

DAWN OF THE COSMIC AGE

A SURVEY OF MAN'S ROOTS IN THE PRIMORDIAL ORGONE ENERGY OCEAN

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To Damian and all of the children of the future.
May he and they learn to live in harmony with
functional processes of the cosmic, primordial
Life Energy.

TABLE OF CONTENTS

Preface	I & II
*** 1 *** LIFE ENERGY AND THE COSMIC AGE	1
*** 2 *** A FUNCTIONAL APPROACH TO THE WORLD	8
The Orgonomic Potential	9
Living Orgonotic Systems	12
Pulsation	16
The Relationship between Soma and Psyche	18
Orgone Energy Field	24
Superimposition	26
Nonliving Orgonotic Systems	30
Atmospheric Orgone Energy Envelope	32
Orgone Energy and the "Ether"	34
*** 3 *** THE NATURE OF NATURE	43
Initial Explorations	43
Experiments with the Orgone Energy Accumulator	46
Dowsing and the Interaction of Bio-energetic Fields	56
*** 4 *** PROJECT OCULAR CLOUD-BUST	60
A Mechanical Cloud-buster Apparatus	68
Cloud-busting with the (CLB) Apparatus	70
Cloud-building with the (CLB) Apparatus	71
The Human Potential for Ocular Cloud-busting and Cloud-building	72
The Functional Dynamics of Project Ocular Cloud-bust	76
Epilogue	83
Section: Graphs and Illustrations	

P R E F A C E

I, like my venerable spiritual mentor, Dr. Wilhelm Reich, have always been drawn to the genuinely deep, in contact with human feelings and social realities plays of Henrik Ibsen. Please do not confuse my use of the word 'spiritual' with what it usually means to an occultist, a metaphysician, a mystic or a member of an organized religion. *Spiritual* to me is the capacity to experience full bio-energetic contact with beloved, inspiring human beings, great truths, beautiful music or the pulsating, vibrant Life Energy immanent in nature and throughout the universe. Ibsen spoke especially to those individuals who, faced with counterproductive, life-negative cultural mores and alienating social setups, choose to become innovators in a quest for change. Such an unconventional person soon enough finds himself walking along a very lonely path, a path bordered by dense undergrowth from behind which self-proclaimed upholders of the status quo spit and take potshots at him. Should randomly spread malicious gossip, slander and character assassination fail to turn this human being into a bitter recluse or drive him into despair and suicide, a well-orchestrated witchhunt (termed the *emotional plague* by Reich) goes into high gear and finds the ways and means to kill him. Ibsen, himself, caught up in tumultuous (EP) undercurrents, was finally paralyzed. Reich, of course, perished at the hands of the pestilent reactions which he had so masterfully diagnosed and valiantly fought against. Other eminent examples are: Beethoven (impoverished, isolated and deaf) Gauguin and van Gogh (suicides) Kepler, Mozart and Tesla (poverty and isolation) Nietzsche (mental collapse). It is a dismal, an evil legacy; a legacy that has to leave one wondering whether or not so-called "homo normalis" is basically cruel and sadistic? For me, personally, this has become much more than just a rhetorical question. Dr. Reich argued vehemently that human destructiveness is not inborn. I agree.

There are those who have become convinced, in view of the murderous first three-quarters of the 20th century, that only the inception of a therapeutic age can now halt mankind's march into chaos. This is a good idea and it deserves our serious consideration. However, it will remain an illusory, impractical scheme as long as people continue to hide their emotional illness from themselves. The bottom line is: we must admit to being an emotionally debilitated species before steps can be taken toward a cure. There need be no guilt or blame attached to such an admission. We have only to realize that bio-energetic dysfunction is an inevitable, unavoidable aspect of our adaptation to the cultural <> conceptual paradigm that has dominated us for millennia. Just as the Earth and nature constantly evolve, so too can a *self-imposed cultural paradigm* change. The muscular and psychological armor of the human being will no longer be the necessary survival mechanism that it now is once we consciously, deliberately opt to raise healthy (= bio-energetically intact) children. These children will then spontaneously and peacefully

transform society. They will not need to adapt to inflexible institutions or to false values. Instead, they will adjust institutions and values to suit human needs. Knowledge of the functional laws of nature was pioneered by Wilhelm Reich. As a direct consequence, for the first time in history, mankind has access to the practical techniques and tools that can turn the vision of a cosmic age of unsurpassed human achievements into a reality. As Henry Miller summed it up: "Whatever happens to this earth today is man's doing. Man has demonstrated that he is master of everything - except his own nature. If yesterday he was a child of nature, today he is a responsible creature. He has reached a point of consciousness which permits him to lie to himself no longer. Destruction is now deliberate, voluntary, self-induced. We are at the node: we can go forward or relapse."

This book represents *the triumph of the human spirit*. Many of its pages were literally penned in the author's blood. By this I mean that the many adverse influences that I had to overcome have taken their toll. Those who would like to label me as being an "enemy of the people" are nothing more nor less than life-negative reactionaries. They rage against yet another individual and his work that confronts stagnant views of life and the universe with vivifying, potent orgone energy dynamics. If the hearts and minds of decent people become poisoned by an organized campaign that is designed to distort life-affirmative insights, then the following gloomy observation made by Reich is confirmed. "That which governs the world today and has power is not only alien to the feeling of living beings, it is hostile to it, as if it were especially designed to smother it."

Ibsen's play, "An Enemy of the People", portrays Dr. Stockmann as being a man who has to forfeit his comfortable sense of community. He becomes a solitary, persecuted individual because he cannot compromise the truth for the sake of those vested interests that are tied to the continued existence of a polluted water system. Anyone who is fighting at the vanguard of humanity's evolving consciousness finds himself in Dr. Stockmann's shoes. Outwardly, it may appear to be a losing position. However, inwardly, the individual knows who *the real losers* are and that he and his values are fated to win. He realizes that violent social upheavals are exercises in futility. He neither seeks nor advocates such revolutions. *His victory is the satisfaction of knowing that new, fertile ideas have been released to a humane, magnanimous future destiny.*

