and astral imprints of an incoming stimulus ensures mutual stability thanks to the back-and-forth circulation from etheric to astral and astral to etheric (see [Fig. 82](#)). **These counterflows of primary matters make for the stability of the system — etheric/astral — of the incoming signal imprints**.

As previously noted, **the rising flow of primary matters stems from the disintegration of organic and inorganic molecules inside the DNA's inner space, where they become trapped in zones of dimensionality levels far too great for them to withstand** (see Ch. 2).

The descending flow of primary matters is due to the fact that the rising flow creates a **huge concentration of G and F matters**; some of these then start moving in a reverse direction, from astral to etheric, **projecting the signal's astral imprint down to the etheric level, which makes it impossible for the latter to disappear**. Thus, a stable, closed system appears, which serves as **the basis for the phenomenon of long-term memory**.

To fully grasp the nature of long-term memory, the only remaining piece is how the ionic code of the incoming stimulus is recovered on the physical level — without which the brain would be unable to recreate the pictures of both recent and not-so-recent past.

The retrieval of the ionic code on the physical level and the brain's subsequent reconstruction of past events — seemingly swept away irrevocably by the troubled waters of the river of time — this is truly another of living nature's many miracles.

What magic spell is needed to resurrect past events that one cannot see, feel or sense in the present? Yet, the miracle of memory transports us — as if in a time machine — back to our own past, where we can experience and feel this or that event of our life in all its original clarity — over and over again.

So we can never cease marveling at the magic of nature!

On occasion we have all had to strain our memory, for one reason or another, literally as well as figuratively. So, when striving to recall something, we often experience quite a physical strain, with heart racing and pulses pounding — all of which bespeak a speeding up of the activity in the brain cells themselves. **This causes a higher than usual number of molecules, per unit of time, to become entrapped inside the cells. Here, unable to escape the impact of the DNA molecules' dimensionality level, they disintegrate into their constituent primary matters.**

Concomitantly, etheric imprints of the ionic signals of past events receive an excessive saturation of **G** matter, resulting in a reverse flow of **G** matter from the etheric to the physical level (see [Fig. 83](#)). An etheric projection of the external signal appears on the physical level, leading to a change in its dimensionality level.

As atoms and ions, possessing their own corresponding dimensionality levels, move into the projection zone, **they restore the molecular structure of the DNA molecule which it originally had upon entry of the external stimulus** (see [Fig. 84](#)). This restores the ionic code of the original stimulus, enabling the brain to wrest from the depths of memory the data about bygone events, which seemingly lay buried forever in the graveyard of the past.

Now, let us explore **the second alternative for formation of the etheric and astral imprints of the external stimulus**. To facilitate our task, let us mentally revisit our school days and recall the well-known saw that **repetition is the mother of learning**. And, once recalled, we may try to grasp this well known dictum widely held and universally experienced — which no one, seeking to fathom this natural phenomenon, can possibly doubt.

Material, repeatedly read and recited, is engraved on our memory forever — or, at least, for substantial periods of time. Thus, one and the same sense stimulus, most often visual or auditory, enters the brain at varying time intervals; that is, **one and the same ionic code of an external stimulus enters the same neurons of the corresponding optical or acoustic brain centers at regular time intervals**.

If the intervals between signals are shorter than the "life span" of the signal's etheric imprint, the repeated bombardment **does not allow this imprint to fade away and "die."** Thus the "life span" of the etheric imprint is prolonged and becomes a long-term memory. **If the repeated signals keep recurring regularly over an interval sufficient to create a complete astral imprint, it will become permanent.**

Thus, **the external event or phenomenon will be engraved on our memory forever**. But then, the easily-answered question arises as to why, in the process of increasing the etheric imprint's life span, **the ascending flow of primary matters manages to completely saturate the signal's etheric imprint with G matter (as occurs in stress situations) — even when the neurons' metabolic activity is not particularly vigorous?**

The answer lies in the following: the etheric imprint's self-dimensionality changes, and this leads to a rupture of the qualitative barrier between etheric and astral levels and an opening into the microspace of the signal's etheric imprint. This is precisely what initiates the formation of the external signal's astral imprint. **If the life span of the event is long enough to allow creation of a sta-**

**ble and full astral imprint, the brain remembers this external stimulus (event, phenomenon or information) forever.**

But then, we may ask, how many repetitions are needed for that to occur? Some people have a memory so phenomenal that reading, seeing or hearing a stimulus once is enough to engrave it forever in their memory. It also means that the life span of this one etheric imprint is sufficient to form a stable and complete astral imprint of the external stimulus.

There are also some who, even with myriad repetitions, are unable to remember anything. Sometimes it is due to genetic damage, in which case the life span of an etheric imprint is so small that it **vanishes from the etheric level before the repeated signal enters**. At other times, dysfunctional memory is the result of infectious agents in the spinal fluid and the secretion of their toxins, which impact the brain cells **by changing their ionic composition and slowing down their internal exchange processes**.

In that case, the ascending flow of primary matters to the etheric imprint is too weak **to ensure saturation of the imprint by G matter in sufficient concentration to open a qualitative barrier between the etheric and astral levels -without which an astral imprint of the signals cannot be created**.

In some cases of this type, formation of short-term memory is possible. **But if the ascending flow of primary matter is too slow to saturate the etheric imprint with G matter faster than the imprint loses its G matter, short-term memory is not a possibility either.**

In most cases, peoples' ability to memorize falls between these two extremes and also changes with age. It usually ranges from maximum ability in childhood to fair or poor in old age. This is because when people age, the harmony between all cell levels of the organism, and especially harmony between the brain cells, is disrupted. This retards the active movement of both ascending and descending flows of primary matter between the cellular levels. (For details see Ch. 2 *op. cit.*).

The most violent disruption of harmony occurs **in the circulation of ascending and descending flows of primary matters between the astral and etheric levels of the neurons** — until the moment arrives when circulation between these levels stops completely (see [Fig. 85](#)). This leads to the brain's inability to "extract" its stored information. Short-term memory still continues to function but the etheric imprint's life span just becomes considerably shortened. **This is due to the fact that circulation of primary matters between etheric and astral levels is also weakening**. Consequently, the **saturation speed,  $V_1$**  of the etheric imprint by G matter is lower than or equal to the speed of loss,  **$V_2$** , of the imprint's G matter. A person whose short-term memory is in such a state very quickly forgets information.

As the disharmony progresses, circulation between the etheric and physical levels finally reaches a point where  **$V_1$**  the saturation speed of the etheric imprint becomes substantially lower than the speed of loss,  **$V_2$**  (see [Fig. 86](#)), at which point the short-term memory ceases.

This marks the onset of senility, when a person's behavior hardly differs from that of an infant, except that the latter's brain is at the first stage of development and the former's is at the last. One has everything ahead of him; the other has it all behind him.

Calcification on the vascular walls, especially in the capillaries, profoundly affects the exchange processes in the neurons, abruptly decreasing the number of ions and molecules, both organic and inorganic, that disintegrate within the cerebral neurons per unit of time.

As a result, the ascending flow of primary matters from the physical to the etheric level becomes so weak that creation of a stable imprint becomes totally impossible — in which case we can remember nothing at all.

Let us now examine some questions connected with problems of memory. Many of you are familiar, or at least acquainted with, the disease of amnesia (i.e., temporary or permanent memory loss). To begin with, let us try to understand how it is possible to lose memory. After all, it is hardly a money-laden purse that can be snatched away—so what happens when we lose it?

First, we should note that only long-term memory can be "lost." So let us start by exposing the

"petty thief." You will recall that long-term memory in itself constitutes a system consisting of etheric and astral imprints of external stimuli. Further, **this system is quite stable and self-sustaining**, thanks to the continuous circulation of primary matters between the neuron levels.

Ascending and descending flows of primary matters saturate the etheric and astral imprints. Within this system, the etheric imprint is less stable than the astral, since the latter **is formed by the synthesis of two primary matters, G and F; this hybrid form, GF, qualitatively differs from free primary matters and imparts considerable stability and inertness**.

However, the etheric imprint itself represents deformation of the etheric level which is filled with **G** matter. As soon as the etheric imprint is destroyed, **G** matter merges with the other free primary matters — in essence this **G** matter "escapes" from the etheric imprint. The process is akin to water sweeping over and filling up a footprint on the shore, as it merges with an incoming wave and "sucks out" the footprint from the sand. So what kinds of "storms" generate waves capable of "sucking out" an etheric imprint and liberating **G** matter from its temporal prison? They are: stress, concussion, mechanical brain damage, various types of radiation, etc. All share the same mechanism of action; **they destroy the etheric imprint of the incoming signal, without which long-term memory is impossible to achieve, even if the astral imprint remains undamaged** (see [Fig. 87](#)).

Most often cortical streams of primary matter spring up like tidal waves, flooding the etheric level and other sections of the brain, wiping out everything in their path. The etheric imprints, incapable of withstanding them, vanish without a trace (see [Fig. 88](#)). The astral imprints of incoming stimuli are quite stable due to their inertness which stems from the qualitative difference between astral and etheric imprints. This is because an astral imprint is derived from the merging of two primary matters: such a hybrid possesses qualities distinctly different from its two constituent free matters taken separately. Consequently, to destroy it — that is, to "liberate" its constituent matters from their mutual bond — would require an impact far greater than that required to wipe out an etheric imprint.

Thus, in most instances, after the "storm," the astral imprints of an incoming stimulus are preserved. And they are precisely the basis and means of recovering memory. To grasp this next secret of nature, let us do a kind of "autopsy" on this unique natural phenomenon.

Let us recall that while an etheric imprint succumbs quite readily to one or another "storm," the astral one survives (see [Fig. 88](#)), thanks to its stronger, more stable structure as the hybrid **GF**, created by the merging of free matters **G** and **F**.

For memory retrieval, the following conditions are necessary:

**1. Restoration of normal blood circulation to the brain in order to restore the brain cells' metabolic activity.** The normal functioning of any cell requires a constant supply of both organic and inorganic molecules, as well as ions, plus the removal of their disintegration by-products.

**2. Restoration of ascending and descending flows of primary matters between the neurons' physical, etheric and astral levels until optimal levels are achieved.**

**3. Abundant saturation of the external signal's astral imprint by primary matters G and F.**

Now, step by step, let us try to grasp the basic mechanism of memory itself..

Primary matters are released as a result of the disintegration of organic and inorganic molecules that are trapped in the inner-space "zone traps" of the **DNA** molecules. An ascending flow of these free matters then pierces all levels of the brain cells, thereby saturating the astral imprint of an external signal with **G** and **F** matters (see [Fig. 88](#)).

**If the speed,  $V_1$  of saturation of the astral imprint by primary matters, exceeds the speed,  $V_2$ , of their loss**, a gradual buildup of **G** and **F** matters results. Further, the counterflow ruptures the qualitative barrier between the astral and etheric levels from the "opposite" side — that is, from the astral to the etheric level.

Thus, an astral projection of the external signal's imprint appears upon the etheric level (see

**Fig. 89**). If this process is sufficiently robust, **the projection will seamlessly turn into a corresponding deformation of microspace on the etheric level, as the filling of the latter with G matter produces a new etheric copy, the exact replica of the astral imprint** (see **Fig. 90**).

Now, **if an abundant saturation of the etheric copy by G matter can occur, this will cause a reverse flow of G matter onto the physical level. And, upon the physical level, an etheric projection of the signal is now created** (see **Fig. 91**). The etheric projection upon the physical level, in turn, alters the microspace in the projection zone to the correct dimensionality needed to restore the ionic code (see **Fig. 92**)

And thus, the lost memory is now retrieved...

Concluding our disclosure of memory's mysterious nature, let us, for the sake of complete clarity, summarize the steps of its creation:

- 1. An incoming stimulus, or signal, is transformed by our sense organs into an ionic code.**
- 2. The ionic code travels along the nerve cell extensions, i.e., the axons, and reaches the appropriate brain cells without being changed.**
- 3. Inside the brain cells, the ionic code imposes new, obligatory electron links on the DNA molecules.**
- 4. This results in a qualitative change in the structure of the DNA molecules.**
- 5. Such qualitative changes in the DNA molecular structure are maintained temporarily, after which the latter reverts to its initial state.**
- 6. During its "life span," the ionic code forms an imprint of itself upon the etheric level.**
- 7. The "life span" of the etheric imprint determines the duration of the short-term memory.**
- 8. Stresses, strong impressions and multiple repetitions of the same external stimulus ensure the formation of an imprint on the astral level.**
- 9. The duration of an external signal's astral imprint is virtually unlimited.**
- 10. An astral imprint is created from hybrid matter, GF, stemming from the mergence of G and F matters inside the zone of the external signal's astral projection.**
- 11. Etheric and astral imprints of the external signal together constitute the system of long-term memory.**
- 12. If an etheric imprint is destroyed in the system of long-term memory, it can be restored through the reverse projection of an astral imprint upon the etheric level.**

Before proceeding to the mystery of consciousness and how we may solve it, let us take special note of the fact that **the recording of information occurs on the etheric and astral levels of the brain**. The **physical** brain is merely a tool by means of which the recording of information takes place. That is precisely why researchers in brain physiology have never been able to determine where the brain stores its information.

The Chinese philosopher Confucius has said: "You cannot find a black cat in a dark room if the cat is not there." But — even more confounding — is the question of life after death.... This has baffled both genuine and armchair philosophers alike, as well as priests, scientists and just about every mortal who, quaking before the inevitable, has asked himself — what will happen to me when I take my dying breath and my last spark of life fades away? Can it be that everything stops and disappears without a trace — the feelings, the dreams, the ideas and creations that have defined my life? Is it truly possible that all these vanish irrevocably into the silent and awesome universe? All who read this book will be able to answer this question. There is no need to develop a blind faith in life after death, only because you are afraid...

To get an answer we need only to grasp the basic concepts and strive to understand them; if we do not try to conflict with **nature**, she will gratefully open up to us and reveal her innermost se-

crets...

But before reaching any conclusions about life after death, let us probe deeply and try to unveil that other great enigma of life — **the mystery of consciousness**.

## Chapter 6. The nature and origin of consciousness

Consciousness — mind — what are they? How do atoms and molecules, conjoined in a particular sequence, come to realize their own existence in time and space? How do they start contemplating the vastness of an infinite universe and pondering whether matter or consciousness was first to appear?

Did each and every particle, like some weary traveler, traverse endless realms of creation — God-forsaken, buffeted by His Majesty, **CAPRICIOUS FATE**, lost in infinite space

- until, finally, respite and a chance to share the mystery of their pursuits were granted? And even before joining in a single unit as living matter — that true miracle of nature -these particles came together over and over again, only to disintegrate into dust within a **life span ordained by nature** — like a phoenix rising from the ashes, to be reborn in a new likeness — a process repeated countless numbers of times.

So, again we may ask — what is consciousness — what is mind? Is it merely the memory of the particles that carry it, or is it a manifestation of "Infinite Mind?" If so, what is it all really and where did "Infinite Mind" spring from? Perhaps the answer to this miracle is not so far away but resides right in front of our very eyes. Perhaps the only thing we need is a little more attention and watchfulness, and quite possibly the clue will appear, like Ariadne's guiding thread, to lead us out of nature's Minotaurian labyrinth — the mystery of **CONSCIOUSNESS**.

So let us try to journey to — we know not where and discover — we know not what. Perhaps not only in myths and fairy tales can such things be accomplished. Most of all, we must not throw up our hands in despair of ever achieving a seemingly impossible task.

Indeed, the riddle of what consciousness really is has not changed one iota since the Greek philosophers hotly disputed it. And like the blind men describing the elephant, the philosophical direction of mankind's thinking — from objective and subjective idealism to metaphysical and dialectical materialism — has not budged this mystery of nature a single inch. And, as a new millennium approaches, this question remains as open as it was at the dawn of civilization.

So what, then, is **CONSCIOUSNESS**, what is **MIND**...?

To answer this question, we need to define the qualitative differences in processing that unfold inside the brain of an intelligent being, who, we may rightly say, shows **reason, UNDERSTANDING**. And, what is the distinction between purposeful and unwitting behavior? To begin with, let us define the qualitative processes occurring in the brain of a living being who, in our view, is exhibiting conscious activity. In such a brain, the surrounding world is constantly being reflected through functions of the sense organs.