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*** CHAPTER 1 ***

LIFE ENERGY AND THE COSMIC AGE

"No great poet or writer, no great thinker or artist has ever escaped from this deep and ultimate awareness of being somehow and somewhere rooted in nature at large. And in true religion this was always felt, though never factually comprehended. Until the discovery of the cosmic orgone energy. This experience of one's own roots in nature was either mysticized in the form of transpersonal, spiritual images, or ascribed to an unknowable, forever closed realm beyond man's reach. This is what has always turned the quest for knowledge into mystical, irrational, metaphysical, superstitious beliefs... The discovery of the cosmic orgone ocean, its realities, and concrete physical manifestations such as the flowing of life energy in living organisms, puts an end to the compulsion of turning deeper searching into unreal, mystical experiences. The human animal will slowly get used to the fact that he has discovered his God and can now begin to learn the ways of "God" in a very practical manner. The human animal may well continue fighting his own full self-awareness for centuries to come; he may well continue to murder one way or another those who threaten his self-imposed blindness by orgonomic disclosures. As a mechanist or chemist, he will most probably defame this truly physical insight as a return to phlogiston theory or to alchemy and as a religious fanatic, he may well feel inclined to regard such a quest for extension of knowledge as a challenge to the greatness of the idea of an unknowable God, as criminal blasphemy. However this may be, the events cannot be reversed any longer. The discovery of the cosmic orgone ocean and its bio-energetic functioning is here to stay." - W. Reich

The concept of a cosmic life energy has been with humanity ever since the beginning of civilization. Five thousand years ago the ancient Chinese based their whole philosophy on the existence of a ubiquitous energy which they called *Ch'i*. "The Chinese philosopher Wang Ch'ung (A.D. 27-95) wrote that the "Ch'i" is the original material substance, the primal energy that motivates the Tao or fundamental law of nature. "Ch'i" has three major senses in Chinese, i.e., breath, air and energy. The original meaning was "air" or "vapor." [1] "The Chinese had always said that there is a constant interplay between the mind, the body, and environment. All three were linked by the vital energy." [2]

The vital force, which we now know to be orgone energy, was not the brain-child of some Eastern metaphysician. This is proven by the fact that the 'concept' was very practically applied in the field of medicine. *Acupuncture* alleviates the ills of its patients by manipulating the flow of "Ch'i" energy into and through the organism. The ancient Chinese physician "deduced" that the human being was in essence a very intricate and sensitive energy system. Anyone who has ever seen an acupuncture chart of the human body either dismisses all those meridian lines and points of high energy radiation as the delusion of some strung-out LSD freak or acknowledges that this is a real blueprint of the energetic structure of that subtle organism called man. The former opinion is, unfortunately, the dominant one in our occidental culture. Be that as it may, the latter insight will eventually come into focus and with it a new, dynamic self-image will emerge.

How, one might ask, could the ancient Chinese have plotted the lines and found the precise locations of all those intensive energy points? We, afterall, can neither see nor feel any of those "postulated" points. This is, in my opinion, a valid question. However, merely because the average mortal of our sophisticated, technological world cannot see or feel them does not mean that a people who were probably more in touch with themselves and nature were blind and insensitive to these same phenomena. As Lawrence Blair says in his book, RHYTHMS OF VISION, "We cannot see the seasonal movements of the lichens across the continents, as did the red indians; feel in the blood, as they did, the migrating herds, the shoals of fish. We of the cities scarcely gaze up at the night sky anymore, and when we do what we see is flat, pinpricked like a board - not coiling with suns through deep dimensions of time. We can sense that even the health and beauty that remain in our bodies are but an echo from the primal days of strength and sunlight. In crowds milling in the streets we see faces weighed with a pain and myopia of which the sufferers themselves are unaware." [3]

I am inclined to believe that a good percentage, if indeed not all, of the ancient peoples who sought not so much to control and dominate but rather to harmonize with nature, could, either naturally or with some effort, see these energy emanations. Even today there are among us those exceptional, 'gifted' individuals, whom we quickly label as being clairvoyants and psychics, who claim to have retained this human potential. These individuals are, of course, looked at askance and are more often than not considered to be frauds. The orthodox scientific community maintains its sense of security by putting them in the same box with the otherworldly mystics and their superstitious fellow travelers. Eileen Garrett, a very practical, down to earth woman who is also a highly successful business executive is living proof that this contrived stereotyping has no basis whatsoever in fact. She states in her book, AWARENESS, "Throughout my whole life I have been aware of the fact that everyone possesses a second body - a double. The double is a distinct fact in Eastern theosophical teaching and as such is said to be an *energy body*, a magnetic area associated with the physical human corpus, an area in which the immaterial forces of the cosmos, the solar system, the planet and one's immediate environment are normally transformed in the life and belief of the individual."

Even though the contemporary human being stalks the planet with impaired vision, both in the optical and Weltanschauung sense of the word, it has been scientifically demonstrated that with the aid of dicyanin screens the invisible aspects of our being can once again be viewed. Dr. W.J. Kilner, at the turn of this century, published a medical work aptly entitled, THE HUMAN ATMOSPHERE. It was considered to be an outrageous book by his peers and its veracity was never acknowledged during his lifetime. Dr. Kilner neither was nor ever claimed to have been a clairvoyant. He was a courageous, skilled physician who pioneered the use of dicyanin screens to make the 'human atmosphere' visible. He wrote, "As long as the faculty of perceiving the *aura* is confined to a few individuals, and ordinary people have no means of corroboration or refutation, the door to imposture is open. Since this has been the case up to the present time, the subject has always been looked at askance; but there is no more charlatanism in the detection of the human aura by the methods that we employ, than in distinguishing microbes by the aid of the microscope.

The main difference lies in the claim of some people that they are able to perceive the one through the possession of abnormal eyesight, while no one has had the hardihood to assert that they had the power of seeing an object one-thousandth of a millimeter in length without instrumental aid. There cannot be the slightest doubt as to the existence of an aura enveloping human beings, and this will be in short time an universally accepted fact, now that it can be made visible to anyone possessing normal eyesight." [4]

The optimistic doctor penned that prediction almost seventy years ago. It seemed, to Kilner, logical that if one could, as he did, easily diagnose incipient disease and conditions that ranged from hysteria to epilepsy by a careful analysis of the aura, then such a potent weapon in the fight against pain and suffering would promptly find its way into the medical arsenal. He had, however, seriously misjudged the rationality of his colleagues. Dr. Reich knew and could have told him that, "It is the basic evasion of the essential which is the problem of man." [5] Kilner had come too close for comfort to the essential. His generation was not equipped intellectually or emotionally to wallow out of the morass of wrong-headed notions about what man is and therefore they could not help him to break a fresh trail into a promising frontier.

To summarize: I have concluded that the ancient Asiatic cultures had direct contact with *orgone energy*, i.e., what the Chinese called "Ch'i", what the Hindus call Prana and what the Japanese refer to as Ki. Clairvoyants can see the energy emanations at will. The physician, Kilner, perfected a technique which allows anyone with normal eyesight to view the 'human atmosphere' through dye-filled lenses. Nevertheless, modern medicine still regards its patients as being essentially complex machines which suffer mechanical breakdowns due to physical stress and get sick because of chemical imbalances. The fact is that the body is basically a colloid substance. There is no such thing as a fluid machine.