At the same time, as we have noted extensively in the previous chapter, any outside stimulus creates an imprint upon the etheric and astral levels of the brain neurons.

Temporary imprints on the etheric level of the neurons are a manifestation of short-term memory, the major role of which is concerned with the mechanism of orientation to one's surroundings. Subjects and objects of the surrounding world create, through the function of the sense organs, qualitative changes in the brain cells' spatial structure. This enables a living organism to orient itself in its environment and to perform the activities and reactions necessary to its survival.

Our eyesight enables the brain to recreate a holographic copy of our external environment and the spatial orientation of the components of this reality relative to each other. But, other than that, judging only by outer appearances, we cannot tell anything about **the qualitative conditions of our surrounding reality**.

The sense of touch is more helpful in this regard since our skin receptors react to heat and cold; to pressure, density and shape and to the various forms of matter (solid, liquid, gas, plasma) that characterize the elements of our surrounding reality. This provides us a qualitatively different layer of information about our environment.

Along with touch, the sense of smell helps us get some idea of the composition of air, water, food and all the other elements surrounding us in our everyday life.

Hearing enables us to discern the direction of a possible danger, or conversely, a potential prey, long before we can spot them.

But, in sum, all our sense organs just enable us to react appropriately to constantly shifting conditions in our environment, which, of course, is crucial to all living creatures, including ourselves. However, the effect on our nervous system of this or that sensory signal lasts only long enough for the organism **to react appropriately**. Following that, the sense organs and nervous system are ready for the perception of new signals.

Thousands of signals bombard the brain ceaselessly, minute by minute, hour by hour, day by day. Even in sleep, the sense organs continue to work, ready to rouse the body to its full active state. Otherwise an organism could easily fall prey to two- or four-legged predators. All creatures unable, for one reason or another, to detect danger and react on time have perished in the cruel struggle for survival. And all that makes sense, given the huge variety of living organisms that abound, including man.

So, for twenty-four hours a day, information from the environment enters the brain through the various sense organs. The brain sifts all this information through its "sieve" and responds only to those signals having a bearing on preservation of life or integrity. All the other information flows through the brain in a wide and abundant "river," unnoticed and unheeded by us. However, although unheeded, this does not imply that the information has no influence on the brain. So let us explore just what kind of influence it actually exerts.

Any information entering the brain from the environment, whether copious or meager, whether momentary or forever, **alters the qualitative structure of the brain. In the case of a brief alteration**, the external signal creates an etheric imprint only, which, more or less rapidly, depending on its function disappears after the signal's arrival. This constitutes short-term memory. **When the qualitative alteration of brain structure is lengthy**, the signal creates an imprint on both etheric and astral levels. In this case, **the footprint on the qualitative structures of the brain is virtually permanent** (long-term memory).

It is precisely the process of long-term memory formation that holds the key to the seemingly elusive, intangible, mirage-like stronghold of consciousness. Like the Flying Dutchman, the nature of consciousness, obvious though it is, has remained a mystery, sealed "under seven seals," throughout the course of several millennia.

Scientists and philosophers have argued endlessly about whether consciousness or matter came first, but forgot the fact that the concept of consciousness has been discussed without any explanation at all. So, for example, dialectic materialism came up with a more or less acceptable explanation of matter **as objective reality apprehended through our senses**. As for consciousness, they could invent no better explanation of its manifestations than to assign it **the same qualitative status** as "objective reality," that is, something "given to us through the senses."

A rather shocking misuse of logic, is it not?

And, in turn, the idealists hardly fared better in advocating the primacy of consciousness — the "Absolute," "absolute idea," logos, or the Supreme Being, who created the "objective reality" surrounding us.

And yet, we should realize that the very question itself as to which is primary is an absurdity — as absurd as "which came first, the chicken or the egg?" A chicken does not exist without an egg, and vice versa. **By the same token, consciousness does not exist without matter, nor matter without consciousness. For these concepts are inseparable and cannot exist without each other.** Further, the concept of matter is much broader than modern science can imagine, and consciousness has numerous states that differ from each other qualitatively.

Above all, let us distinguish the two main criteria of consciousness:

1. Awareness: distinguishing oneself from the environment as a carrier of consciousness;

## 2. Harmonious interaction of the bearer of consciousness with the environment.

If we examine man through the prism of these criteria we can discern how rational he is as a carrier of consciousness. And if *Homo sapiens* alienates himself too much from the surrounding nature, his harmonious interaction with the environment is severely compromised. Regrettably, the human species has embarked upon a veritable war with nature instead of living in symbiosis with it.

To achieve harmony with nature, man does not have to return to a state of savagery and wait for nature to give him what she wishes. Rather, he needs to learn the laws of nature and use this knowledge wisely to implement qualitative changes in the environment that will not disrupt the harmony of the ecological system. Fortified in this way, man could control the planet's climate, control the elements and live in harmony with all the other creatures on the planet that have, perhaps not less, but even more right to breathe clean air, drink clear water and pass the gift of life on to their descendants. It is astonishing that man looks upon nature with the eyes of a conqueror, rather than seeing it as a child to care for and nurture. And as long as this state of affairs continues, we should regard man as a **potentially rational race**, like a newborn with everything still ahead of him. It is hoped that this "infantile phase" will not last so long as to destroy nature's "kindergarten" and ruin any chance he may have to enjoy it.

In the meantime, let us try to penetrate nature's mysteries and return to solving the riddle of consciousness. Matter and consciousness, consciousness and matter: unity and antithesis are implicit in these two concepts. Consciousness implies rational behavior by those endowed with it. Reason, in turn, calls for reactions that are appropriate to what is happening in the environment.

Appropriate behavior in itself implies that conscious individuals show **the best and most rational responses**. So, those who possess consciousness characteristically display such rational behavior which, at any rate, must manifest itself through material objects. In other words, consciousness is manifested in matter that is organized in a specific way. So let us define what kind of organization matter must have in order to possess the ingredients of consciousness.

Humans tend to sort matter into the animate and inanimate, forgetting that both are formed from the same atoms. Further, any atom of animate matter sooner or later will become part of inanimate matter, and, conversely, some atoms of inanimate matter will become part of the animate.

This disproportion is reflected in the fact that the amounts of animate and inanimate matter are not equal: matter comprises only an insignificant part of the total mass of the inanimate. Actually both categories are completely capable of transforming into one another: hence, animate and inanimate matter **differ from each other only IN THEIR SPATIAL ORGANIZATION AND QUALITATIVE STRUCTURE**. (For further details, see Ch. 2).

Consciousness arises at a certain stage in the development of animate matter. Therefore **CONSCIOUSNESS APPEARS AS A RESULT OF A PARTICULAR SPATIAL ORGANIZATION AND A PARTICULAR QUALITATIVE STRUCTURE OF MATTER**. It becomes increasingly evident that **CONSCIOUSNESS AND MATTER ARE INSEPARABLE FROM ONE ANOTHER**. For this reason, **the very question as to the priority of consciousness vs. matter becomes meaningless**.

Let us now look at the difference in spatial organization between animate and inanimate matter. Inanimate, i.e., inorganic matter, has four aggregate states — solid, liquid, gaseous and plasma. Only solid inorganic matter has a spatial configuration in which every atom occupies a particular spatial position in relation to its neighboring atoms. For example, in a crystal, atoms form a stable spatial structure known as a crystal lattice.

In this particular setup, the atoms are located at optimal distances relative to one another, such that maximum stability of the whole system is maintained. Each atom is capable of only slight movement around the node of the lattice corresponding to the point of stable equilibrium.

In most cases, the distances between the nodes are commensurate with the distances between the atoms themselves, which obviously permits movement of other atoms and molecules between the lattice nodes. This setup allows only the exchange of one atom by another inside the lattice it-

self.

Further, only those electromagnetic fluctuations having wavelengths equal to the distances between the nodes of the lattice are able to move within the structure. Additionally, partial absorption of photons by the atoms occurs, giving rise to alterations in the dimensionality level of these atoms.

Following the absorption of the photons, the dimensionality level of each atom becomes greater than the previous level it had in its stable position within the lattice, prior to excitation of the crystal. At the same time, the neighboring atoms, located in the lattice's nodes, remain in a fixed position; that is, the excited atoms, after emitting photons, revert to a stable state. However, since the number of excited atoms is usually insignificant, the crystal lattice retains its structure. But when the number of excited atoms in the lattice becomes critical, the latter breaks down and matter becomes transformed from the solid to the liquid state.

For this reason, the three-dimensional organization of the atoms in the crystal lattice **cannot be the basis for the emergence of consciousness** — at least, not on our planet. Qualitatively, the atoms comprising inorganic matter are unable to open the qualitative barrier between the physical and etheric spheres of the planet. However, the qualitative barrier can be opened under other circumstances, such as occurs with radioactive elements. In this case, the atoms of the latter disintegrate, causing the "door" between the planetary spheres to open for a very brief period of time — not sufficient to allow any qualitative changes to unfold on these levels.

The situation is altogether different in the case of organic molecules, especially **DNA and RNA**, which have a **huge molecular weight and a spiral configuration**. **It is precisely these properties of DNA and RNA which make possible the qualitative leap in the evolution of matter.**

Within the inner space of **DNA and RNA**, standing waves of dimensionality develop. **The diameter of these spirals greatly exceeds the dimensions of all the atoms and most of the organic and inorganic molecules in their vicinity**. Only huge organic molecules are commensurate with the diameter of the **DNA/RNA** spirals and therefore undergo partial disintegration inside the cells. As a result of this disintegration, which represents a biochemical process, fragments from the large organic molecules remain. Such fragments, having considerably smaller dimensions, can easily penetrate and enter the inner tunnel of the **DNA/RNA** molecules.

All the molecules, owing to their motility, get drawn into the inner volume of the **DNA/RNA** spirals and become trapped. The dimensionality gradient of the spirals' inner tunnels then **forces** all the molecules caught inside the spirals **to move along the longitudinal axis of the DNA/RNA molecule**. As they move along the axis, all the molecules are subject to the dimensionality gradient (i.e., the dimensionality levels progressively increase and decrease due to the architecture of the inside tunnels). **This gives rise to a standing wave inside the DNA/RNA inner space.**

Most of the entrapped molecules, affected by the dimensionality gradient, are **too small to withstand the impact of the DNA/RNA's greater dimensionality**. This leads them to become unstable and disintegrate into their constituent primary matters. As a consequence, new molecules and atoms develop, which being of smaller size, maintain stability in the face of the decrease in dimensionality. **Similar processes also occur when radioactive elements disintegrate, releasing primary matters, following which stable elements of considerably lower atomic weight are developed.**

The difference between these two processes is that the radioactive atoms themselves disintegrate, whereas the **DNA/RNA** molecules remain intact while only the entrapped molecules inside their spiral space break down. In a manner of speaking, we could think of the **DNA/RNA's** inner space **as the particular "black hole" developed by animate matter**: most of the physically solid matter that enters the "black hole" disappears and changes into another form — **free primary matters**.

Thus, **standing waves of dimensionality**, created by the **DNA/RNA's** spiral structure provide a **SUFFICIENT CONDITION** for the emergence of life and **consciousness**. But again — we may

well ask — what actually is **consciousness**?

Now, let us revisit the process of memory formation, specifically that of long-term memory.

External signals, in the form of an ionic code, are transmitted by the sense organs to the brain, where they create etheric and astral imprints on the etheric and astral levels of the neurons. In the case of long-term memory, these imprints remain forever, or, at least for a very extended period of time.

Let us look at two adjacent neurons on the astral level, with imprints of ionic codes from various incoming external signals (see [Fig. 93](#)).

We may recall that millions of signals from the environment keep entering the brain — a steady input of new signals creating imprints on the neurons' etheric and astral level. That is why, along with the previous imprints, new ones also keep appearing (see [Fig. 94](#), [Fig. 95](#)). Every new incoming signal, making an etheric and astral imprint — i.e., long-term memory — contributes a "brick" to the creation of the "consciousness building" (see [Fig. 96](#), [Fig. 97](#)). **And this process of constructing consciousness — so constant and prolonged -finally causes the neuronal structures on the etheric and astral levels to STICK TOGETHER** (see [Fig. 98](#), [Fig. 99](#)). Adhering thus to each other on the etheric and astral levels, these neuronal brain structures make up **horizontal units of neurons**.

So, before their joining, the neurons are merely adjacent to each other, without any active interaction. After they become united on the etheric and astral levels, **A COMMON STRUCTURE OF THE BRAIN DEVELOPS ON THE ETHERIC AND ASTRAL LEVELS. That is, until then there is merely an aggregate of brain cells that do not interact with each other; after they unite, they become a SYSTEM of mutually interactive cerebral neurons on the etheric and astral levels.** (See [Fig. 100](#)).

Through the developed zones of adjacent neuron linkage, primary matters begin to overflow from one neuron to another, a process which **continues up to the last neuron in a chain of linked etheric and astral neuronal bodies**.

By analogy, we may imagine a channel connecting a series of rivers together, so that their waters flow from one to another to another, etc., until they all reach the sea. But if the "first" river is connected only to a small lake it might flow only in the opposite direction and never reach the sea (unless it acquires an additional channel connecting it to the mainstream rivers as well).

The joining through channels makes possible what might otherwise seem impossible. By the same token, the joining of external signal imprints on the etheric and astral levels, enables disintegrating primary matters, that are released by a brain neuron through the process of disintegration, **to start saturating the chain of etheric and astral neuronal bodies that are linked to it.**

Thus, **the circulation of primary matters begins ON the etheric level and ON the astral level, but not between them**, such as occurs with cerebral neurons that are chained together.

**Linkage on the etheric and astral levels can only occur between adjacent neurons.** Therefore, the incoming external signals which create etheric and astral imprints need to be **qualitatively close, but not identical** — as, for example, emerald and green, or blue and indigo colors. Likewise, external signals should be similar enough to cause changes in adjacent neurons but still possess some dissimilarities. Even just minute differences between external signals ensure the creation of etheric and astral level imprints between neighboring neurons, **thus enabling them to stick together.** We may liken this kind of joining to connecting sections of a bridge across a river. **The result is the linkage of two adjacent neurons into one system, one unit.** New, qualitatively similar external signals erect a "bridge" between neighboring neurons, from one neighbor to another, and so on and so on.

Thus, with this kind of "bridge construction" into one system, into one chain, non-adjacent neurons on the physical level (located at some distance from each other) — **that otherwise could never constitute one unified system** — now become connected. In other words, physically solid brain neurons, each of which is part of a fixed system and not mutually interactive, **are now able to**

**acquire new qualities.** They are stuck together — conjoined — **by means of imprints on the etheric and astral level of the neurons.**

As a result of this process unfolding on the brain cells' etheric and astral levels, chains of mutually interactive etheric and astral neuron bodies appear. As the brain accumulates information by reacting to the environment through the sense organs, the number of such chains grows. **The richer the information from the environment, the higher the number of brain cortex elements that develop their own chains.**

However, these chains remain isolated from each other. Only when the brain absorbs a critical volume of qualitatively varied information, **do the etheric and astral chains of neurons merge into one system.** This enables the brain cortex elements that are connected to the various sense organs to become joined together.

For example, when we see an apple, it is not at all difficult to imagine its taste, smell, consistency, moisture content, temperature, etc. and to experience the flow of gastric juices that they trigger. Our previous experience with the apple enables us, when perceiving even just one of its attributes, to get an idea of the object as a whole. And this image would be many-sided and virtually complete.

That is, we would be able to derive about ninety-nine percent of the information about the apple just by judging its outward appearance, or its smell and taste. Our brain by itself supplies the rest of the data because the entire spectrum of information about it is united into one system on the etheric and astral level of the neurons.

So what is missing from the "blackboard" upon which our brain has created a picture of the apple? Only some attributes which the brain is not capable of reproducing without additional information. In most cases, for example, we cannot tell from its outward appearance whether or not the apple is wormy. However, this information does not alter our main impression — an apple still remains an apple.

The brain is like a sponge soaking up information from the surrounding world. It differs from a sponge in that, as it absorbs data, it is qualitatively transformed, which of course is not true of a sponge. As a result of this process, quantitatively and qualitatively varied information, incoming from the environment, enters the brain through the senses. This leads to the development on the etheric and astral brain levels of a system consisting of hundreds of thousands, sometimes millions of chains of etheric and astral bodies linked together in a single unit.