The mechano-chemical self-image is clearly reflected in our mechanized, computerized, drug culture. The burgeoning multi-billion dollar pharmaceutical industry shows how much profit can be reaped once an entire society becomes enslaved to a false image. We wake up to a pill, take them during the day for headache, indigestion, nerves and need yet others to fall asleep. Everything from the common cold to depression to cancer is treated with the proper pills. We hack at the twigs and branches of the diseases while the roots remain intact.

It was direct visual contact that provided us with the detailed descriptions of a radiant, pulsating, biological energy field. It used to be said that "seeing is believing". Modern man, however, mistrusts his senses to such an extent that unless some mechanical apparatus can provide objective proof of the validity of a subjective observation, it simply does not exist for him. It is conveniently explained away as being a personal bias, as an entoptic illusion or just bad seeing.

Wilhelm Reich, in the late 1940's, began to take pictures of the phenomena that he had subjectively felt and discovered. He captured, on one of his photographs, the *orgone energy field* between the palms of the hands. "It was produced by letting an X-ray beam pass through an excited OR energy field. It shows a wavy pattern in the darkening of the

emulsion, as if matter of small uneven density had been placed between the palms. Also, at the tips of the fingers and between them, radially proceeding patterns can easily be distinguished." [6]

He also constructed, at this stage of his research, an *OR energy field meter*. While biologists like Burr and Ravitz claimed that the existence of an energy field around living cells and organisms was well-documented and that this energy was electromagnetic in nature; Reich knew better. "In orgone physics, however, we contend that this field has nothing to do with electromagnetism and is in reality an orgone energy field, i.e., a field of specific biological energy. It functions at-a-distance without the need for material contact between the body surfaces of the organisms. My own experiments with the oscillograph and the recently constructed orgone energy field meter have shown not only that such an energy field exists but also that its area of radiation varies considerably from individual to individual, from as little as a few centimeters to as much as four meters (according to observations made up to now). It also varies with any given organism, i.e., it expands and contracts. These functions of the energy field are dependent upon the emotional state of the organism." [7]

More recently, the Russian technicians, Semyon and Valentina *Kirlian*, invented a mode of photography which reveals the intricacies of the orgone energy emanations in all their beauty and color. Briefly, the Kirlian method can be described as: "Photography with high frequency electrical fields which involves a specially constructed high frequency spark generator or oscillator that generates 75,000 to 200,000 electrical oscillations per second. The generator can be connected to various clamps, plates, optical instruments, microscopes or electron microscopes. The object to be investigated (finger, leaf, etc.) is inserted between the clamps along with photo paper. The generator is switched on and a high frequency field is created between the clamps which apparently causes the objects to radiate some sort of bio-luminescence onto the photo paper." [8]

It is interesting to note that Dr. Reich, during his experiments with atmospheric orgone energy, found some peculiar interactions between electromagnetic and orgone energy. Orgone energy is excited by electromagnetism. One result of this excitation was usually luminescence. Of course, the mechanistic scientist, who seeks above all else to maintain his aloof, objective peace of mind, prattles that what is demonstrated by *Kirlian photography* is nothing but "the cold emission of electrons". Many American scientists have already written *Kirlian photography* off as constituting a commonplace electrical phenomenon.

Kirlian photography has shown that, "Using a high magnification system, one sees discharge channels arranged on the background configuration of the skin and they exhibit a variety of energy emission characteristics. They may be point-like, crown-like, flare-like, or clot-like. They may have different coloring such as sky blue, various shades of lilac or yellow, and they may be bright or faded. Some of the channels glow constantly, some are twinkling, some flare up periodically, some are stationary, and some are moving, changing always from place to place. In certain sections of the skin, one sees immobile flare-up points which exhibit a definite rhythm and are light blue or golden in color.....

Some clots are continually spilled out from one point of the skin onto another where they are absorbed." [9]

Now compare the picture rendered by an apparatus with Dr. Kilner's eyewitness account: "Very shortly after the commencement of our observations, rays or streams, or patches of brightness were noticed emanating from various parts of the body. These projections often appear suddenly, then as quickly vanish, while others may remain visible during the whole time of our inspection. The ordinary manner of their occurrence is for one part of the aura to become brighter and generally more dense. Commonly rays are colorless, but they may be tinged with different hues. They may be divided into three groups: 1st. Rays appearing in and surrounded by the aura itself, being entirely separated from the body. 2nd. Rays proceeding from one part of the body to another. 3rd. Rays projected straight out from the body into space." [10]

One view undoubtedly confirms the reality of the other. If the individual is not completely blind then the tie-in of acupuncture is clearly evident. What else but major acupuncture points are these "immobile flare-up points" on the skin? The Russians, who might lag behind us in the exploration of outer space but who are apparently far ahead of us in the realm of inner space, have invented the "bio-meter" which locates intense energy points on the surface of the organism. "By careful study of the location of the major flare points on the body, the Soviets have shown them to correspond to the active points marked on the Chinese maps of acupuncture points." [11]

Acupuncture is not a pseudo-medical practice which was concocted by some Eastern shaman nor is it what the "sophisticated" Western physician would like to believe it is, i.e., a psychological placebo. What Mrs. Garrett sees with the unaided eye and what Dr. Kilner viewed through special lenses does exist. The *orgone energy field* is an integral part of every living organism on the face of our Earth (a planet, by the way, which is itself suspended within an orgone energy envelope) from the tiniest protozoan to an individual human cell to the ageless Sequoia tree in the lush forests of northern California. A thorough knowledge of the properties and functions of the orgone energy (= life energy) will do no less than usher in the *cosmic age* of humanity!

What the electronic technique of Kirlian photography makes visible is not an *electrical* phenomenon. Although the effects are excited through the medium of high frequency electrical currents, they cannot be grasped with concepts like the "cold emission of electrons". This amounts to glib technical jargon and is once again a graphic example of "the basic evasion of the essential". Anyone who is fully conversant with orgone energy dynamics would have to agree that in the case of the mechanistic scientist: "Most attempts to describe what is actually being measured by Kirlian photography have had to confine themselves to the level of effect, since we have no clear, conceptual basis yet for discerning their cause." [12] These oracles of empirical wisdom will, sooner or later, have to recognize the fact that such a "conceptual basis" is already extant in the findings of *orgonomy*, the science of the orgone energy.

Let us conclude this comparison of ancient acupuncture, the clairvoyant's aura, Dr. Kilner's 'human atmosphere' and the Kirlian photographic energy manifestations.

I think that we have clearly seen the energy connections between them. Whether it was natural philosophy and its practical applications, or subjective perception, or objective visualization by a mechanical device; all have, each in their own way, confirmed the same reality. Scientists make a big ado about how they bow and worship before the altar of reason. Well, then, reason would have to tell them that these insights gained by every conceivable mode of cognition available to the human being must have a factual basis. If we should opt to continue to deny or squelch these crucial findings, we cater to the irrational.

The brutal, gore-splattered page of history that is the twentieth century to this point seriously questions the very *sanity* of "homo normalis". The winds of chaos have blown us in the direction of self-destruction long enough. There is an urgent need to wrest the rudder of our endangered vessel from the ice cold grips of our mechanistic helmsmen. When we have done so, we will no longer be content to ease into a calm bay for the moment while the gale yet rages on. No, we'll come to realize, finally, that only a strenuous, courageous effort to tack wind against the storm will bring us to a safe haven. Once the passage has begun many will threaten to mutiny and still more will launch deathboats and ride the prevailing currents rather than seek change. Perhaps, though, enough people will come to know about their origin in the cosmic orgone energy ocean. Then they will learn that they don't tick, as the machine-oriented would like to think, but rather that they rhythmically pulsate and therefore should begin to move in harmony with nature inside and outside themselves.

Former astronaut Edgar D. Mitchell states emphatically, "Only when man sees his fundamental unity with the processes of nature and the functioning of the universe -as I so vividly saw it from the Apollo spacecraft- will the old ways of thinking and behaving disappear." [13] He goes on to warn: "If we continue without change and growth in our basic thinking and behaving, we will, despite spectacular technological feats, eventually end the evolutionary experiment known as man. Our planetary situation becomes more desperate daily." [14] You be the judge as to whether this is the voice of just another 'prophet of gloom and doom'.

It can be stated, without fear of exaggeration, that a reversal of the present disastrous trends hinges on the acknowledgment and subsequent practical use of orgone energy. Acupuncture, Dr. Kilner's insights and Kirlian photography can be likened to a single block in the enormous structure of the great pyramid of Cheops as regards their contribution to the knowledge of life energy. Paracelsus, Mesmer, von Reichenbach and others who "theorized" and "postulated" forces variously termed 'vital force', 'universal force', 'odic force', etc. might together have provided enough material to lay yet another block. The entire foundation and much of the superstructure, though, was built single-handedly and with little or no reliance on the work of the men just mentioned by the prodigious efforts of Wilhelm Reich. This scientist, who was, in my opinion, the most profound ever to have walked the Earth must be recognized as the discoverer of the primordial, cosmic energy which he called *orgone energy*. It was he who, true to the scientific method, demonstrated the energy visually, thermically, mechanically and by means of the electroscope. Orgone energy has absolutely nothing to do with philosophy. It is neither a speculation nor a theory.

One can't run a motor on "Ch'i", Prana or entelechy. You can run a motor with orgone energy! The implications and applications of orgone energy, in all areas of life, are too vast to be enumerated here. This fact will become crystal clear in the following chapters.

Mankind has been catapulted within the past fifty years, in the realm of the mechanics of living, from the industrial to the cybernetic age. Yet, despite this technological advance, mankind has failed to come to terms with itself. If we are ever to reach the age of full human potential, the cosmic age, then it is about time that we take the Greek dictum: 'Know Thyself' seriously. There are those who argue that we already know human nature all too well. To try to change ourselves is futile! The die has been cast. As it was in the beginning, so shall it be in the end. Such opinions, if we reflect on past history, are not merely pessimistic but if they are true then the chances of the survival of humanity dwindle to nil. Dr. Jean Houston observes: "Man unfolding, man emerging, man gaining access to the great latent powers of his body-mind-psyche: this must be the new image of man if we are to survive our time. Not man as something that has to be surpassed, not man the botched experiment, not man so hopeless that only psycho-pharmacology, behavioral conditioning, or genetic engineering can give him a structure capable of redeeming his baser nature, but man who already has the potentials to become fully human... This is the paradigm of the possible humanity, the image that I believe can energize man to accomplish his transformation and so become the deserving trustee of his own evolution on this earth." [15]

R E F E R E N C E S

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 - [12] Ibid, p. 185

 - [13] Edgar D. Mitchell, PSYCHIC EXPLORATION
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*** CHAPTER 2 ***

A FUNCTIONAL APPROACH TO THE WORLD

"Whoever looks back on the development of human society a thousand or five thousand years from now will very likely find the crucial turning point of human orientation in our own time, the twentieth century... What has dictated the life forms of the human animal today and in the past six millennia will be a matter of historical criticism. For if it is correct that the mechanistic and the mystical life philosophies have each in their own way, attacked the living element in the human animal, if it is correct furthermore that mechanistics and mysticism derived their methods of thinking from the negation of life, it must be equally correct that their collapse will be brought about by the discovery of the life process." - W. Reich

It is beyond the scope of this book to offer the reader a complete outline of orgonomy. Wilhelm Reich's re-search of nature was so many-faceted that any effort to provide a concise summary is futile. The investigations of and the experiments with biological orgone energy led him from psychiatry to medicine to biology. Then the discovery of atmospheric orgone energy brought him into the fields of physics, meteorology and astrophysics. Each discipline that he touched became revitalized.

Reich was a dedicated scientist and a prolific writer. He wrote, besides the dozen or more books that are currently being made available to the general public, countless articles and technical reports. Even today, more than twenty years after his tragic death, thousands of pages of scientific notes, which were originally written in German, remain untranslated. Let me emphasize, however, that the fundamental principles of orgonomy, with which I personally worked in Project Ocular Cloud-bust, are readily available in the texts that are at present being published. What I have provided in this chapter is an introduction to those aspects of orgonomy that relate most specifically and directly to the topic that will be discussed in the following chapters. I have, for instance, not included a description of *bion* research or orgone therapy. These are integral parts of the science but a comprehension of them is not needed for the reader to be able to understand the project.

The functions, principles and facts of the primordial orgone energy are quoted and taken directly from the original source material, i.e., Reich's printed volumes. I have provided numerous illustrations which I hope will make some of the written material more graphic and tangible. I guess it could be said that what some readers will be introduced to is an alternate reality! To some it may even seem incredible. Let us recall to mind, however, the historical case of the explorer of a new reality, Columbus and his crew of parochial men. These sailors all had faith in angels, heaven and hell and were indoctrinated to believe that the Earth was flat. They surely thought at times during their long, arduous journey that the so-called 'new world' was merely a product of their captain's overwrought imagination. Their voyage was revolutionary and so is ours. For them the Earth changed from a flat plane into a round sphere, and for us, "It must be decided whether nature is an 'empty

space with a few widely scattered specks' or whether it is a space full of cosmic, primordial energy, a continuum that functions dynamically and obeys a generally valid law of nature." [1]

I must caution the reader that I am very hesitant to, and indeed I will not, offer this synopsis of the functional dynamics and principles of orgone energy by means of the 'normal' neat, narrow categories and definitions so commonly invoked by orthodox science. Reich, during his re-search of nature, became increasingly aware that all things, whether plant or animal, organic or inorganic, were interconnected. He realized that the discovery of the primordial life energy meant that we were literally members of a UNI-verse.