Within the brain, new chains are constantly appearing as a result of the continuous informational input from the outside. Each chain is incorporated by the already existing system and becomes a part of the whole system, thereby creating new, additional links between the chains. More and more of these linking "crossroads" appear between the chains in the system. This causes the primary matters traversing these crossroads to saturate the etheric and astral bodies of the neurons contained in the system; and, also, to begin circulating on the etheric and astral levels of the brain as a whole. **This circulation results in the saturation and accumulation of primary matters in the neuronal bodies on the etheric and astral levels of the brain. And when the SATURATION REACHES THE CRITICAL LEVEL,** the miracle of **CONSCIOUSNESS** is born.

Thanks to the "crossroads" of chains, all the active neurons of the brain become saturated with primary matters, resulting in the creation of an adequately complete picture of the surrounding world.

But that is not all. There also occurs a saturation of the etheric and astral bodies of the active neurons (i.e., those neurons which participate in the development of chains). This leads to **changes in the self-dimensionality levels of these neurons:** thus, **ADDITIONAL DEFORMATION OF THE ACTIVE NEURONS' SPACE DIMENSIONALITY OCCURS.** This creates a **DIFFERENCE between the dimensionality levels of the etheric and astral bodies of the active, as compared to the passive, neurons.**

And when saturation by primary matters of the etheric and astral bodies of the active neurons

causes them to reach a critical value, **the additional distortion of space dimensionality becomes so great that ADHESION BETWEEN THE ETHERIC AND ASTRAL BODIES OF THE ACTIVE AND PASSIVE NEURONS OCCURS.**

And what is the significance of this? It means that in the brain, **NEW CHAINS OF ACTIVE NEURONS CAN ARISE WITHOUT THE HELP OF EXTERNAL SIGNALS.** In other words, man's brain begins to generate thoughts and reactions which are **NOT A DIRECT REFLECTION OF REALITY.** We acquire the capacity **TO THINK BY OURSELVES.** This heralds the birth of **CONSCIOUSNESS.**

So what, actually, is **THOUGHT** — that mystery of nature, born from the chaos of matter, and seemingly just a closed chain of etheric and astral neuronal bodies through which primary matters circulate? But, it is just thanks to these closed chains and the primary matter circulating through them that we are able to think and ponder. And it is just thanks to the fact that the human brain is capable of creating new chains **without the influence of external sensory signals** that we can create what is new and original, we can dream and change surrounding nature, penetrate into the depths of its mysteries and abstract from its reality.

However, to ensure this outcome, the system must undergo maturation. Initially, reality should "leave a number of traces" on the etheric and astral levels of the cerebral neurons. Chaos of the surrounding world — that is the first thing that impacts any living being who enters this crazy, yet wondrous world. We humans are no exception to this rule.

However, the chaos of the surrounding world is not sufficient to ignite in the human brain that weak and fragile spark of consciousness.

We may recall that the emergence of consciousness is tied to the ability of the human brain to create new chains without any external stimulus from the outside world. At birth a child's brain is like a *tabula rasa*, a blank volume, upon which fate will inscribe the first lines. All the brain neurons are in a primordial, virgin state and therefore qualitatively identical to each other, which means **they also have identical dimensionality levels.** Along with his first gasp, the flow of information begins to enter the child's brain. We designate as "passive" all those neurons **which have not been affected by external stimuli.**

Signals from the environment, transformed by sense organ receptors, reach the neurons and qualitatively change the structure of their etheric and astral bodies. (See Ch. 5 for details on long-term memory). At the same time, the dimensionality of these neurons undergoes change. We define as "**active**" those brain neurons which qualitatively change on the etheric and astral levels under the impact of information from the outside world. The active neurons possess higher levels of self-dimensionality.

Accordingly, we may define all neurons of a newborn as passive. Subsequently, as information from outside impinges on the brain through the senses — facilitating the creation of long-term memory — **active neurons** appear. **Their number constantly increases as the child develops.**

Thus begins **the first phase of cumulative qualitative changes of the brain cells on the etheric and astral levels.**

The child's brain is like a sponge, soaking up all the information coming from the outside world. During this phase, the process of long-term memory formation predominates: **this is essential** for the rapid accumulation of **active neurons by the child's brain.**

If, for some reason, the process of long-term memory formation is compromised between the ages of six to eight, the brain all but loses its potential for further development. Causes include hereditary diseases, or infections of the spinal fluid or brain cortex. But if the infant is lucky enough to elude this kind of misfortune, sooner or later (preferably sooner, of course) the number of active neurons reaches a critical level. In analyzing the birth of consciousness, we need to stress that **diversifying the quality of the informational input produces various qualitative changes in the etheric and astral bodies of the brain cells.**

During this phase of cumulative change, the higher the dimensionality levels reached by the etheric and astral bodies of the active neurons, the greater the evolutionary potential of the brain. This will become clear if we bear in mind the role of the brain cell's qualitative structure and its effect upon the condition, including the potential for rupture, of the qualitative barriers between the etheric and astral, and between the astral and first mental levels (see [Fig. 40](#), [Fig. 41](#), [Fig. 42](#)). This effect depends, of course, upon the dimensionality levels of the etheric and astral neuronal bodies.

So, how do the active neurons keep changing their dimensionality levels? The answer is quite obvious. We have only to recall that the sense organ receptors transform the signals from the environment into an ionic code. The latter, upon reaching the brain cells, triggers a host of chemical reactions, effecting, over a certain period of time, a change in the molecular weight of the **DNA/RNA** molecules. Molecules in the vicinity then encroach upon the cell's microspace, which, in turn, leads to a change in the degree of influence which the **DNA/RNA** molecules, along with the neurons as a whole, can exert.

And, this makes possible the changes in the qualitative structure of a neuron's etheric body, and, under certain conditions of the astral body as well. (See Ch. 5 on short- and long-term memory formation). In turn, the etheric and astral bodies of the neurons, also become heavier, and the degree of their impact on the state of the surrounding microspace changes as well.

In the case of long-term memory formation, the changes in qualitative structure of the etheric and astral bodies become permanent, or, at least, of very long duration. In this way, the signals from the external environment **qualitatively change the cerebral neurons**. And, therefore, **the extent to which the etheric and astral neuronal bodies undergo qualitative change depends upon the source of the external signal**.

And so we come to appreciate how important the quality of the informational input is to the brain and its role in producing the qualitative changes in the etheric and astral neuronal bodies, **without which the qualitative barriers between the etheric/astral and astral/first mental levels could not be opened. The quality of the information establishes and determines the potential for brain development in every living human being.**

Let us now clarify the role played by the volume of information.

We may recall that active neurons develop chains on the etheric and astral levels of the brain. In such chains the active neurons are joined together by their etheric and astral bodies. As a result, primary matters, released through the disintegration of the practically solid matter of the physical neuronal bodies, begin to overflow consecutively from the etheric and astral bodies of one neuron to another, and so on until the end of the chain.

Naturally, only a part of the released primary matter branches off from the vertical circulation between the levels to make up the horizontal movement between the etheric and astral bodies of the cerebral neurons. Concomitantly, a further saturation of the neuronal bodies occurs, leading to a rise in their dimensionality level, while, at the same time, the etheric and astral bodies of the active neurons undergo loss of primary matters.

Thus, we may note two distinct processes unfolding: additional saturation by primary matters resulting from the horizontal movement along the chain, plus permanent loss of primary matters by the etheric and astral bodies of the active neurons. (The latter loss is a result of all the various energy expenditures incurred in the process of living) And, if these two, basically antithetical processes become approximately equal, they neutralize each other — canceling out the total effect of the additional saturation.

So, how can we preserve the effect of additional saturation so as to facilitate qualitative changes, particularly in the etheric and astral bodies of the active neurons, as well as in the brain as a whole? The answer is very simple: **reduce the loss of primary matters by the etheric and astral bodies of the active neurons and increase the capacity for additional horizontal saturation.**

Decrease of loss can occur when the chains of active neurons become closed. And that, in

turn, can happen when adhesion between different chains of active neurons occurs. The latter can be achieved through a random, chaotic process of joining huge numbers of chains together.

Thus, information chaos, absorbed by the human brain from the external environment is **A NECESSARY CONDITION FOR THE BIRTH OF CONSCIOUSNESS**. Further, **to increase the capacity for additional horizontal saturation, the largest number possible of active neurons is required**, forming one system, in which processes of matter disintegration are occurring at the same time. And this becomes possible when **the number of active neurons joined in a common system achieves a certain critical value**.

Hence, a critical number of active neurons united into one common system is a **SUFFICIENT CONDITION** for the emergence of **CONSCIOUSNESS**. And, to repeat, the critical number is achieved spontaneously under the impact of the chaos of information being absorbed by the human brain from the outside world. For any human being, his or her social environment — society — represents the cumulative informational input from all the preceding generations.

Thus, some volume of chaotic information from the outside surroundings appears to be a **NECESSARY AND SUFFICIENT CONDITION for the appearance of CONSCIOUSNESS**. **At this point we are nearing an understanding of the logical inevitability OF THE BIRTH OF CONSCIOUSNESS AT A CERTAIN STAGE IN THE DEVELOPMENT AND ORGANIZATION OF ANIMATE MATTER**.

Homo sapiens, owing to his species' peculiarities and his collective (social) organization is "doomed" to the birth of **CONSCIOUSNESS**. And this is a consequence of the niche which humans occupy in the ecological system of the planet. As life evolves, one ecosystem supplants another, each becoming more suitable than the primitive one it replaces. And this process continues until an ecosystem appears capable of supporting that emerging spark of consciousness.

As they consume this spark and start to evolve, the carriers of consciousness themselves begin looking after the development of life on their planet, including the creation of viable, artificial ecosystems. That, unfortunately, cannot be said of today's mankind...

And now, to return to our "theme." I trust the significance of the quantity and quality of information absorbed by the brain has been sufficiently clarified. Still not cleared up is the question about "how much time the Almighty has left us" to earn the right to receive that spark of consciousness. Does the Lord grant every one of us a limited time period for accomplishing our major task — to accumulate just enough power to pierce the apple's skin as we attempt biting the fruit from the Tree of Knowledge — and, on doing so, gratefully quench our thirst with that life-giving juice of enlightenment?

Let us encroach on the rights of the Lord once more — at the very worst, we have nothing to lose.

It is simple to explain the age limit, the window of time, in which a child must soak up a certain volume of quality information in order to ignite a spark of consciousness inside himself. There is a significant difference between a newborn and an adult brain with respect to head size and therefore to the number of neurons present. After birth, there is an intense growth of the cranial volume and continuous neuronal cell division. In general, this process is completed by six to eight years of age.

It is well known that during cell division two completely identical cells are formed: this applies to neurons as well. Let us recall that the brain neurons comprise two categories -active and passive. **Active** neurons undergo qualitative changes in the structure of their etheric and astral bodies under the impact of signals from the outside world. **Passive neurons undergo no qualitative changes and are qualitatively identical to one another, because as products of cell division they are identical "twins."** Consequently, all passive neurons have identical dimensionality levels. For this reason, though their division is followed by an increase in cranial volume, the new passive neurons which result have only a minimal evolutionary level.

At the same time, the active neurons, under the impact of the outside informational flow, keep

changing qualitatively and therefore, compared to the passive neurons, have a higher level of evolution. Thus, when active neurons replicate themselves through cell division, the new, identical cells provide a "legacy" of an additional level of evolutionary development.

Precisely for this reason, the level of information which a child's brain absorbs during the first six to eight years of life has decisive importance for the emergence of intelligence. This is because active and passive neurons, during the period of brain growth, are undergoing cell division with equal intensity. And during cell division, the number of active neurons grows in geometrical progression. Thus, as the human brain, under the influence of the outside informational input, acquires a certain critical number of active neurons — the following pivotal development occurs: as soon as the brain volume stops growing actively and the number of active neurons reaches a certain level, **the cells undergo a qualitative leap in evolution — i.e., they acquire the capacity for COLLECTIVE thinking.**

It is no accident that only three — or, at most five — percent of our total brain cells are active, while the remaining ninety-seven to ninety-five per cent lie dormant throughout our entire lifetime. Why did nature create this "sleeping beauty" in us and what "prince" with what kind of "kiss" can rouse those slumbering neurons from their lethargy?

But perhaps the time is not yet ripe for this "sleeping beauty" to awaken; perhaps the power, the potential, of that dormant piece of brain is so great, so incredible, that it would better serve man himself and nature as a whole that this dream be allowed to continue. But continue for how far and for how long? Perhaps until man's consciousness attains a certain stage of maturity. For **spiritual immaturity** is more horrible and more unthinkable than even a nuclear holocaust. The ecological disaster upon which our planet is now teetering is eloquent testimony of that!

[www.levashov.org](http://www.levashov.org)  
[www.levashov.info](http://www.levashov.info)  
[www.levashov.name](http://www.levashov.name)

## Appendix. Guide to illustrations

**Fig. 1** — The dimensionality of space is continuously changing. In order to create conditions for primary matters to merge with each other, the dimensionality of space must change by a specific value,  $\Delta L = 0,020203236$ . Consecutive changes of spatial dimensionality by the same value,  $\Delta L$ , are really the quantization of matrix space and are expressed by a quantization index. The quantization of space is what gives rise to the creation of diverse space-universes, formed by the mergence of different quantities of primary matters; therefore, each space-universe so created has its own self-dimensionality level. For example, space-universe  $\Delta L_6 = 2,97996$ ;  $\Delta L_7 = 3,00017$ ;  $\Delta L_8 = 3,02037$ . Each space-universe differs from its neighboring universe by having one primary matter more or less (in composition) than its neighbor. Thus, the one with a higher dimensionality level has the additional primary matter, while the one with lower dimensionality has one primary matter less than its neighbor.

**Fig. 2** — As a result of the curvature of space (caused by the above and other phenomena), zones of nonuniformity arise between adjacent space-universes and join together. If, for example, a space-universe with a dimensionality of  $L_7$  connects with a larger-dimensionality universe,  $L_8$  — within their linkage a star  $L_a$ , is born, which belongs to the universe of the smaller dimensionality. Similarly, if a smaller-dimensionality universe,  $L_6$ , connects with larger-dimensionality universe,  $L_7$ , a black hole,  $L_f$ , emerges, belonging to the latter universe,

It is through the so-called "positive" linkage zones (which are really stars) that primary matter flows from the higher level to our lower level, universe. Similarly, matter from our universe flows through the "negative" linkage zones (which are black holes) to the next lower level universe adjacent to us. Each space-universe is maintained in a stable state thanks to the balanced flow between incoming and outgoing matter.

**Fig. 3** — Every star "lives" billions of years and then "dies." During those eons, matter flows from the higher dimensionality universe,  $L_8$ , through a linkage zone to our lower level space universe,  $L_7$ . Within this linkage zone, the dimensionality level is sufficient to support a synthesis of atoms comprising elements whose dimensionality level keeps them stable. Within the highest range of stability for physically solid matter, only the so-called light elements, such as hydrogen (**H**) and helium (**He**) can exist.

Therefore, within this linkage zone, there is a continuous synthesis of the above elements. And it is no accident that most of the matter in our universe is hydrogen. Thanks to the continuous, active process of hydrogen synthesis, its mass comprises the building matter of stars. And thus, the stars called "blue giants" are born. The initial density of these "newborns" is very low, but owing to the nonuniformity of the linkage zone, a centripetal dimensionality gradient arises. As a result, the hydrogen molecules begin to move toward the center of the linkage zone. Thus begins the process of star compression, during which the star's mass steadily increases in density. Along with the increase in density, the star's volume begins to decrease. This, in turn, leads to an increased degree of influence by the star mass upon the dimensionality level of the linkage zone, as well as impact at the nuclear level.

Thus, the star's dimensionality level begins to decrease, and inside the star, new, heavier elements begin to be synthesized. A thermonuclear reaction ensues and the star begins to radiate a whole spectrum of waves as a "side effect" of that synthesis. It is pivotal to note that — exactly due to this "side effect" — conditions for the origin of life appear.