If the interest and curiosity of my audience becomes sufficiently aroused, then they will certainly want to and will easily be able to avail themselves of Reich's original writings. My personal responsibility is aptly expressed in the words of the venerable Norwegian orgonomist, Ola Raknes. He declared, "It has become the task of those who know and understood his (Reich's) discovery to take up the study of the orgone energy, its properties, laws, its use in different spheres, and how its discovery may contribute to our understanding of the world we live in." [2]

THE ORGONOMIC POTENTIAL

Electrical and thermal energies are subject to the law of the dissipation of energy which is known to scientists as the second law of thermodynamics. An operative simple cell battery has a high electrical charge. When one connects its positive and negative plates to the respective plates of a discharged battery, energy is transferred to the dead battery. Eventually the amount of charge becomes equal in both of the batteries. This process is the same in the case of *hot* and *cold* rods. What is clearly evident in both of these instances is the fact that energy at a high level has flowed down to a lower level. Also, and significantly, some heat energy has been lost to the surroundings. Energy is directly radiated by the heated rods while heat is produced by friction in the conduction wires of the batteries. We observe, therefore, that in every energy transformation that is governed by the *mechanical potential*, some of the generated energy is always changed into 'heat energy' and is not available for any further transformations. This is the *law of entropy*, i.e., the second law of thermodynamics.

Let us follow this law to its ultimate conclusion. The long range implications of it are indeed ominous. It means no less than that the radiant energy of stars, the mechanical energy of planetary motions, the chemical energy of foods, etc. are all being steadily changed into 'heat energy'. Therefore, some time in the distant future there will be a time when there is no energy but 'heat energy', 'heat energy' that is very evenly distributed so that no part of the universe is warmer than another. In other words, the universe will sooner or later succumb to a "heat-death".

The eminent physicist, A. Eddington, states, in his book "The Running Down of the Universe", that "Entropy continually increases. We can, by isolating parts of the world and postulating rather idealized conditions

in our problems, arrest the increase, but we cannot turn it into a decrease... The law of entropy always increases.. This Second Law of Thermodynamics holds, I think, the supreme position among the laws of nature... If your theory is found to be against the Second Law of Thermodynamics I can give you no hope; there is nothing for it but to collapse in deepest humiliation." Further on in his book, he nevertheless ponders, "Is there no counter-process by which radiation collects in space, evolves into electrons and protons, and begins star-building all over again?"

Orgonomy answers: "We must comprehend the living organism as an organized part of the cosmic orgone ocean, which possesses special qualities called "living"; we fail to understand this organism *bio-energetically* if we adhere to the mechanical energy potential. This mechanical potential, be it thermal, electrical or mechanical motion, is always directed from the higher to the lower, or from the stronger to the weaker system, and never vice versa. On the other hand, the living organism would not only not be able to keep up a much higher energy level as compared with the environment; it would also lose its heat, its motility, its energy into the surrounding, energetically lower environment in a very short time. And the question would remain unanswered how it came about that such an organism could come into being in the first place. We cannot get around the fact that there is in nature another energy function, our so-called *reversed, ergonomic potential*; orgone energy flows from the weaker or lower to the stronger or higher system."

The ergonomic potential does not contradict the old mechanical potential. In fact it explains how it is possible that a higher energy level can exist at all. It is true that, in accepting this function, the "second law of thermodynamics", the absolute formulation of the law of entropy, becomes invalid. We know that many physicists feel uncomfortable with this law anyhow. And we have had to abandon many other such beliefs of absolute nature, e.g., the conservation of matter or the changeability of chemical elements." [3]

"Can the basic 'law of the conservation of energy' be reconciled with the existence of an ergonomic potential? It probably can. A first tentative suggestion to this effect is offered in the following assumption: While some orgone units are forming in the orgone ocean by concentration, others terminate their single existence by energy dissipation into the orgone ocean. Thus energy lost by discharge or "deaths" of a number of orgone units would be picked up again to be concentrated in other units. The "running-down of the universe" toward random functions would in this way be counteracted by new births of high energy potentials due to reversed concentration (= 'creation'). The ergonomic (reversed) potential would make entropy unnecessary." [4]

The *basic functioning principle* (BFP) of orgone energy, the ergonomic potential, cannot be overemphasized. Just as one remains illiterate without a knowledge of the alphabet; so one fails to read nature without an understanding of this basic function.

Orgone energy is, without qualifications, a ubiquitous, all-pervasive continuum. As such, there exist certain fundamental interactions between orgone energy and matter. Thus it can be stated that:

- 1.) Organic material of every kind attracts orgone energy and absorbs it.
- 2.) Metallic material, especially iron, attracts orgone energy but then quickly repels it again.
- 3.) The attraction between water (H_2O) and orgone energy is greater than between other elements and orgone energy. Water not only attracts orgone energy speedily but also holds it.

"Reich repeatedly stressed how water has a "hunger" for orgone, i.e., water seeks orgone. We are now informed by the bio-meteorological scientists, a.) water has an unusual and very sensitive structure (especially sensitive to electromagnetic fields) and (b.) that it is probably through water in organisms of all sizes up to man that they are sensitive to extremely delicate cosmic influences. Thus, "space and cosmic forces affect us through the intermediary of water", claims bio-meteorologist Gauquelin. And its structure is especially unstable and easily influenced at a temperature between 81 degrees (F) and 108 degrees (F), that is, the range of bodily temperatures. This may confirm the great stress Reich placed on water as an attractor for biological energies." [5]

The organism constantly attracts and absorbs energy from the orgone energy ocean. "*Orgone energy is present "everywhere", and it forms an uninterrupted continuum.* This continuum varies in different places with regard to its "densemess" or "concentration". We are still using these mechanical terms borrowed from the physics of matter although orgone energy is not of a material nature. Therefore we must be prepared to replace these terms with others that are more fitting to describe the functions of orgone energy. Orgone penetrates all space, including space occupied by solid matter." [6]

If we were to substitute air for orgone energy and lungs for the total organism, we would soon enough become aware of the fact that absorption or rather inhalation cannot go on indefinitely. There comes a point when the lungs are full and we must exhale. Breathing is accomplished by a rhythmic alternation between inhalation and exhalation. There is a *charge phase* and a *discharge phase*. In the living body, respiration, heart beat and blood circulation, digestion, etc., etc., function in accordance with the *orgone energy metabolism* of charge and discharge.

"The ergonomic concept of energy functions in the living organism as it emerged from observation and deduction is the following:

- 1.) The living organism, as the stronger energy system, draws energy from the lower energy level: *ergonomic potential*.
This is valid not only for the organism as a whole, but for the nucleus in each living cell, which draws energy from the surrounding energetically lower protoplasm.
- 2.) Each type or species of organism possesses its specific energy level; it has a special "ergonomic capacity". Otherwise, the living organism would not stop accumulating energy and would burst or grow indefinitely.
- 3.) All surplus of energy is discharged according to the mechanical potential in mechanical movement, orgiastic convulsions, heat, etc.

4.) There exists, accordingly, an orgone energy metabolism, a continuous exchange of energy in the cohesive unit called organism. To summarize its main functions: maintenance of a certain capacity level by means of *charging* from the surrounding orgone energy ocean and from foodstuffs, and by energy *discharge* into the surrounding energy ocean. The lower the capacity level, the weaker the capacity for charge, as in the shrinking biopathy (= cancer). In the dying organism, the capacity to charge and to maintain the level of functioning is slowly lost. The capacity level sinks until it reaches the level of the surrounding orgone ocean. In the putrefaction process after death, the opposite of what went on during original growth occurs. The material tissues lose their cohesion due to loss of orgone energy; they fall apart; finally the unit disintegrates." [7]

LIVING ORGONOTIC SYSTEMS

The philosopher Descartes wrote, "The universe is a machine in which everything happens by figure and motion." Therefore the human being, who is a part of this universe, can be explained in terms of mechanics and chemistry. This particular Weltanschauung still holds sway over the mind of contemporary man; it was and is the mechanistic viewpoint. The physiology of the organism is thus described as follows:

The lungs are the bellows that keep the fire of metabolism ablaze. The inspiration stroke pulls in the chemical element, oxygen, which then percolates into the blood stream via the capillaries. The expiration stroke extracts the by-product of the body's internal combustion process, (CO₂), and propels it out into the atmosphere. The heart is the pump that circulates the blood. The contraction phase of this muscle-pump pushes the blood into the tubular conduits called arteries. The expansion phase converts the heart into a suction pump which sucks the blood into the conduits called veins. The former conduits supply nutrients; the latter carry away waste material. The brain is the control center. It is the complex computer that regulates and stimulates every process whether that be the pulse rate or the secretion of a single hormone. The nerves of the spinal cord serve as the transmission wires for the commands from the brain.

Granted, this example is simplistic but the basic ingredients of mechanism are present. Those ingredients are:

- a.) The reduction of all phenomena to a machine model.
- b.) The dissection of the organism into separate, isolated parts which somehow interact.
- c.) The notion that the whole is the sum of its physical and chemical parts.
- d.) The need to set up a hierarchy of the organs, that is, the brain is the director of organic functions.

The living organism, and no less the universe, can never be understood within such a mechanistic framework. The physiologist, Claude Bernard, knew that these concepts inevitably lead to a dead end. However, caught in the trap of mechanistic orientation, he morosely declared, "The truth is that the nature or very essence of the simplest mineral phenomenon is

as completely unknown to chemists and physicists today as is the essence of intellectual phenomena or any other vital phenomenon to physiologists. That, moreover, is easy to comprehend. Knowledge of the inmost nature or the absolute, in the slightest phenomenon would demand knowledge of the whole universe; for every phenomenon of the universe is evidently a sort of radiation from that universe to whose harmony it contributes. In living bodies absolute truth would be still harder to attain; because, besides implying knowledge of the universe outside the living body, it would also demand complete knowledge of the organism which is a little world (= microcosm) in the great universe (= macrocosm). Our feelings lead us first to believe that absolute truth must lie within our realm; but study takes from us, little by little, the chimerical conceits." [8]

The picture that Bernard painted over one hundred years ago is correct in every detail except for the despondent image of the ever elusive truth. It is an image that is seen by anyone who has been forced to look through the distorted lenses of mechanistic science. Our vision will remain impaired and the nature of nature will continue to elude us until we come to recognize that, "Mechanistic science is correct in the realm of inorganic nature and technological civilization. It leaves us in the lurch if we are to comprehend the perceiving live organism and the act of natural research in the realm of biopsychic processes. Orgone research has left no doubt that mechanistic natural research has failed not only in the biopsychic realm but also in all other realms of nature where a common denominator of natural processes had to be found. For, as we said, nature is functional in all areas, and not only in those of organic matter. Of course there are mechanical laws, but the mechanics of nature are in themselves a special variant of functional processes of nature." [9]

The science of orgonomy has been established on a solid foundation. This foundation is the demonstrable fact that nature is indeed functional and not mechanical. What exactly does *functional* mean? I think that a comparison between the mechanical and functional approach to the living organism will provide us with a basic orientation. Keep in mind the 'living machine model' which was described earlier while you read Reich's analysis of that organism in miniature, the cell.

"In the organism, every cell, with its nucleus, its plasm and its orgone energy field, forms a complete *orgonotic system*. Since every cell contains orgone energy, its structure must be connected to its orgone charge. It is not difficult to guess what this connection is: The nucleus is the most important component of the cell and contains the most energy. Cell plasm without a nucleus is not capable of life; but cells can live very well with only minimal cell plasm, as do sperm cells, for example. The nucleus must therefore be regarded as the "vegetative center" of the individual cell, just as the autonomous nervous system forms the "biological core" or the "vegetative center" of the total organism. The cell nucleus, and the autonomous nervous system, represent the most concentrated and substantial apparatus in their respective orgonotic systems, the cell and the total organism.

The nucleus is *energetically stronger* than the cell plasm. All essential biological processes and functions begin in the nucleus and then spread to the plasm. For instance, cell division begins with the division of the nucleus, which is followed by the division of the plasm.

Amoebae, in the process of division, often live for several hours with a divided nucleus, i.e., with two nuclei before the body divides into two amoebae.