Within the linkage zone, two parallel processes are unfolding — (1) the simultaneous synthesis of hydrogen and the disintegration of matter flowing down from the higher-dimensionality universe (composed of eight primary matters); and (2) the synthesis from hydrogen of heavier elements during the course of the thermonuclear reactions. As a result of these processes, the star decreases in volume and -owing to the increased weight from some of the heavier-than-hydrogen elements —

also decreases its self-dimensionality level. This, in turn, reduces the linkage zone.

In other words, the star, "born" for us by another space universe, is gradually separated from its "mother." Is this not a curious analogy to the development of an embryo *in utero*, whereby the fruit of the maternal flesh and blood leaves the mother's lap and starts an independent life — just as a star, spawned by a space-universe, leaves the maternal lap when the impact of its environmental space decreases its self-dimensionality level.

Once separated from the "parent" universe, the star begins a life of its own — a span of billions of years — and finally "expires." Indeed, the stars, in their turn, have abundant time to "give birth" to planetary systems which can support life. Let us consider the process whereby planetary systems are born. During the compression of a star, the balance between the radiating surface and radiating volume is disturbed. This causes primary matters to accumulate inside the star. This accumulation gives rise to a supernova explosion, causing longitudinal fluctuations of space dimensionality around the star.

**Fig. 4** — A star's outer layers, consisting of the lightest elements, are ejected by a supernova explosion into the curvature of space created by the longitudinal fluctuations of dimensionality resulting from the explosion. In these zones of space curvature, caused by the impact of the primary matters, an active synthesis of matter ensues — and the entire spectrum of the various elements, including the heavy and super-heavy, is synthesized.

The greater the difference between the star's self-dimensionality level and those of the space curvature zones, the greater the possibility of heavy elements being born and the more stability they will have. Depending on initial size, one or several supernova explosions can occur during the life span of the star. With each such explosion, the star's self-dimensionality level decreases; this leads to a reduced synthesis of light elements and an increased synthesis of heavy ones. As a result, the density, and consequently, the impact of a star on its environmental space are increased. If the initial weight of a star is less than ten solars, at the moment of its extinction it will turn into a neutron star. If the initial weight exceed ten solars, it ends up as a black hole.

In its qualitative structure, the neutron residue of a star is a very physically dense substance. This is due to the fact that it is composed mostly of neutrons, which have no electrical charge and no "empty space" between them, such as exists between the nuclei of adjacent atoms. Therefore, a star's neutron residue barely deforms its macrospace enough to create a new linkage zone except with a universe having a smaller self-dimensionality level, such as an  $L_6$ .

Upon extinction, the star of our space-universe gives rise to a new star in the parallel, underlying space-universe. The birth of a black hole for one space-universe represents the occurrence of a new star in another space-universe having a smaller dimensionality level. One turns into another, and vice-versa. All these processes make for a condition of stability. If, for any reason, the balance between the "arriving" and the "departing" matter is disrupted in any of the space-universes, instability develops. A critical value is reached, producing a huge explosion and the birth of a new space-universe.

**Fig. 5** — Gradually, the substance in zones of curvature condenses and planets are born. The condensation of matter is due to the existence, inside the curvature zone of a dimensionality gradient directed toward the center of the nonuniformity (anisotropy). The closer the zone of curvature is to a star, the more pronounced the gradient. Therefore, the planets which are closest to a star will be the smallest in size and contain the largest proportion of heavy elements. Also, the latter are more stable, since the self-dimensionality level of a planet's uniform zone is smaller, the closer a planet is to the star. Thus the largest share of stable heavy elements is on Mercury, while the distribution of heavy elements on the other planets progressively decreases, as follows: Venus, Earth, Mars, Jupiter, Saturn, Uranus, Pluto.

Thus, most of the gold and platinum is on Mercury and Venus. Knowing the nature of a

planet's origin and its position relative to its star enables us to correctly determine the location and type of its deposits of natural resources.

**Fig. 6** — The primary matters ejected from a supernova explosion into zones of space curvature enter into an area of different qualitative conditions and consequently begin to merge with one another and create hybrid forms. The mergence of seven primary matters gives rise to six hybrid forms, which, in a zone of curvature, create six separate spheres, each of which differs from its neighboring sphere by one primary matter.

The hybrid forms of matter thus created inversely impact the dimensionality of their environmental space. In other words, after completion of the synthesis process, the deformation of space is compensated for (i.e., "filled in") by the hybrid forms of matter. Therefore, the primary curvature of space caused by the explosion of a supernova is counteracted.

1. Physical sphere of planet Earth.
2. Etheric sphere of planet Earth.
3. Astral sphere of planet Earth.
4. First mental sphere of planet Earth.
5. Second mental sphere of planet Earth.
6. Third mental sphere of planet Earth **A, B, C, D, E, F, G** — the seven primary matters forming our space-universe.

**Fig. 7** — The inside sphere, formed by all seven kinds of primary matter, is the **PHYSICALLY SOLID PLANET, EARTH**, a substance that has four aggregate forms — solid, liquid, gas, and plasma. Different aggregate forms appear as a result of the fluctuation of dimensions less than  $\Delta L$ .

Moving away from the physical center of nonuniformity, we have the following picture: a sphere formed by the merging of six kinds of primary matter, is called the **ETHERIC** sphere; the merging of five kinds of primary matter produces the **ASTRAL** sphere; of four kinds of primary matter constitutes the **FIRST MENTAL** sphere; of three kinds of primary matter, the **SECOND MENTAL** sphere; and of two kinds of primary matter, the **THIRD MENTAL** sphere.

The solid physical sphere of Earth shares the largest number of qualities with the etheric body, which is closest to it, and shares the smallest number of qualities with the third mental body, which is farthest from it.

Mutual or shared qualities of the different bodies create certain conditions for their interaction. The amount of interaction between two bodies depends upon the number of qualities they share.

1. Physical sphere of planet Earth.
2. Etheric sphere of planet Earth.
3. Astral sphere of planet Earth.
4. First mental sphere of planet Earth.
5. Second mental sphere of planet Earth.
6. Third mental sphere of planet Earth.

**Fig. 8** — The qualitative structure of the six spheres forming planet Earth.

1. Physical sphere of planet Earth formed by the mergence of seven forms of primary matter.
2. Etheric sphere of planet Earth formed by the mergence of six forms of primary matter.
3. Astral sphere of planet Earth formed by the mergence of five forms of primary matter.
4. First mental sphere of planet Earth formed by the mergence of four forms of primary mat-

ter.

5. Second mental sphere of planet Earth formed by the mergence of three forms of primary matter.

6. Third mental sphere of planet Earth formed by the mergence of two forms of primary matter **h, i, j, k, l, m** — qualitative barriers between the physical and etheric, etheric and astral, astral and first mental, first and second mental, second and third mental spheres, respectively

**a<sub>1</sub>, a<sub>2</sub>, a<sub>3</sub>, a<sub>4</sub>, a<sub>5</sub>, a<sub>6</sub>**— coefficients of interaction between the physical and etheric. etheric and astral, astral and first mental, first and second mental, second and third mental, respectively.

**A, B, C, D, E, F, G** — seven primary matters forming our space-universe.

**Fig. 9** — In the case of the hydrogen atom, H, its self-dimensionality level (i.e., the degree of impact of an atom or material body upon its surrounding space), is so minimal that the atom maintains its stability within the entire dimensionality range between the physical and etheric spheres. Thus hydrogen can be stable both inside an incandescent star as well as in interstellar space. For this reason, hydrogen is the most widespread element in the universe.

Practically all processes occurring in the universe involve its participation. Hydrogen is the basis not only of the thermonuclear reactions in stars, but it also plays a major role in making possible the existence of living matter.

1. Lowest dimensionality level of the physical sphere.
2. Highest dimensionality level of the physical sphere.

**Fig. 10** — Comparison of the degree of influence of the hydrogen atom, **H**, and the uranium atom, **U**, on the surrounding microcosm (microspace). The self-dimensionality of uranium, **U**, allows it to be stable within the limits of a minimal range of dimensionality.

1. Lowest level of dimensionality of the physical sphere.
2. Highest level of dimensionality of the physical sphere.
3. Highest level of dimensionality of the etheric sphere For this reason, uranium and all trans-uranium elements are radioactive, i.e., unstable practically under any conditions, unlike hydrogen and other light elements, which become stable only under certain conditions.

The lighter the element, the more stable it is; this means that a greater external effect is needed to trigger its instability.

**Fig. 11** — every atom or molecule has a dimensionality range, within which it maintains its stability. Therefore, the physically solid matter of a planet is distributed according to these ranges of stability.

The boundaries of these ranges delineate the division between the atmosphere, oceans and solid surface of a planet. The boundaries of stability of a planet's crystal structure repeats the contours of the nonuniform zone; therefore the surface of the firm crust has hollows and ledges.

The hollows are subsequently filled in with water and form oceans, seas and lakes. Water is really liquid crystal; since it possesses a minimal self-dimensionality level, it is stable in the highest range levels and, by the same token, is permitted to accumulate in the hollows of the crust.

The atmosphere, blending gradually into the ionosphere, which is plasma (i.e., a transitional state between physical and gaseous matter), occupies the upper limit of the dimensionality range of physically solid matter.

After the synthesis of physically solid matter, the atoms acquire some stability to external changes in macrocosmic dimensionality. Therefore, only when the amplitude of the macrocosm's external dimensionality gradient becomes equal to one-half of the dimensionality range of the physical sphere, do the atoms become unstable and disintegrate.

1. Dimensionality level of the atmosphere.
2. Dimensionality level of the oceans.
3. Dimensionality level of the Earth's crust.
4. Dimensionality level of magma.

**Fig. 12** — Every atom has a specific self-dimensionality level; if this level coincides with its macrospace's self-dimensionality, it maintains a stable condition. Otherwise it destabilizes and disintegrates. If atoms of two different elements,  $A_1$  and  $A_2$ , have self-dimensionality levels differing from each other by a value of  $\Delta L$ , they cannot, under usual conditions, make up one system.

**Fig. 13** — The opportunity for atoms of different self-dimensionality levels to form a molecule occurs when one of them absorbs or radiates electromagnetic waves, the wavelengths of which are commensurate with the distance between the atoms.

The necessary conditions are fulfilled by waves ranging from infrared to ultraviolet. When one of the atoms absorbs a wave, its level of self-dimensionality is increased by the value of the wave amplitude. Conversely, with radiation of a wave by the atom, the latter's self-dimensionality level decreases according to the value of the emitted wave's amplitude.

As a result, the self-dimensionality levels of the two different atoms,  $A_1$  and  $A_2$ , are equalized, thereby enabling them to form a new molecule.

The entire range of chemical compounds which exist in nature — including the organic — owe their very existence to a small spectrum of so-called electromagnetic waves, from infrared to ultraviolet. So the emergence of living matter would be **impossible** without these insignificant fluctuations of microspace dimensionality triggered by the spectrum of infrared to ultraviolet electromagnetic waves.

**Fig. 14** — After completion of the process of planet formation, primary matters continue to circulate throughout the zone of nonuniformity. The hybrid forms of matter that have emerged from the synthesis of primary matters compensate for the difference in dimensionality in the nonuniform zone, but do not "remove" it.

We may liken the process to that of water continuously flowing in and out of a reservoir, thereby maintaining its level. Similarly, the primary matters, after completion of a planet's formation, continue to flow in and out of a zone of nonuniformity.

Because the planet constantly loses a part of its substance, mainly in the form of a gaseous tail and through radioactive disintegration of elements, an additional, but minimal, synthesis of physical matter continues, thereby restoring the balance. Inside a planetary zone of nonuniformity there exists a series of smaller nonuniform (anisotropic) zones which have an effect on the primary matters flowing through them; hence, each section of the

Earth's surface is penetrated by primary matter flows in a certain proportional ratio. As a result, depending upon their particular distribution, a synthesis of various elements occurs during the process of planetary formation.

This is precisely the reason why deposits of the latter or other elements are formed in different sections of the crust and at various depths. And where such deposits are produced, nonuniform dimensionality is created, which triggers the synthesis of various elements.

Upon completion of the synthesis, the dimensionality balance is restored. Indeed, the synthesis-restoring balance can continue for hundreds, sometimes thousands of years, so that only subsequent generations can see the results. Thus, every part of the planet's surface is penetrated in one or another direction by a certain superimposition (proportional ratio) of primary matters. The ascending flows of primary matters penetrating the surface create the so-called **positive geomagnetic zones**, while the descending flows create the **negative** ones.

1. Planetary core.
2. Magma belt.
3. Planetary crust.
4. Atmosphere.
5. Etheric sphere.
6. Circulation of primary matters throughout the planetary surface.
7. Negative geomagnetic zones (descending flows of primary matters).
8. Positive geomagnetic zones (ascending flows of primary matters).

**Fig. 15** — As atoms absorb waves, their dimensionality level increases. Solar light is absorbed by the surface of the planet. Each atom, after absorbing a light photon, remains activated for some time; its self-dimensionality level becomes higher than those of the neighboring atoms forming the crystal lattice, following which it emits a wave.

Thus, an atom absorbs one wave and radiates another. This occurs because part of the energy of the absorbed wave is lost. Therefore, during a solar day, the heated surface itself begins to emit waves, mainly thermal. The thermal waves emitted from such a surface begin to be absorbed by the atmosphere's molecules. During this process, the self-dimensionality levels of the atmospheric atoms above the heated surface are increased. As a result, the general level of self-dimensionality of the atmosphere above the heated surface increases, while that of the atmosphere above the unlit surface decreases.

The decrease in self-dimensionality of the atmosphere over the unlit (night) or partially lit surface of a planet occurs because the atoms of the atmosphere also emit waves. This leads to reduction in the self-dimensionality of the radiating molecules. As a result, a horizontal gradient of dimensionality arises between the lit and unlit planetary surfaces.

Therefore, those molecules not bonded in a rigid system begin to move along this horizontal dimensionality gradient, which gives rise to the movement of the atmospheric layers -i.e., the wind.

1. Surface layer of a planet with an atmosphere.
2. Qualitative barrier between the physical and etheric spheres.
3. Qualitative barrier between etheric and astral spheres.
4. Vertical dimensionality gradient inside a zone of uniformity.
5. Horizontal dimensionality gradient arising between lit and unlit planetary surfaces.
6. Increase in thickness of the qualitative barrier above the unlit surface.
7. Contraction of primary matters at the etheric level above the illuminated surface.

**Fig. 16** — Spatial structure of a diamond, in which crystal carbon atoms are located at identical distances from each other. The distance between the carbon atoms in a diamond crystal is equal to the size of the carbon atoms; therefore, no other atoms or molecules, either greater or smaller than the carbon atoms are capable of moving between them.

The replacement of some of the carbon atoms is possible only by other carbon atoms. This is what causes the transparent crystals of the diamond to take on certain colors.

Thus, one may come to admire the beauty of yellow, light blue, red or black diamonds, which, processed by the hand of man, become stones of amazing beauty. Additionally, such a crystal lattice represents the strongest natural bonding of atoms and is not artificially reproducible.

**Fig. 17** — The spatial structure of graphite. In this crystal the carbon atoms in the horizontal plane are spaced equidistant from each other, while the distance between layers in the vertical plane is considerably higher than that between horizontally oriented carbon atoms. One might wonder how

a mere distance in spatial arrangement of carbon atoms could make these crystals so soft?

This particular spatial arrangement of carbon atoms is called graphite and is widely used in industry as well as in everyday life, for example, in lead pencils, electronics, etc.

The same carbon atoms which typify the strongest linkage in nature — the diamond — also give rise to the softest crystal linkage in nature — **graphite**. It appears that minor changes in the carbon atoms' structure transform the strongest joining of atoms into the softest linkage.

The reason for such differences in the properties of these carbon linkages lies in the various environmental conditions in which they are formed. The intense pressures and temperatures such as occur in volcanic craters transform the soft graphite into the hardest diamonds.

**Fig. 18** — The spatial structure of a carbon chain. By joining in chains, the carbon atoms can create molecules of hundreds of thousands, even millions, of nuclear units. Such molecules influence their surrounding microspace nonuniformly, creating around themselves an anisotropic structure of their microspace.

The carbon atoms' ability to create such structures is due to the fact that it possesses a valence of four.

It is precisely this property of creating electronic environments that gives the carbon atoms the ability to generate a range of qualities which make the origin of life possible.