Great credit must be given to the German biologist, R. Hertwig, for having been the first scientist to investigate and formulate the relation of the nucleus to the plasm in his famous "nucleus-plasm relation". It had been known for some time that most cells are a certain size when they divide, varying only within certain limits. Following division, the daughter cell grows to the same size as the parent cell just before it divides. The relation of the nucleus to the plasm immediately after division is regarded in classical biology as the normal nucleus-plasm relation. According to Popoff, a young cell just produced by division grows at a fixed rate, the nucleus growing less rapidly than the plasm. Then, suddenly, immediately before division, the growth of the nucleus accelerates rapidly until, like the plasm, it has nearly doubled its original size. The retardation in the speed of growth of the nucleus after division of a cell results in a shift in the nucleus-plasm relation in favor of the plasm. There is more plasm than nucleus. This disproportion creates a tension in the cell that causes the nucleus to grow and overcome the gap created by the growth of the plasm, thus restoring the normal nucleus-plasm relation. Hertwig assumed that this tension in the cell not only initiates the growth of the nucleus but also stimulates the cell division. On the basis of our orgasm formula (= life formula) we can say further that *immediately preceding division, the cell is under more mechanical tension and is more charged energetically than immediately after division, when it is smaller*. Before division, the nucleus-plasm relation shifts in favor of the more highly charged nucleus because the nucleus is stronger organotically than the plasm. Because the relation of the mass of the nucleus to the mass of the plasm remains the same, organotic nucleus-plasm relation must shift considerably in favor of the nucleus. The relatively high tension and charge of the nucleus at the peak of its size now induces division. As we know, division itself follows the tension-charge formula and leads to the discharge by way of division, and relaxation in the form of daughter cells.

Can Hertwig's nucleus-plasm relation be expressed in terms of orgone biophysics?

It is possible. The nucleus is the strongest, i.e., the most orgone-rich system in the cell. The cell plasm is organotically the weaker system. This means that there is a difference between the orgone charge of the nucleus and that of the plasm, a fact that can be confirmed microscopically. The nucleus shows all the organotic characteristics more intensely than does the plasm. It radiates more strongly than the plasm and has an intense blue color. Surrounding the cell is an *orgone energy field* which may be designated as the orgone-weakest part of the *total organotic system* of the cell. It is a basic law of orgone physics (in contrast to electrophysics and mechanics) that *the stronger orgone energy system draws off energy from the weaker system and attracts it*. This finding is crucial; it illuminates at once important questions that have been hitherto unsolved:

- 1.) *What holds the cell together?*
- 2.) *How is it possible that the nucleus-plasm relation always remains approximately the same (except during the period of division), i.e., that the nucleus is always organotically stronger than the plasm?*

Every organism continually radiates orgone and thus, in time, should lose its orgone charge completely.

The answer is that the nucleus is functionally the energy center and the energy source of the cell, its "autonomic nervous system", so to speak. The cell plasm is the storehouse for foodstuffs and the executory organ of the impulse from the nucleus, just as the digestive and locomotor organs of the metazoan are the executory organs of the autonomic system. *The nucleus constantly draws orgone energy from the cell plasm which has assimilated it by way of nutritional absorption and respiration.* In this way, the nucleus maintains its orgone energy preponderance in relation to the plasm. The nucleus-plasm relation has to be determined not only in terms of material, i.e., according to mass, but also, and more importantly, in terms of energy, according to the difference in orgone charge. It follows that during the phase *between two divisions* (two orgonotic convulsions) *the absorption of orgone energy into the cell exceeds by far the discharge of orgone energy into the surroundings.* This (and not chemical-material processes) explains the growth of the total cell up to the time of its division. The preponderance of the energy flow from the outside into the nucleus leads inevitably to an *excess of orgone energy* and with it to the reversal of the energy flow from the nucleus toward the outside. *The discharge of the excess of biological energy occurs in the entire living realm - in plants as well as animals, in metazoa as well as protozoa - by convulsion of the total plasma, in other words, through orgasm.* Thus it is not a matter of speculation but an orgone-physical fact when we say that the orgasm, either in a single cell or in a mass of cells (the organism), is a basic "cell function", the "regulator of the energy household of the organism". The four-beat TENSION > CHARGE > DISCHARGE > RELAXATION characterizes the sexual orgasm of the metazoan as well as individual cell division. The "orgasm formula" must therefore be regarded as identical with the "life formula" and cell division as an orgiastic process in the strict sense of *equalization of excessive biological energy.* *The orgasm discharges the surplus of orgone energy that periodically accumulates in the cell nuclei.*" [10]

The living organism is not a machine but is instead fundamentally an orgone energy (= orgonotic) system. All orgonotic systems are composed of:

- 1.) an orgone energy nucleus or core
- 2.) a plasmatic or material periphery
- 3.) an orgone energy field

Orgonomy, which is fully conversant with and does by no means ignore the chemical and physical aspects of the various entities, is nevertheless primarily interested in the orgone energy processes which underlie every orgonotic system whether that may be a cell, an organ, a tree, a human being, an atom, the planet Earth or the galaxy. The facts about orgone energy that have so far been discussed can be summarized as follows:

- a.) Orgone energy is present everywhere and penetrates everything. It forms an uninterrupted, mass-free energy continuum, an orgone energy ocean, so to speak.
- b.) *Organic potential*, i.e., energy flow from a low or weak level to a high or strong level, is a basic functioning principle (BFP) of the primordial orgone energy.

- c.) The organized entities of orgone energy are 'lawfully' functioning *orgonotic systems* which grow, reach maturity and maintain an energy equilibrium through the orgone energy metabolism of *charge* and *discharge*.

PULSATION

Pulsation is, like the ergonomic potential, a basic functioning principle (BFP) of orgone energy. When we think of pulsation in reference to the human being (or any other metazoan) our attention is immediately focused on the heart beat. Here the energetic, metabolic process of charge and discharge is unequivocally demonstrated in the rhythmic *expansion* and *contraction* of the heart. The expansion and contraction of the lungs in the respiration process is yet another graphic example. Although less evident, every single organ pulsates.

"Plasmatic current does not flow continuously but in rhythmic thrusts. Hence we speak of pulsation. The pulsation can be clearly observed in the blood circulation of all metazoa. The pulsatory current of body fluids is the work of organic orgone, a direct expression of its form of movement. From the pulsation of body fluids we must reason, *a posteriori*, that there is a pulsation of orgone energy. This conclusion is confirmed by observing certain protozoa, in which pulsatory waves of excitation pass through the body and set the protoplasm in motion..."

We must distinguish between two kinds of pulsatory movements in living matter: the *pulsatory movement of orgone energy* in the organism, and its effect, the *pulsatory mechanical movement of body fluids*. We differentiate here between functional bio-energetic pulsation and mechanical pulsation. *The mechanical pulsation results from the functional pulsation of orgone energy*, its spinning forward in alternating expansion and contraction. Since the movement of fluids is mechanical, it can only be the expression and consequence of the pulsatory function of orgone energy. Among the flowing amoebae, the bio-energetic pulsation coincides completely with the organic flow of fluids." [11]

A pulsation of primordial orgone energy within the mass-free energy field of the atmosphere is yet another observable fact.