The so-called outer electrons of carbon atoms are able to unite with the outer electrons of other atoms at right angles to each other. It is exactly this property that allows carbon atoms to create various spatial connections.

**Fig. 19** — The spatial structure of cytosine — one of four nucleotides which make up the structure of **DNA** and **RNA** molecules. Joining together, nucleotides form the **DNA** and **RNA** spirals which are the basis of life. The miracle of life's origin is a consequence of the carbon atoms' qualitatively diverse spatial connections.

Such structures are formed in a watery environment during atmospheric discharges of electricity. Three kinds of carbon atom connections give rise to three kinds of spatial organization of matter — the structure of diamonds, isotropic in two spatial directions and anisotropic in one direction; the structure of graphite and, lastly, the structure of **DNA** and **RNA** molecules, anisotropic in all spatial directions. Thus, the anisotropy of matter is the basis of all life.

**Fig. 20** — The spatial structure of a segment of an RNA molecule, composed of a chain of consecutively connected nucleotides: **guanine, adenine, thy mine and cytosine**. Its molecular weight runs into hundreds, thousands, or millions of nuclear units and exhibits a disproportionate distribution in the various spatial directions.

Spatial anisotropy of the **DNA** and **RNA** molecules is a necessary condition for the origin of life. It is precisely spatial nonuniformity at the microspace level that creates the necessary and sufficient conditions for the emergence of living matter.

Non-living matter shows a symmetrical spatial organization, in contrast to the spatial qualitative asymmetry, which is the requisite for living matter. Indeed, a curious paradox of nature, is it not: asymmetry -living matter?

So spatial nonuniformity not only gives rise to the birth of stars and black holes in the universe, but also is the reason for that wonder of nature called the miracle of life.

**Fig. 21** — End view of a **DNA** and **RNA** molecule. The spirals of these molecules create a kind of tunnel in microspace, the inner volume of which has a radial dimensionality gradient. Within the **DNA/RNA** spirals, the anisotropic structure of microspace is created.

This gives rise to a kind of "suction funnel" for all molecules inside the cells which, while in motion, come into "dangerous" proximity to the **DNA/RNA** molecules.

This presents a curious analog to a black hole, which draws into itself any matter which has "encroached" on its "territory" — that area of space to which all matter is irresistibly drawn. In both cases (i.e. the **DNA/RNA** molecules and the black holes), the drawing in of matter is due to the constantly changing dimensionality gradients in the vicinity of these material objects. The only difference is in the size these dimensionality gradients and in the fact that events unfold at a micro-space level for **DNA/RNA** molecules and in **macrospace** for black holes.

**Fig. 22** — The spiral architecture of the DNA/RNA molecules creates a nonuniform (anisotropic) microspace within the inner volume of these molecules. The radial and longitudinal dimensionality gradients, intersecting each other in that inner volume of the molecular spirals, create a longitudinal standing wave of dimensionality gradients.

Such spatial architecture creates a trap for all other molecules, both organic and inorganic. As a result of the molecules' Brownian movement inside a cell, they wind up close to the **DNA/RNA** molecules.

The radial dimensionality gradient within the spirals forces the molecules caught inside the spirals' inner volume to move lengthwise along the **DNA/RNA**'s so-called optical axis. As they move through the inner spirals, the "captive" molecules fall under the influence of the varying dimensionality gradients.

1. Anisotropic (nonuniform) inner space of a **DNA/RNA** inner spiral.
2. Dimensionality gradient of the microspace along the **Y** axis.
3. Dimensionality gradient of the microspace along the **Z** axis.
4. Standing wave of microspace dimensionality gradient within the inner volume of the DNA/RNA spirals along the **X** axis, contiguous with the axis of these molecules.
5. "Captured" external molecule, **D**.

**Fig. 23** — Molecules caught within the DNA/RNA's inner spiral volume fall under the influence of the radial dimensionality gradients and begin to move along the spiral's axis. As they move, they become subject to the effect of the microspace dimensionality gradient created by the standing wave.

For most of the captive molecules this gradient is overpowering and triggers their disintegration into their constituent primary matters.

1. Anisotropic inner volume of a **DNA/RNA** spiral.
2. Microspace dimensionality gradient along the **Y** axis.
3. Microspace dimensionality gradient along the **Z** axis.
4. Standing wave of microspace dimensionality gradients inside the **DNA/RNA** spiral tunnels along the **X** axis, contiguous with the axis of these molecules.
5. "Captured" external molecule, **D**.

**Fig. 24** — Under impact of the longitudinal dimensionality gradients along the spiral's axis, molecule **D** becomes unstable, and when the fluctuations reach a critical value, it disintegrates into its component primary matters. This is followed by a synthesis of **D** molecules possessing a self-dimensionality level that keeps them stable against the impact of the longitudinal dimensionality gradients of the standing wave inside the **DNA/RNA** molecular spiral.

These **D** molecules which are re-synthesized from primary matter into smaller units and are stable against the **DNA/RNA** dimensionality gradients are really toxins — slag and should be expelled from the organism.

Within the **DNA/RNA** molecular inner space, nuclear reactions of disintegration and synthesis are taking place. Of course these nuclear reactions whereby outside molecules are drawn into the spiral trap and exposed to disintegration are different from other more familiar types. Nevertheless, the fact remains that inside living matter nuclear reactions, involving the splitting and synthesis of molecules do occur. And there is no inconsistency in the fact that — in living matter — nuclear reactions can occur only inside

**DNA/RNA** molecular spirals in a microscopic volume of space, no matter how large the molecules are. And during this process no chain reaction occurs, as in the case of classical nuclear reactions.

1. Anisotropic (nonuniform) inner volume of **DNA/RNA** spirals.
2. Dimensionality gradient of microspace along the **Y** axis.
3. Dimensionality gradient of microspace along the **X** axis.
4. Standing wave of the microspace dimensionality gradient inside the **DNA/RNA** spiral tunnels along the **X** axis, contiguous to the axis of these molecules.
5. A synthesized **D** molecule.

**Fig. 25** — Formation of a replica of a **DNA/RNA** molecule at the etheric level — the so-called etheric body. The etheric body is created from primary matter **G**. The qualitative difference between the physical and the etheric spheres lies in the lack of **G** matter at the etheric level. Within the zone of influence of the **DNA/RNA** molecular spirals, the qualitative barrier between the physical and etheric spheres disappears and the qualitative balance of primary matters is restored.

The etheric body is formed from a primary matter which is released into the **DNA/RNA** spiral tunnels when the molecules trapped inside disintegrate into their constituent matters. Microscopic, living "black holes" in the cells provide a non-stop flow of released primary matters to the etheric level. This provides constant replenishment of **G** matter to the etheric bodies and ensures their stability.

1. A physical **DNA/RNA** molecule.
2. An etheric copy, or etheric body, of a **DNA/RNA** molecule.

**Fig. 26** — A cell and its etheric body. Every molecule deforms its surrounding microspace; therefore, a living cell formed from organic and inorganic molecules creates deformation at the etheric level, completely repeating the outer appearance of the cell. But this deformation would remain blank, if it were not for the cell's **DNA/RNA** molecules, which not only open the qualitative barrier between physical and etheric levels, but also create the conditions for splitting molecules into primary matters and re-forming them in their spirals' inner volume.

1. Physical cell.
2. Etheric body of a cell.
3. Nucleus of a cell.
4. Centrioles.
5. The linkage zone between the physical and etheric levels, the so-called energy channel.
6. Golgi apparatus.
7. Mitochondria.
8. Endoplasmic reticulum.

**Fig. 27** — The disintegration of molecules into their constituent primary matters occurs inside the cellular nucleus.

The released primary matters begin to circulate through the channel between the physical and

etheric bodies — i.e., the zone connecting a physical cell and its etheric body. During the movement from the physical to the etheric level, the ascending flows of primary matter turn and begin to move in the direction of the dimensionality gradient.

Thus, around the physical cell and its etheric body, the circulating primary matters create a certain dynamic, isolating cover. Within this cover, or shield, a microclimate with stable parameters is formed.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Cellular nucleus.
4. Centrioles.
5. Energy channel between a physical cell and its etheric body.
6. Golgi apparatus.
7. Mitochondria.
8. Isolating, i.e., protective cover or shield.

$\Delta L$  — Dimensionality gradient of the microspace

**Fig. 28** — A physical cell with etheric and astral bodies.

The etheric body of the cell differs from the astral in its qualitative structure. The astral body is formed by the mergence of two primary matters, **G** and **F**, and the etheric body by one primary matter, **G**.

Together they make up a unified system, which represents the next step in the evolution of living matter.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.
5. Energy channel between the physical, etheric, astral and first mental bodies.
6. Golgi apparatus.
7. Mitochondria.
8. Endoplasmic reticulum.
9. Centrioles.
10. Cellular nucleus.

**Fig. 29** — A physical cell with etheric, astral and first mental bodies. The first mental body is formed by the mergence of three primary matters, **G**, **F** and **E**; the astral body by the mergence of two primary matters, **G** and **F**; and the etheric body by one primary matter, **G**.

The development of a mental body is the next qualitative leap in the evolution of living matter, and provides the opportunity for the development of consciousness on a qualitatively different evolutionary level.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.
5. Energy channel between the physical cell and the etheric, astral and first mental bodies.
6. Golgi apparatus.

7. Mitochondria.
8. Endoplasmic reticulum.
9. Centrioles.
10. Cellular nucleus.

**Fig. 30** — In a multicellular organism, the etheric bodies of the cells create a unified, rigid system at the etheric level -the etheric body of the multicellular organism. Similarly, on an astral level, the astral body of a multicellular organism is created, and on the first mental level, the first mental body of a multicellular organism develops.

The physical body is only the foundation for the whole structure which we call "living matter." The number of "floors" depends on the level of evolutionary development of a given organism and can be increased or decreased only in species possessing consciousness.

1. Physical body of a multicellular organism.
2. Etheric body of a multicellular organism.
3. Astral body of a multi-cellular organism.
4. First mental body of a multicellular organism.

**Fig. 31** — Enveloping the human body, a protective environment or shield develops according to the same principle governing its development around a single cell. The difference is that in man, its axis passes through the head and spinal cord.

This is due to the fact that the head and spinal cord cells have the highest dimensionality level in the entire organism and, consequently, the primary matters released from molecular disintegration within the organism's cells join together in a single flow which moves along the spinal column.

As a result, a dynamic, protective shield is formed around all the bodies of man, including the physical body.

The shield serves to synchronize all the cells of the human organism and support their mutual functioning.

1. Physical body.
2. Protective shield.

$\Delta L$  — dimensionality gradient of the microspace.

**A,B,C,D,E,F,G** — primary matters forming our space-universe.

**Fig. 32** — Evolutionary development of the etheric body of a cell. The development of living matter proceeds stage by stage. The first living organisms that appeared in the primal ocean had only etheric bodies (in addition to the physical bodies).

Only after the appearance of multicellular organisms did conditions arise for modification of the physical cells and the resultant opportunity for the buildup of astral and mental bodies.

Such a qualitative leap became possible thanks to the fact that the cells in multicellular creatures began to differentiate: thus, external cells were exposed to the effects of the external environment, while at the same time protecting the interior cells from exposure.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.
5. Energy channel between a physical cell and its etheric body.
6. Reverse flow of primary matter **G**.

7. Density of an etheric cell body after saturation by primary matter **G**.

**Fig. 33** — When an etheric cell body is saturated by flows of primary matter **G**, its self-dimensionality level rises. This leads to a greater degree of impact upon its microspace, thereby intensifying the degree of interaction between the physical and etheric bodies.

As a result, disintegration of the cell's molecules is activated and the etheric body undergoes an increased saturation by primary matter **G**. This leads to an increase in the cell's degree of influence upon the barrier between the cell's etheric and astral levels.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.
5. Energy channel between the physical cell and the etheric body.
6. Reverse flow of primary matter **G**.
7. Density of an etheric cell body after saturation by flows of primary matter **G**.

**Fig. 34** — After saturation of a cell's etheric body by primary matter **G** reaches a critical level, the self-dimensionality level of the cell's etheric body becomes sufficiently high to open up the qualitative barrier between the etheric and astral levels. It is as if the cell body has pushed through this qualitative barrier. Then begins the process of buildup and saturation of the astral body.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.
5. Energy channel between a physical cell and its etheric body.
6. Reverse flow of primary matter **G**.
7. Density of an etheric cell body after saturation by flows of primary matter **G**.
8. Reverse flow of primary matter **G** on the astral level.
9. Reverse flow of primary matter **F** on the astral level.
10. Astral body of a cell at its initial phase of evolution.

**Fig. 35** — As a result of its saturation by flows of primary matters **G** and **F**, the astral body of the cell undergoes an increase in its self-dimensionality level, leading in turn to an increase in its impact upon its microspace. As saturation by **G** matter of the etheric cell body continues, a critical density is reached, resulting in a reverse (descending) flow of **G** matter from the etheric to the physical level.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.
5. Energy channel between a physical cell and its etheric body.
6. Increased flow of primary matter **G**.
7. Density of an etheric cell body after saturation by flows of primary matter.
8. Increased flow of primary matter **G** at the astral level.
9. Increased flow of primary matter **F** at the astral level.

## 10. Astral body of a cell in a phase of saturation.

**Fig. 36** — When saturation by **G** and **F** matters reaches a certain critical level, the self-dimensionality level of the astral cell body becomes so high that it opens the qualitative barrier between the astral and first mental levels. This initiates a process of saturation of the first mental body by primary matters **G**, **F** and **E**.

As a result, the first mental body of the cell becomes activated and its self-dimensionality level starts to increase, triggering a return flow of primary matters onto the astral and etheric levels. Buildup or activation of a mental body already present in the spirit opens up qualitatively new opportunities for an intelligent being. The presence of a first mental body not only represents the opening of the qualitative barrier between the next planetary level and living matter, but also signals a new level of functioning.

Intelligent beings possessing activated mental bodies have access to qualitatively new levels of information and opportunities.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.
5. Energy channel between a physical cell and its etheric body.
6. Reverse flow of primary matter **G**.
7. Density of an etheric cell body after saturation by flows of primary matter **G**.
8. Reverse flow of primary matter **G** at the astral level.
9. Reverse flow of primary matter **F** at the astral level.
10. Density of an astral cell body after saturation by flows of primary matters **G** and **F**.
11. Reverse flow of primary matter **E**.
12. Density of first mental cell body after saturation by flows of primary matters **G**, **F** and **E**.

**Fig. 37** — The etheric cell bodies of multicellular organisms create a rigid system on the etheric level known as the etheric body of the multicellular organism. And, likewise, astral cell bodies create a rigid system on the astral level — the astral body of the multicellular organism. The same applies to the first mental cell bodies, which create a rigid system on the first mental level — the first mental body of the multicellular organism. The space between the cells of the organism (the extracellular space) is filled with plasma, which is the non-cellular portion of blood saturated with all the substances necessary for the cells' life support.

The saturation of lymph by organic and inorganic molecules causes the cumulative level of the plasma's self-dimensionality to become higher than the self-dimensionality level of the intracellular space bounded by the cell membrane. This generates a dimensionality gradient toward the inside of the cell. This horizontal dimensionality gradient forces molecules to move from the plasma to the inside of the cell. When the intracellular space becomes saturated with these molecules, its self-dimensionality level increases.

As a result, the horizontal gradient between internal and external **cellular environments disappears. The cell is saturated — "satiated."** The redistribution of molecules between the internal and external cellular environments reduces the self-dimensionality level of the external cellular environment. A dimensionality gradient then arises, directed from the intracellular space to the external environment. Toxic molecules, (waste products from the disintegration of the molecules trapped inside the **DNA/RNA**'s inner spiral tunnels) are then "pushed out" through the cell membrane into the extracellular space — due to the effect of the reversed horizontal dimensionality gradient. This, in essence, is how the exchange process at the cellular level takes place.

1. Physical body of a multicellular organism.
2. Etheric body of a multicellular organism.
3. Astral body of a multicellular organism.
4. First mental body of a multicellular organism.
5. The space between the cells (extracellular space) filled with lymph.
6. Molecules from the plasma, under the effect of pressure, move inside the cells.
7. Ascending and descending flows of primary matters.
8. Movement of toxins from intracellular to extracellular space.

**Fig. 38** — During normal cell functioning, primary matters, the by-products of molecular disintegration, are distributed between all levels of a cell. Thus **G** matter is part of the qualitative structure of all cell body levels and is, therefore, absorbed by them during the normal life activity of the cell.

Ascending flows of primary matters must first of all saturate an etheric cell body. After saturation of the etheric cell body, the primary matters can begin to fill the astral cell body. And only after this is accomplished, can they reach the first mental body. At this point, we are focusing on the processes occurring within the etheric body of a cell.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Density level of saturation by **G** matter of an etheric cell body.
4. Ascending flows of primary matter.

**Fig. 39** — In order to open the qualitative barrier between etheric and astral levels, an etheric cell body must attain a certain critical density.

Since the etheric body also has "weight" like any material object, it exerts an influence on its surrounding microspace.

Thus the saturation level of an etheric body by **G** matter is what regulates the degree of opening of the astral barrier.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Density level of saturation by **G** matter of an etheric cell body.
4. Ascending flows of primary matters.

**Fig. 40** — The self-dimensionality level of the astral cell body is supported by ascending flows of primary matters released during molecular disintegration inside the physical cell.

The saturation occurs gradually, starting with a certain level of saturation of the etheric body.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.

**L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between the physical and etheric levels.

**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between the etheric and astral levels.

**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between the astral and first mental levels.

**L<sub>4</sub>** — Self-dimensionality level of an astral cell body.

**Fig. 41** — When an astral cell body loses **G** and **F** matter, its self-dimensionality level decreases; the reverse descending flows of primary matter **G** cause an additional saturation of the etheric cell body. This is a very important property of interaction between cell bodies, acquired during the course of evolution.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell
4. First mental body of a cell.

**L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between the physical and etheric levels.

**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between the etheric and astral levels.

**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between the astral and first mental levels.

**L<sub>4</sub>** — Self-dimensionality level of an astral cell body

**Fig. 42** — The additional saturation of an etheric cell body by **G** matter leads to a surplus concentration of this primary matter. As a result, an additional flow of **G** matter occurs from the etheric level to the physical cell level.

This, in turn, leads to activation of the intracellular exchange processes.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.

**L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between the physical and etheric levels.

**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between the etheric and astral levels.

**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between the astral and first mental levels.

**L<sub>4</sub>** — Self-dimensionality level of an astral cell body.

**Fig. 43** — In a multicellular organism, the etheric bodies of the cells create a rigid system at the etheric level — the etheric body of the multicellular organism.

The density of the etheric body depends upon the degree of saturation by **G** matter of the etheric cell bodies. In normal functioning, the density of the etheric body is in balance with the density of the organism's astral and first mental bodies.

1. Physically solid tissue of a multicellular organism.
2. Density of the etheric body of a multicellular organism.
3. Physical cell of a multicellular organism.
4. Etheric cell body of a multicellular organism.
5. Ascending and descending flows of primary matters circulating between the physical, etheric, astral and first mental bodies of a multicellular organism.

**Fig. 44** — Under the stimulus of fear, the astral cell body ejects its accumulation of **G** and **F** matters, causing a decrease in the deformation of its surrounding microspace. As a result, the self-

dimensionality level of the astral body decreases.

This, in turn, causes the qualitative barrier between the first mental and astral levels to close again. Because fear is an extremely powerful emotion, the self-dimensionality level of the astral body drops so low as to become commensurate with the lowest of the astral plane's permissible dimensionality range.

As a result, the re-established qualitative barrier between the astral and first mental planes causes a reverse flow of the primary matter stream. This has a particularly strong impact on **G**, **F** and **E** matter due to the fact that the latter are not present in the qualitative structure of our planet's first mental plane. There then ensues a reverse flow of primary matters to the etheric body and — beyond that — toward the physical body of the cell.

The reverse flow of **G** matter also begins to saturate the etheric body of the cell, thereby increasing the etheric body's impact on the physical body. This greatly heightens the potential of the physical body of each and every cell, and therefore of the organism as a whole, thus enabling a person to save himself in moments of danger.

Just as waves lift a float, emotions can raise and lower an etheric body, orchestrating the distribution between levels of the primary matters released from the intracellular disintegration of molecules. Such a redistribution of available potential is nature's invention for allowing an organism to maximally use its potential in critical situations.

1. Physically solid tissue of a multicellular organism.
2. Density of the etheric body of a multicellular organism.
3. Physical cell of a multicellular organism.
4. Etheric cell of a multicellular organism.
5. Ascending and descending flows of primary matters circulating between the physical, etheric and astral bodies of a multicellular organism

**Fig. 45** — Apart from times of crisis, the density of a person's etheric body changes cyclically. This is due to the fact that the gradual saturation of the etheric body by **G** matter causes an increase in its density and "thickness."

This, in turn, increases the self-dimensionality level of the etheric body. When the latter reaches the upper limit of the etheric plane's dimensionality range, a person's body becomes unstable.

Thereupon, the accumulated weight of **G** matter is unloaded, which decreases the self-dimensionality level of the person's etheric body and restores it to a stable condition.

From the very beginning of a person's life this process is present. The speed of saturation of the etheric body stays virtually the same throughout one's entire lifetime, thereby lending the process a certain periodicity. The periodically changing density of an etheric body influences the physical capacity of the cells, manifested by the physical body's ability to cope with various levels of physical stress.

This cyclic process is called the "**physical biorhythm**." Thus, the nature of biorhythms is explained by periodic changes in the self-dimensionality level of one's etheric, astral and first mental bodies.

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.

**h, i, j** — qualitative barriers between a human's physical, etheric, astral and first mental bodies, respectively.

**Fig. 46** — Saturation of a human's astral body by **G** and **F** matters, leading to an increase in its self-dimensionality level. When this level reaches the upper range of the astral plane's dimensionality, the astral body is rendered unstable.

This triggers its ejection of accumulated primary matters, and thus, its return to the lowest level of its initial self-dimensionality. An astral body regulates human emotions and is therefore called the "**emotional biorhythm**."

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.

**h, i, j** — qualitative barriers between a human's physical, etheric, astral and first mental bodies, respectively

**Fig. 47** — Saturation of a human's first mental body with primary matters **G, F** and **E**, which leads to an increase in its self-dimensionality level. When this level reaches the upper limit of the mental plane's dimensionality range, it renders the first mental body unstable.

The latter then unloads its accumulated primary matters, thereby triggering its return to the lowest level of its initial self-dimensionality.

A new saturation of the first mental body by **G, F** and **E** matter then begins, and with it the self-dimensionality level again starts to increase.

The self-dimensionality level of the first mental body is what shapes and influences one's intellectual abilities. Therefore, this phenomenon is called the "**intellectual biorhythm**." Periodic saturation of the first mental body takes longer than saturation of the astral body; therefore, the intellectual biorhythm has a longer duration than the emotional one.

The delay is due to the fact that saturation of the first mental body occurs through the etheric and astral bodies.

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.

**h, i, j** — qualitative barriers between physical and etheric; etheric and astral; and astral and first mental bodies, respectively

**Fig. 48** — Position and qualitative condition of a human cell's astral body at its lowest self-dimensionality level.

Periodic fluctuations in the self-dimensionality level of a cell's astral body.

These natural fluctuations provide the opportunity for evolutionary development, both of the individual cell and of the organism as a whole.

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.

**L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between physical and etheric levels.

**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between etheric and astral levels.

**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between astral and first mental levels.

**L<sub>4</sub>** — Self-dimensionality level of an astral body.

**Fig. 49** — The position and qualitative condition of a human cell's astral body at the intermediate level of its self-dimensionality. The astral body begins to exert an increased influence on the condition of the qualitative carrier between the astral and first mental levels — initiating a more active penetration of primary matters to the first mental level.

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.

**L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between physical and etheric levels.

**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between the etheric and astral levels.

**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between the astral and first mental levels.

**L<sub>4</sub>** — Self-dimensionality level of a cell's astral body.

**Fig. 50** — The position and qualitative condition of a human cell's astral body at its maximum level of self-dimensionality. The astral body begins exerting an increased influence on the condition of the qualitative barrier between the astral and first mental levels.

As a result, primary matters begin a virtually free-moving penetration onto the first mental level.

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.

**L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between the physical and etheric levels.

**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between the etheric and astral levels.

**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between the astral and first mental levels.

**L<sub>4</sub>** — Self-dimensionality level of an astral body.

**Fig. 51** — The synchronous development of the etheric and astral bodies exerts a huge influence on a person's mentality, behavior, reactions and emotions. In the course of a lifetime, people undergo constant changes — in character, habits and temperament.

This is related to the qualitative changes in the structure of his spirit. The qualitative basis of the human spirit is manifested by four variants.

First is the **sanguine** type temperament, possessing a dominant etheric and a complete astral body — let us recall that the astral body is composed of two types of primary matter, **G** and **F**.

Generally, the sanguine types are charismatic and assertive, with sufficient development of the will to defend their position as well as convince others of its rightness.

1. Physical body.
  2. Etheric body.
  3. Astral body.
- J<sub>2</sub>** — level of development of an etheric body.
- J<sub>3</sub>** — level of development of an astral body .

**h, i, j** — qualitative barriers between the levels.

**Fig. 52** — The **phlegmatic** type of temperament possesses a dominant etheric body, but only a partial astral body (composed of only one primary matter, **G**). Phlegmatics are usually emotionally weak, but excellent at accomplishing tasks; however, the absence of a high-quality, developed astral body deprives them of the chance to experience the pleasures of creativity.

This is due mainly to the absence of higher astral structures in the cerebral neurons, which makes the appearance of creativity in such people highly problematic. The brain just does not receive the necessary volume of information, without which the creative process is simply impossible.

The dominance of an etheric body imparts a strong-willed potential, which allows the phlegmatic to perform tasks requiring great perseverance and attention to detail.

1. Physical body.
2. Etheric body.
3. Astral body.

**J<sub>2</sub>** — level of development of an etheric body.

**J<sub>3</sub>** — level of development of an astral body.

**h, i, j** — qualitative barriers between the levels.

**Fig. 53** — The **melancholic** type of temperament shows dominance of a lower astral body (composed of only one primary matter, **G**). The dominance of this type of astral body is manifested by the tendency to see everything through the prism of his emotions and to react emotionally to practically everything.

Melancholies can be easily ignited by any idea, but the absence of a well developed will does not allow them to follow matters through to a logical conclusion.

This triggers a depressive reaction to which they are very prone — getting thoroughly submerged in it for long periods of time and plagued by suicidal ideation and complete loss of self confidence.

Typically this occurs because a partial astral body is in resonance with the lowest astral plane.

1. Physical body.
2. Etheric body.
3. Astral body.

**J<sub>2</sub>** — level of development of an etheric body.

**J<sub>3</sub>** — level of development of an astral body.

**h, i, j** — qualitative barriers between the levels

**Fig. 54** — The **choleric** type of temperament is characterized by the dominance of a complete astral body (the latter being composed of **G** and **F** matters). The dominance of the astral body is manifested by the choleric's tendency to see everything through the prism of his emotions and to respond emotionally to practically everything. The difference between choleric s and melancholies lies in the fact that the choleric possesses a complete astral body, which is expressed by the dominance of positive emotions. Choleric s are almost never capable of finishing a task they have undertaken, if it requires patient, laborious and monotonous work. But these failures do not plunge them into a depressive mood like the melancholies. They tend to quickly forget about their failure and prepare themselves to embark upon another project.

1. Physical body.
2. Etheric body.
3. Astral body.

**J<sub>2</sub>** — level of development of an etheric body.

**J<sub>3</sub>** — level of development of an astral body.

**h, i, j** — qualitative barriers between the levels.

**Fig. 55** — Human emotions vary in their nature and function. One of the higher human emotions is based on harmony between the souls of a man and a woman. When harmony between them prevails on all levels, there is an interchange

Such interchange of qualities is accompanied by the circulation of primary matters between etheric, astral and (when present) first mental bodies of the male and female spirits.

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.
5. Circulation of primary matter **G** between the etheric bodies of male and female.
6. Circulation of primary matters **G** and **F** between the astral bodies of male and female.
7. Circulation of primary matters **G, F** and **E** between the mental bodies of male and female.

**Fig. 56** — A state of harmony always develops when the qualitative structures of the male and females spirits are well matched. Harmony, and the resultant feeling of love, may arise at any evolutionary phase of each partner's development. Every person during his lifetime undergoes many changes — and not just externally.

Spiritual development also leads to changes in the qualitative structure of a person's essence. And therefore, to maintain harmony, a man and woman should change synchronously.

1. Physical body
2. Etheric body
3. Astral body
4. First mental body
5. Circulation of G matter between the etheric bodies of male and female
6. Circulation of G matter between the astral bodies of male and female

**Fig. 57** — During their growth and development, teenagers (from age fourteen to twenty) pass through an evolutionary phase in which practically all of them experience an identical stage of growth. This often leads to their misunderstanding of the nature of "spiritual" affinity.

The reason for this illusion lies in a misunderstanding of the evolutionary processes of the soul and the misperception caused by a temporary harmony with another, which almost all adolescents experience before their natural and spiritual maturation has reached a higher qualitative level.

Unfortunately, the upcoming generation has not the slightest notion about the laws of spiritual development. Additionally, the development of an astral body begins with the buildup of a partial astral (i.e., lower astral) body, which is a transitional phase in its development. The side effect of this more primitive phase is a marked increase in the sexual activity of teenagers.

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.
5. Circulation of **G** matter between the etheric bodies of a boy and girl.
6. Circulation of **G** matter between the astral bodies of a boy and girl.

**Fig. 58** — Sound waves not only convey information about our surrounding world, but also directly affect the qualitative condition of a person's spiritual bodies. For example, an incoming low-frequency sound wave triggers a redistribution of primary matters around the vicinity through which it passes and disrupts their existing proportion and distribution.

An additional saturation by **G** matter then occurs, which, in turn, creates further saturation by this substance in the astral and etheric bodies of anyone in the vicinity of the sound's wavefront.

This **G** matter overload of the astral body alters its self-dimensionality level and generates compulsory emotions under the impact of the music. And it is precisely the quality of the latter — whether positive or negative — that determines what kind of emotions are evoked in the audience.

1. Physical body of a cell.
2. Etheric body of a cell.
3. Astral body of a cell.
4. First mental body of a cell.
5. Heavy saturation by **G** matter of the etheric and astral bodies of a cell under the influence of a low-frequency sound wave.

6. Overload of etheric and astral levels under the influence of low-frequency sounds.

7. Level of density of the saturation by **G** matter of an etheric cell body.

8. Level of density of the saturation by **G** and **F** matter of an astral cell body.

**L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between physical and etheric levels.

**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between etheric and astral levels.

**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between the astral and first mental levels.

**L<sub>4</sub>** — Self-dimensionality level of the astral cell body.

**Fig. 59** — Excess saturation of an area by **G** matter, which, in turn, creates additional **G** matter saturation of the astral and etheric cell bodies located in the pathway of a sound's wavefront.

1. Physical cell body.

2. Etheric cell body.

3. Astral cell body.

4. First mental cell body.

5. Excess saturation by **G** matter of etheric and astral cell bodies under the influence of a low-frequency sound wave.

6. Excess saturation of the etheric and astral levels under the influence of low-frequency sounds.

7. Density level of saturation of an etheric cell body by **G** matter.

8. Density level of saturation of an astral cell body by **G** and **F** matters.

**L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between the physical and etheric levels.

**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between the etheric and astral levels.

**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between the astral and first mental levels.

**L<sub>4</sub>** — Self-dimensionality level of an astral cell body.

**Fig. 60** — Excess saturation of a spirit's astral and etheric bodies during passage of a sound wavefront creates a difference in self-dimensionality level between that of the environment and that of the astral and etheric bodies. This, in turn, makes for some instability of these bodies.

Consequently, an unloading of surplus **G** matter occurs and the condition of the astral and etheric bodies reverts to their initial state. In many cases, the self-dimensionality of an astral body can be decreased below the level it had prior to the arrival of the sound wave. The rhythm of the music takes on a special significance.

After passage of the sound wave, within a certain time period, the self-dimensionality level of a subject's astral body reverts to the level it had prior to arrival of the sound wave. But if a new sound wave hits the subject before the astral body can return to its former level, the astral body is eventually destroyed.

1. Physical body of a cell.
  2. Etheric body of a cell.
  3. Astral body of a cell.
  4. First mental body of a cell.
  5. Excess saturation by **G** matter of a cell's etheric and astral bodies under the effect of a low-frequency sound wave.
  6. Degree of saturation of the etheric and astral levels after passage of the sound's wavefront.
  7. Density level of saturation of an etheric cell body by **G** matter.
  8. Density level of saturation of an astral body by **G** and **F** matter.
- L<sub>1</sub>** — Self-dimensionality level of the qualitative barrier between physical and etheric levels.  
**L<sub>2</sub>** — Self-dimensionality level of the qualitative barrier between etheric and astral levels.  
**L<sub>3</sub>** — Self-dimensionality level of the qualitative barrier between astral and first mental levels.  
**L<sub>4</sub>** — Self-dimensionality level of an astral cell body.

**Fig. 61** — Some variants of interaction can occur between male and female at the soul level if each partner is at a different level of spiritual development. In the absence of qualitative coordination at all levels, complete harmony cannot exist.

For example, during the interaction of male and female spirits — if one has a complete astral body (i.e., one composed of two primary matters, **G** and **F**), and the other has only a partial astral body (i.e., formed by a single primary matter, **G**), partial harmony is possible only at the level of the etheric bodies. Hence, in this case, the connection between man and woman is only sexual.

1. Physical body of the partner.
2. Etheric body of the partner.
3. First mental body of the partner.
4. Circulation of **G** matter between the etheric bodies of male and female.

**Fig. 62** — Everyone undergoes change during his lifetime. New knowledge, one's experience, one's deeds — all qualitatively change a person. These changes are reflected in the level of one's spiritual development. Thus, there are times when the evolutionary level of a male and female spirit — whether individually or conjointly developed — brings them harmony at a certain stage of their life.

1. Physical body of the partner.
2. Etheric body of the partner.
3. Astral body of the partner.
4. First mental body of the partner.
5. Circulation of **G** matter between the etheric bodies of male and female.
6. Circulation of **G** and **F** matter between the astral bodies of male and female.

**Fig. 63** — A spirit's development does not stay fixed at one point. Some can develop quickly — others more slowly. Thus, a spirit's level of development is constantly changing. Also, some may undergo leaps in their development, while others may get "stuck" or even destroy what they had already achieved. At any rate, a moment may arise when the harmony between a man and a woman disappears if either of them outstrips the progress of — the partner. The harmony at the other levels may still be salvaged, but it would no longer be complete. The possession of a mental body qualitatively affects an individual. Everything is quite literally changed, because the surrounding world moves to a qualitatively new level where judgments and perceptions of events and environment are inevitably altered.

1. Physical body.
2. Etheric body.
3. Astral body.
4. First mental body.
5. Circulation of **G** matter between the etheric bodies of male and female.
6. Circulation of **G** and **F** matter between the astral bodies of male and female.

**Fig. 64** — Where there is a marked discrepancy in evolutionary levels — for example, when harmony exists only at the etheric level, and only one partner has one or more mental bodies — harmony is basically impossible. Such a couple will experience hostility toward one another, the nature of which they would be unable to explain even to themselves. In the case of complete disharmony, the more highly developed partner may completely reject the other, because the latter's energy structure negatively impacts his or her inner spiritual state.

1. Physical body of the partner.
2. Etheric body of the partner.
3. Astral body of the partner.
4. First mental body of the partner.
5. Circulation of **G** matter between the etheric bodies of male and female.

**Fig. 65** — When harmony is present at all levels between a man and a woman, and interchange of qualities and energy occurs during sexual intercourse. Further, the direction of flow of primary matters in the male and female spirits are qualitatively different. Such qualitative distinctions cause the flow of primary matters to move in opposite directions.

Like electrons having positive and negative spins, male and female spirits also have different "spins." During merge, they form an isolated system, within which the counterflows provide an exchange of qualities.

Eastern wisdom refers to these male and female qualities as yin and yang.

1. Physical body of the partner.
2. Etheric body of the partner.
3. Astral body of the partner.
4. First mental body of the partner.
5. Circulation of **G** matter between the etheric bodies of male and female.
6. Circulation of **G** and **F** matter between the astral bodies of male and female.
7. Circulation of **G**, **F** and **E** matter between the mental bodies of male and female.
- 8, 9, 10 — direction of flow of **G**, **F** and **E** matter in the male spirit.
- 11, 12, 13 — direction of flow of **G**, **F** and **E** in the female spirit.

**Fig. 66** — During intercourse, the man and woman exchange both qualities and potential. The opportunity to give part of one's potential to a partner and to receive, in exchange, potential of a different quality is a necessary condition for continuation of development. Only the combined male-female qualities enable both partners to advance in their evolution. Since a person's state is constantly changing, the capacity to reciprocally give and receive potential may vary in each partner from day to day. Therefore, during the sexual interchange of a portion of their potential, sometimes one will receive more than one is able to give. This is not at all reprehensible if the partner returns the extra potential and keeps only the necessary potential needed for oneself.

1. Physical body of the partner.
  2. Etheric body of the partner.
  3. Astral body of the partner.
  4. First mental body of the partner.
  5. Circulation of **G** matter between the etheric bodies of male and female.
  6. Circulation of **G** and **F** matter between the astral bodies of male and female.
  7. Circulation of **G**, **F** and **E** matter between the mental bodies of male and female.
  - 8, 9, 10 — Direction of flow of **G**, **F** and **E** matter in the male spirit.
  - 11, 12, 13 — Direction of flow of **G**, **F** and **E** matter in the female spirit.
- J<sub>0</sub>** — Potential generated during a day.  
**J<sub>1</sub>** — Potential necessary for normal functioning of the organism.  
**J<sub>2</sub>** — Potential transmitted during intercourse (**G**).  
**J<sub>3</sub>** — Potential received from partner during sexual intercourse (**R**)

**Fig. 67** — The sexual interchange of potential during intercourse may vary from day to day. One day a partner may give more and receive less; the next day the opposite may occur. On average, during a normal exchange of potential, both partners give and receive equally.

1. Physical body of the partner.
  2. Etheric body of the partner.
  3. Astral body of the partner.
  4. First mental body of the partner.
  5. Circulation of **G** matter between the etheric bodies of male and female.
  6. Circulation of **G** and **F** matter between the astral bodies of male and female.
  7. Circulation of **G**, **F** and **E** matter between the mental bodies of male and female.
  - 8, 9, 10 — Direction of flow of **G**, **F** and **E** matter in the male spirit.
  - 11, 12, 13 — Direction of flow of **G**, **F** and **E** matter in the female spirit .
- J<sub>0</sub>** — Potential generated during a day.  
**J<sub>1</sub>** — Potential necessary for normal functioning of the organism.  
**J<sub>2</sub>** — Potential transmitted during intercourse (**G**).  
**J<sub>3</sub>** — Potential received from partner during sexual intercourse (**R**).

**Fig. 68** — A problem occurs when one of the partners gives considerably more than he or she receives. This represents sexual vampirism. It is particularly dangerous when a greater potential is taken than the victim is able to give without harm to the self.

When this occurs, the victim is left with less potential than needed for normal life support. As a result, the victim begins to weaken, losing more and more life force. All this can lead to complete

exhaustion and death. A sexual vampire can be either male or female.

Sometimes it happens unconsciously — for example, when one has suffered a long illness or been otherwise debilitated. However, there are people who do it consciously. The illustration depicts the situation where the sexual vampire is female.

1. Physical body of the partner.
  2. Etheric body of the partner.
  3. Astral body of the partner.
  4. First mental body of the partner.
  5. Circulation of **G** matter between the etheric bodies of male and female.
  6. Circulation of **G** and **F** matter between the astral bodies of male and female.
  7. Circulation of **G**, **F** and **E** matter between the mental bodies of male and female.
  - 8, 9, 10 — Direction of flow of **G**, **F** and **E** matter in the male spirit.
  - 11, 12, 13 — Direction of flow of **G**, **F** and **E** matter in the female spirit .
- J<sub>0</sub>** — Potential generated during a day.  
**J<sub>1</sub>** — Potential necessary for normal functioning of the organism.  
**J<sub>2</sub>** — Potential transmitted during intercourse (**G**).  
**J<sub>3</sub>** — Potential received from partner during sexual intercourse (**R**).

**Fig. 69** — This illustration depicts the situation where the sexual vampire is a male.

1. Physical body of the partner.
  2. Etheric body of the partner.
  3. Astral body of the partner.
  4. First mental body of the partner.
  5. Circulation of **G** matter between the etheric bodies of male and female.
  6. Circulation of **G** and **F** matter between the astral bodies of male and female.
  7. Circulation of **G**, **F** and **E** matter between the mental bodies of male and female.
  - 8, 9, 10 — Direction of flow of **G**, **F** and **E** matter in the male spirit.
  - 11, 12, 13 — Direction of flow of **G**, **F** and **E** matter in the female spirit .
- J<sub>0</sub>** — Potential generated during a day.  
**J<sub>1</sub>** — Potential necessary for normal functioning of the organism.  
**J<sub>2</sub>** — Potential transmitted during intercourse (**G**).  
**J<sub>3</sub>** — Potential received from partner during sexual intercourse (**R**).

**Fig. 70** — The human organism possesses special structures, called receptors. Some have specialized functions which, during their adaptation for maximum efficiency, have acquired specific properties, qualities and a unique structure. An example is the photosensitive retina of the eye, one of the tools by means of which the brain receives information from the outside world.

1. Basic cell.
2. Pigmented epithelial cell.
3. Sensor cells (rods and cones).
4. Granules.
5. Contact zone (synapses).
6. Horizontal cells.

7. Bipolar cells.
8. Layer of cell ganglia.

**Fig. 71** — Through the nerve fibers, signals from the outside world are transformed into an ionic code and travel to the brain neurons. Within the neurons a further transformation of the external signal takes place. From the evolutionary standpoint, the brain neurons are the most highly developed cells of the organism.

Their form and functional adaptation all serve but one purpose — maximum effective discharge of a certain buffer role, the intermediary between the spirit and the physical body. Additionally, their structure sharply differs from all the other cells in the body, but that is precisely what gives the "intellectual" cells the ability to fulfill their function.

1. Perikaryon.
2. Nucleus.
3. Synapse.
4. Neurite (axon).
5. Myelin sheath.
6. Node of Ranvier.
7. Terminal button.
8. Endoplasmic reticulum.
9. Dendrites.

**Fig. 72** — The spirals of the **DNA/RNA** molecules create, at the etheric level, an exact copy of the above structures from G matter. This process is possible because these molecules, with their huge molecular weight, have a spiral configuration.

The spiral form creates conditions whereby every atom contained in the molecular structure exerts a powerful impact on the microspace of the spiral's inner volume — great enough to produce a dimensionality level at which the qualitative barrier between the physical and etheric levels opens.

During this process, disintegration of the **DNA/RNA** molecules does not occur. Only the molecules trapped inside the spiral's tunnels disintegrate.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Qualitative barrier between the physical and etheric levels of the planet.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.

**Fig. 73** — An external signal in the form of an ionic code duly reaches a neuron body. As a consequence, several additional ions appear inside the neuron, thereby changing its ionic balance.

These "surplus" ions provoke additional chemical reactions, which create new electron bonds, or break existing connections, thereby changing the molecular weight and qualitative structure of the molecule.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Qualitative barrier between the physical and etheric levels of the planet.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.

**Fig. 74** — The additional microspace curvature created by the bonding of surplus atoms changes the etheric structure of the DNA/RNA molecule. The etheric imprint is saturated with a flow of G matter, thus restoring the identity of the physical and etheric structures of the DNA/RNA molecule at the physical and etheric levels.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Qualitative barrier between the physical and etheric levels of the planet.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
7. Etheric imprint of an external signal.

**Fig. 75** — Let us imagine that before the entry of signals from the external world into the brain, the etheric informational field is like a plane surface. In other words, let us take as zero level the qualitative structure and self-dimensionality level of a **DNA/RNA** molecule which an individual has at the moment of birth.

Then, any external signal entering the brain through the sense organs will change this initial picture. At death, a person's "informational field" will significantly differ from the one he had when he first appeared on earth. All the changes which are "printed" on the etheric and astral levels remain forever inscribed on a soul level.

Therefore, during a new incarnation of the spirit, the "informational field" of the previous life will become a starting point for the new embodiment and all will be repeated again. It is precisely due to this phenomenon of nature that evolutionary advancement is possible.

1. Informational field prior to the entry of signals from the external world.

**Fig. 76** — The signals from the outside world enter the brain cells in the form of ionic codes and create imprints at an etheric level. The etheric imprints form an etheric "informational field" of convexities and concavities which create a roughness on the surface of the etheric "informational plane." This anisotropy of a brain's etheric "informational field" exerts an influence on the distribution and behavior of the primary matters penetrating this "field." It is just such changes produced on the "informational field" by external signals that play a major role in the mechanism of short- and long-term memory formation and the possibility for consciousness to emerge. Every new signal from the outside world forever changes this so-called "informational field."

1. "Informational field" before entry of signals from the outside world.
2. Convexities on the etheric "informational field".
3. Concavities on the etheric "informational field".

**Fig. 77** — After entry of the ionic code into the neuron and formation of an etheric copy of the external signal, many chemical reactions occur. As a result, the chemical and qualitative structure of a **DNA/RNA** molecule reverts to its initial state, while on the etheric level, the etheric imprint of the external signal is saved.

This imprint is preserved for some time after restoration of the **DNA/RNA** molecule to its initial state prior to the signal's entry. The etheric imprint itself then disappears as well.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Qualitative barrier between the physical and etheric levels of the planet.

4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
7. Etheric imprint of an external signal.

**Fig. 78** — Just shortly after the changes in the **DNA/RNA** molecular structure disappear at the physical level, the etheric imprint becomes fainter and fainter until it disappears altogether. The "life span" of an etheric imprint depends upon the duration of the external signal and which of the organism's functions are regulating the corresponding cortical zone.

For most sense organs, the "life span" of an etheric imprint they create lasts microseconds or less. All this together makes for optimum functioning of the organism.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Qualitative barrier between the physical and etheric levels of the planet.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of the etheric spiral.

**Fig. 79** — With the possession of an etheric and astral body by a **DNA/RNA** molecule, the external signal creates an imprint on two levels. But first a change in the qualitative structure of the **DNA/RNA** molecule occurs at the physical level.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.

**Fig. 80** — The additional curvature of microspace caused by the attached "surplus" atoms changes the etheric structure of the **DNA/RNA** molecule. The etheric imprint is saturated with a flow of **G** matter and, thus, the identity of the physical and etheric structures of the **DNA/RNA** molecule are restored at the physical and etheric levels.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.

**Fig. 81** — With repeated entry into the brain of the same external signal — at time intervals

during which the etheric imprint does not disappear — or, if a strong emotional reaction accompanies the signal's entry into the brain, conditions appear for the formation of an astral imprint of the signal.

The creation of an astral imprint of an external signal opens up **a new era** in the development of living matter — **the origin of intelligence**. Seemingly, it is nothing spectacular — the appearance of an imprint on one more level. What is so surprising about it as to merit our speaking about a new age in the evolution of living matter?

The surprising part is that when conditions are created for imprints to appear at two levels simultaneously — when the brain acquires qualitative changes that are retained, at the very least, for an extensive period of time — it provides enough time to impose change after change upon them, from one signal, then another, and so on and so on... And as long as these qualitative changes do not cancel each other out, a spark of intelligence will be ignited.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.
11. Astral imprint of an external signal.

**Fig. 82** — In the presence of both etheric and astral imprints of an external signal, the chemical balance and qualitative structure of a **DNA/RNA** molecule at the physical level revert to their initial state — and the etheric and astral imprints of the external signal do not disappear. This is because the simultaneous presence of imprints at two levels, etheric and astral, creates a stable system.

The system is stable because the circulation of primary matters between these levels saturates them and provides stability.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.
11. Astral imprint of an external signal.

**Fig. 83** — When a person makes an effort to recollect something, an involuntary mental pressure arises. This activates the exchange processes that result in an increased flow of primary matters onto the etheric and astral levels.

The etheric and astral bodies then undergo heavy saturation by the corresponding primary

matters. And that, in turn, creates reverse flows of primary matters from the astral and etheric to the physical level: on the latter an etheric copy is projected of the external signal that originally created these etheric and astral imprints in the past. The etheric projection at the physical level changes the qualitative structure of microspace in the field of the projection.

Thus, at the physical level an additional curvature of microspace occurs, reflecting a change in its self-dimensionality level — in complete conformity with the ionic code of the external signal that generated the etheric and astral imprints. As in photo development, first the image is fixed on film, then a light passed through the negative reconstructs the image on photographic paper. Indeed, a curious analogy between photography and mechanisms of memory, is it not?

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.
11. Astral imprint of an external signal.

**Fig. 84** — Under the impact of the etheric projection on a physical level, the qualitative structure of microspace changes in the projection zone, and the atoms are forced to fall in a given order. As a result — on the physical level, the ionic code of the external influence from the past is completely restored. In other words, the person recalls the desired information.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.
11. Astral imprint of an external signal.

**Fig. 85** — Here, two processes are shown in neurons at the etheric and astral levels: their saturation by primary matters and the loss of these primary matters. When an infection is present in the cerebrospinal fluid (and in some other cases), the balance between the incoming and outgoing flows of primary matters is disrupted.

This imbalance most severely affects the ascending and descending flows of primary matters between the neurons' astral and etheric levels — until a moment arrives when the circulation between these levels ceases completely.

This, in turn, robs the brain of its ability to "pull out" the information stored in it. At the same time, the short-term memory continues to function, but the "life span" of the etheric imprint is con-

siderably reduced. This is due to the fact that the active circulation between etheric and physical levels becomes substantially weakened.

Thus, the speed of saturation,  $V_1$ , by G matter, of an etheric imprint becomes equal to or lower than the speed of loss,  $V_2$ , by an imprint, of this primary matter. And this means that with short-term memory in such a state, one very quickly forgets information.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.
11. Astral imprint of an external signal.

$V_1$  — Speed of saturation of an etheric imprint by G matter.

$V_2$  — Speed of loss of G matter by an etheric imprint of G matter..

**Fig. 86** — If the speed of loss,  $V_2$ , of G matter, by an etheric imprint is significantly greater than the speed of saturation,  $V_1$ , of an etheric body, a loss of short-term memory results.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.
11. Astral imprint of an external signal.

$V_1$  — Speed of saturation of an etheric imprint by G matter.

$V_2$  — Speed of loss of G matter by an etheric imprint of G matter.

**Fig. 87** — The etheric imprints of external signals themselves represent deformations of the etheric level that has been filled in with G matter, and they can be deformed completely destroyed under the impact of spurts and turbulent flows of primary matters. Such anomalies are caused by stress, brain concussions, various types of radiation, etc.

Destruction of the etheric imprints forming short- and long-term memory is due to the fact that the above-described changes in the etheric and astral structures of the **DNA/RNA** molecules have no constant support or replenishment from the physical level.

In other words, the qualitative structure of the **DNA/RNA** molecules at the physical level differs from their qualitative structure at the etheric and astral levels. Therefore, lacking a "foundation" on the physical level, the etheric imprint is damaged or completely obliterated.

1. Spiral of a **DNA/RNA** molecule at the physical level.
  2. Etheric body of a **DNA/RNA** molecule.
  3. Astral body of a **DNA/RNA** molecule.
  4. Enlarged section of a spiral at the physical level.
  5. Corresponding enlargement of an etheric spiral.
  6. Corresponding enlargement of an astral spiral.
  7. Qualitative barrier between the physical and etheric levels of the planet.
  8. Qualitative barrier between the etheric and astral levels of the planet.
  9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
  10. Etheric imprint of an external signal.
  11. Astral imprint of an external signal.
  12. Turbulent flows at the etheric level.
- V<sub>1</sub>** — Speed of saturation of an etheric imprint by **G** and **F** matter.
- V<sub>2</sub>** — Speed of loss of **G** and **F** matter by an etheric imprint.

**Fig. 88** — Most often, when turbulent flows of primary matters arise, they behave like a tidal wave upon one area or another of the brain, sweeping away everything in their path. The etheric imprints disappear without a trace, unable to withstand the impact, while the astral imprints of the external signals very often do not collapse — being more stable than the etheric imprints due to their inertness, inherent in the qualitative difference between an astral and etheric imprint.

1. Spiral of a **DNA/RNA** molecule at the physical level.
  2. Etheric body of a **DNA/RNA** molecule.
  3. Astral body of a **DNA/RNA** molecule.
  4. Enlarged section of a spiral at the physical level.
  5. Corresponding enlargement of an etheric spiral.
  6. Corresponding enlargement of an astral spiral.
  7. Qualitative barrier between the physical and etheric levels of the planet.
  8. Qualitative barrier between the etheric and astral levels of the planet.
  11. Astral imprint of an external signal.
- V<sub>1</sub>** — Speed of saturation of an etheric imprint by **G** and **F** matter.
- V<sub>2</sub>** — Speed of loss of **G** and **F** matter by an etheric imprint.

**Fig. 89** — If the speed of saturation, **V<sub>1</sub>**, by primary matters, of an astral imprint, exceeds the speed of loss, **V<sub>2</sub>**, a gradual accumulation of **G** and **F** matter occurs. When the saturation level of an astral imprint by primary matters reaches a critical point, the latter are emitted.

The return flow then opens the qualitative barrier between the astral and etheric levels from the "opposite" direction — i.e., from the astral to the etheric level. As a result, an astral projection of the external signal's imprint appears at the etheric level. This astral projection changes the dimensionality level of the etheric microspace in complete conformity with its own qualitative structure. Thus, at the etheric level, the etheric projection is restored — and the memory is retrieved.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.

6. Corresponding enlargement of an astral spiral.
  7. Qualitative barrier between the physical and etheric levels of the planet.
  8. Qualitative barrier between the etheric and astral levels of the planet.
  9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
  10. Etheric imprint of an external signal.
  11. Astral imprint of an external signal.
  12. Turbulent flows at the etheric level.
- V<sub>1</sub>** — Speed of saturation of an etheric imprint by **G** and **F** matter.
- V<sub>2</sub>** — Speed of loss of **G** and **F** matter by an etheric imprint.

**Fig. 90** — An astral projection at the etheric level — following the rather lengthy action of reverse flows of primary matters from the astral level — will transition smoothly into the corresponding deformation at the etheric level.

During the filling of this deformation by **G** matter, a new etheric copy is created, precisely repeating the astral copy of the external signal. At both etheric and astral levels, the original structure of the memory code is restored — the same memory that was created by an external signal before the destruction of the etheric imprint.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
11. Astral imprint of an external signal.

**Fig. 91** — If an etheric copy now undergoes hypersaturation by **G** matter, a reverse flow of this matter will arise on the physical level. Here, at the physical level, an etheric projection of the external signal is formed.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms linked to the receptor sites of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.
11. Astral imprint of an external signal.

**Fig. 92** — An etheric projection at the physical level also triggers a change in the self-dimensionality level of the microspace of the projection zone. This, in turn, results in the restoration

of the ionic code of an external signal at the physical level.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal.
11. Astral imprint of an external signal.

**Fig. 93** — Two adjacent neurons, containing — on the etheric and astral levels — ionic code imprints of two different external signals. The etheric and astral structures of these neurons are not interconnected, but each imprint of an external signal changes the qualitative structure of the DNA/RNA molecules on the etheric and astral levels. Whenever the etheric and astral imprints of an external signal are present, the opportunity arises of accumulating qualitative changes in the etheric and astral structures of the **DNA/RNA** molecules.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
9. Surplus atoms bonding to a section of **DNA/RNA** molecular spiral at the physical level.
10. Etheric imprint of an external signal of the first neuron.
11. Astral imprint of an external signal of the first neuron.
12. Etheric imprint of an external signal of the second neuron.
13. Astral imprint of an external signal of the second neuron.

**Fig. 94** — A newly arrived external signal creates etheric and astral imprints on the etheric and astral levels of a neuron.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
10. Etheric imprint of an external signal of the first neuron.

11. Astral imprint of an external signal of the first neuron.
12. Etheric imprint of an external signal of the second neuron.
13. Astral imprint of an external signal of the second neuron.
14. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal.
15. Etheric imprint of a new external signal of the second neuron.
16. Astral imprint of a new external signal of the second neuron.

**Fig. 95** — In long-term memory formation, etheric and astral imprints of a new external signal are saved forever, or, at least for a very long period of time, even after the qualitative structure of the **DNA/RNA** molecule is restored at the physical level. Thus, each new external signal creates an additional change in the qualitative structure of the **DNA/RNA** molecule on the etheric and astral levels. A distinctive buildup of etheric and astral structures occurs with the arrival of each new signal.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
10. Etheric imprint of an external signal of the first neuron.
11. Astral imprint of an external signal of the first neuron.
12. Etheric imprint of an external signal of the second neuron.
13. Astral imprint of an external signal of the second neuron.
14. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal.
15. Etheric imprint of a new external signal of the second neuron.
16. Astral imprint of a new external signal of the second neuron.

**Fig. 96** — Upon entry of a new external signal, the first neuron acquires an additional etheric and astral imprint upon its etheric and astral levels. Each new external signal adds another "brick" in the construction of the "consciousness building." Microscopic changes in the etheric and astral structures of the **DNA/RNA** molecules keep accumulating with each new record of an external signal — and then a moment arrives when the etheric and astral structures of the adjacent cerebral neurons join together.

A gradual accumulation of quantitative changes in the etheric and astral structures ensues; such accumulation occurs only during the formation of long-term memory structures.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.

7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
10. Etheric imprint of an external signal of the first neuron.
11. Astral imprint of an external signal of the first neuron.
12. Etheric imprint of an external signal of the second neuron.
13. Astral imprint of an external signal of the second neuron.
14. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal.
15. Etheric imprint of a new external signal of the second neuron.
16. Astral imprint of a new external signal of the second neuron.
17. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal into the first neuron.
18. Etheric imprint of a new external signal of the first neuron.
19. Astral imprint of a new external signal of the first neuron.

**Fig. 97** — When a new external signal of the first neuron creates etheric and astral imprints, a new segment of long-term memory is formed. With formation of long-term memory, increasingly stable and durable etheric and astral imprints of the external signals appear at the etheric and astral levels.

During this process, the etheric and astral neuronal structures grow in number and in size. They also become increasingly "heavy." Each new external signal leaves its trace on the etheric and astral neuronal structures and then disappears into infinity.

But in its brief life span, each external signal has time to accomplish its most important "task" — that of creating changes on the etheric and astral levels of the cerebral neurons. Like busy bees, they store their "honey" in the common "hive" — the brain.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
10. Etheric imprint of an external signal of the first neuron.
11. Astral imprint of an external signal of the first neuron.
12. Etheric imprint of an external signal of the second neuron.
13. Astral imprint of an external signal of the second neuron.
14. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal.
15. Etheric imprint of a new external signal of the second neuron.
16. Astral imprint of a new external signal of the second neuron.
17. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal into the first neuron.
18. Etheric imprint of a new external signal of the first neuron.
19. Astral imprint of a new external signal of the first neuron.

**Fig. 98** — The process of "growing" the etheric and astral structures of the cerebral neurons — by impacting them with more and more new informational signals from the outside world — culminates, finally, in the following: at a certain moment in this process, the etheric and astral structures of the neighboring neurons of the brain actually connect with one another and create a qualitatively new formation — the system of etheric and astral structures of the brain neurons.

Through the zones of linkage, primary matters begin to circulate not only vertically, as occurred when each neuron was detached from its neighbor, but also horizontally — from one neuron to another, and so on. A system of mutually interacting neurons arises — and this signals **the birth of consciousness**.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
10. Etheric imprint of an external signal of the first neuron.
11. Astral imprint of an external signal of the first neuron.
12. Etheric imprint of an external signal of the second neuron.
13. Astral imprint of an external signal of the second neuron.
14. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal.
15. Etheric imprint of a new external signal of the second neuron.
16. Astral imprint of a new external signal of the second neuron.
17. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal into the first neuron.
18. Etheric imprint of a new external signal of the first neuron.
19. Astral imprint of a new external signal of the first neuron.
20. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level after arrival of a new external signal in the second neuron.
21. Etheric imprint of a new external signal of the first neuron.
22. Astral imprint of another new external signal of the first neuron.
23. Linkage zone of the etheric structures of the first and second neurons.
24. Linkage zone of the astral structures of the first and second neurons.

**Fig. 99** — Once the molecular structure of the first neuron is restored to its original state prior to the entry of the external signal, the interconnection on the etheric and astral levels does not disappear. A system of etheric and astral neuronal structures, created by such interconnections, remains and does not disappear if it has originated simultaneously on the etheric and astral levels.

The presence of closed systems of etheric and astral neuronal structures allows man to think, without depending upon the presence of informational signals from the outside world. **Man acquires the capacity for abstract thinking**.

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.

3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
10. Etheric imprint of an external signal of the first neuron.
11. Astral imprint of an external signal of the first neuron.
12. Etheric imprint of an external signal of the second neuron.
13. Astral imprint of an external signal of the second neuron.
14. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal.
15. Etheric imprint of a new external signal of the second neuron.
16. Astral imprint of a new external signal of the second neuron.
17. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal into the first neuron.
18. Etheric imprint of a new external signal of the first neuron.
19. Astral imprint of a new external signal of the first neuron.
20. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level after arrival of a new external signal in the second neuron.
21. Etheric imprint of a new external signal of the first neuron.
22. Astral imprint of another new external signal of the first neuron.
23. Linkage zone of the etheric structures of the first and second neurons.
24. Linkage zone of the astral structures of the first and second neurons.

**Fig. 100** — Through the zones of linkage, primary matters begin to overflow from one neuron to another, creating additional saturation of the etheric and astral neuronal bodies in a chain. The additional saturation impacts the self-dimensionality level of the etheric and astral bodies of these neurons — the "heavier" neurons to a greater degree than the neurons not connected in chains — thereby influencing the condition of the surrounding microspace.

As a result, the "heavy" neurons start to connect with the etheric and astral structures of the so-called passive neurons — without any informational stimuli from the outside. **And thus is born the capacity to think!**

The presence of closed systems of etheric and astral neuronal structures allows man to think, without depending upon the presence of informational signals from the outside world. Man acquires **the capacity for abstract thinking.**

1. Spiral of a **DNA/RNA** molecule at the physical level.
2. Etheric body of a **DNA/RNA** molecule.
3. Astral body of a **DNA/RNA** molecule.
4. Enlarged section of a spiral at the physical level.
5. Corresponding enlargement of an etheric spiral.
6. Corresponding enlargement of an astral spiral.
7. Qualitative barrier between the physical and etheric levels of the planet.
8. Qualitative barrier between the etheric and astral levels of the planet.
10. Etheric imprint of an external signal of the first neuron.

11. Astral imprint of an external signal of the first neuron.
12. Etheric imprint of an external signal of the second neuron.
13. Astral imprint of an external signal of the second neuron.
14. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal.
15. Etheric imprint of a new external signal of the second neuron.
16. Astral imprint of a new external signal of the second neuron.
17. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral on the physical level after entry of a new external signal into the first neuron.
18. Etheric imprint of a new external signal of the first neuron.
19. Astral imprint of a new external signal of the first neuron.
20. Surplus atoms bonding to a section of a **DNA/RNA** molecular spiral at the physical level after arrival of a new external signal in the second neuron.
21. Etheric imprint of a new external signal of the first neuron.
22. Astral imprint of another new external signal of the first neuron.
23. Linkage zone of the etheric structures of the first and second neurons.
24. Linkage zone of the astral structures of the first and second neurons.

## **Contents**

Volume 2

Introduction.

Preface by Barbara G. Koopman .

Preface by Mark J. Friedman.

Chapter 7. The nature and evolution of consciousness.

Chapter 8. The nature of life after death.

Chapter 9. The nature of karma.

Chapter 10. The nature of psychological phenomena in man.

Chapter 11. The nature and evolution of geopsychology phenomena in man and society.

Chapter 12. The nature of cosmopsychology phenomena in man and society: the influence of cosmopsychical phenomena on the development of civilization.

Appendix. Guide to Illustrations.

[www.levashov.org](http://www.levashov.org)  
[www.levashov.info](http://www.levashov.info)  
[www.levashov.name](http://www.levashov.name)