"My work hypothesis postulated a basic functional identity between *pulsation in the organism* and *pulsation in nonliving nature*. The pulsation in the living organism could easily be observed, but it was difficult to conceive of a similar pulsation in nonliving nature. It is true, I had observed the wavy west-east motion of the atmospheric OR energy for several years by means of the telescope. It was also certain that not only waves but pulses as well were observable through the telescope; rhythmically recurring push-like changes in the course of the waves... The idea of "pulses in the atmosphere", however, stuck in my mind; yet I felt helpless in my attempt to get hold of the function in a practical, objective manner. Careful observation of the motion of the atmospheric OR energy in the sky during the daytime distinctly gave the impression of *discontinuous, rhythmically recurrent functions*.

The OR pulse rate was not in accord with the mechanical pulse rate of the heartbeat.

A pulsation in the living organism other than the beat of the heart was, to my knowledge unknown; and there was no way to coordinate this pulse with any known biophysical functions. The rate varied with different persons... A series of tests gave the general impression that *children had a faster rate than older people; emotionally sluggish individuals a slower rate than very alive ones.* The pulse rate also changed in one and the same person from day to day in accordance with changes in mood, alertness or fatigue, etc. Therefore the conclusion was warranted that we were dealing here with the *orgonotic functions of the biosystem expressed in a peculiar pulsation which was not due to the mechanical heartbeat.*

There was the same reaction in the air and in the ground as in the living organism. I had to assume that I was dealing with the basic function of orgonotic pulsation in the organism and in the surrounding OR energy ocean...

It was in agreement with many other ergonomic functions well known to me. I did not understand, however, where this pulsation took place, or expressed differently, what pulsated. This was early in 1944, when I had not yet arrived at the conclusion that pulsation most likely was a basic characteristic of the primordial cosmic OR energy, and that no pulsating substance or material substratum for pulsation is required to make it comprehensible. Later, it was shown that it was *not the substance* of the ground or the air which pulsated, but the free OR energy in the ground and atmosphere.

Briefly: There existed a pulsatory function, heretofore unknown, in the living organism, in the atmosphere and in the ground, clearly demonstrable at the oscillograph." [12]

Whereas ergonomics has its finger directly on the pulse of life, "Mechanism does not understand the principle of organization. It does not know the qualities of orgone energy and hence must necessarily introduce a metaphysical principle, if it does not wish to remain mired in pure description. For mechanism there is a hierarchy of organs in the organism. As the "highest" developmental product, the brain is, together with the nerve apparatus of the spinal cord, the "director" of the whole organism. Mechanism assumes a center from which all impulses are sent out which move the organs. Every muscle has, connected by its respective nerves, its own center in the brain or in the thalamus. *From where the brain itself receives its assignments, remains a riddle.*" [13]

The single cell and the multi-cellular organs, the simple protozoan and the complex metazoan all share the common denominator, pulsation. "The organism as a whole forms a *natural cooperative of equally important organs of different function...* Multiplicity and differentiation combine into a unity. *The function itself governs the cooperation.* Every organ lives for itself, functioning in its own realm on the basis of its own functions and impulses. The hand grasps and the gland secretes. *The individual organs are self-active living creatures, equipped with their own sensation and function.* That has been unequivocally confirmed by the experiments on isolated hearts and muscles. Sensation is in no way tied to sensory nerve endings. All plasmatic matter perceives, with or without sensory nerves. The amoeba has no sensory or motor nerves, and still it perceives." [14]

THE RELATIONSHIP BETWEEN SOMA AND PSYCHE

"Let us observe flowing amoebae, we see currents in the protoplasm which when pleasurabley stimulated are directed toward the periphery, and which retreat to the center when unpleasurabley stimulated. In other words, the amoebae stretch out toward pleasurable stimulation and recoil when unpleasurabley stimulated. Here, with one stroke of a simple observation and a sound theory, a solid bridge is built from the multi-cellular organism to the amoeba. the amoeba behaves exactly as we could have predicted the emotional behavior of the human animal on the basis of our clinical observations. What we discern psychiatrically in man, we observe directly in the amoeba: the flow of protoplasm that has "emotional" significance. Our theory tells us: *What we subjectively perceive and what we call "organ sensations" are objective movements of protoplasm. Organ sensations and plasmatic currents are functionally identical.* With regard to the functions of pleasurable expansion and anxious contraction of protoplasm, man and amoeba are functionally identical." [15]

Traditional medicine is aware of the fact that a relationship between the body and the psyche does exist. For instance, the stimulus for a migraine headache is, in general, acknowledged to be psychic stress. The ailment is dubbed "psychosomatic". The physical and psychological surely 'interact' but the how remains a mystery. There is a missing link between the two. They are, within the mechanistic framework, regarded as being mutually independent domains. Orgonomy, on the other hand, "Not only sees an interrelation of functions but seeks a common, third, and deeper functional relation." [16]

"The psyche is determined by quality, the soma by quantity. In the psyche, the determining factor is the kind of an idea or wish; in the soma, however, it is the amount of energy at work. Insofar, psyche and soma were different. But the study of the orgasm showed that the quality of a psychic attitude depended on the amount of the underlying somatic excitation. The idea of sexual intercourse and its pleasure is intense, colorful and vivid in a state of intense somatic excitation. After gratification, however, the idea can be reproduced only with difficulty. I had in mind the picture of an ocean wave which rising and falling influences the movement of a piece of wood floating on its surface. It was no more than a vague idea that psychic life emerges and submerges from the underlying bio-physiological process, depending on what stage of this process happens to be current... What was clear was only that the biological energy (orgone energy) dominates the psychic as well as the somatic. *There is a functional unity.*" [17]

"My concepts of the unity of psychic and somatic functioning had clarified themselves in the following direction: The fundamental biological function of pulsation, i.e., of expansion and contraction can be demonstrated in the psychic as well as in the somatic sphere. There were two series of antithetical phenomena, the elements of which corresponded to different depths of biological functioning. Impulses and sensations are not created by the nerves, but only transmitted by them. They are biological manifestations of the organism as a whole. They are present in the organism long before the development of an organized nervous tissue. Protozoa show the same fundamental actions and impulses as metazoa, though they possess as yet no organized nervous system.

Kraus and Zondek succeeded in demonstrating the important fact that chemical substances can not only stimulate or depress the functions of the autonomic nervous system, but also *can take their place*.

As has been stated, all biological impulses and sensations can be reduced to the fundamental functions of expansion (elongation, dilatation) and contraction (constriction). *What is the relationship between these two fundamental functions and the autonomic nervous system?*

Upon detailed examination of the highly complicated vegetative innervation of the organs, one finds the *parasympathetic* operative whenever there is *expansion, elongation, hyperemia, turgor and pleasure*. Conversely, the *sympathetic* is found whenever the organism *contracts*, withdraws blood from the periphery, where it shows *pallor, anxiety or pain*. If we go one step further, we see that the parasympathetic represents the direction of expansion, "out of the self - toward the world", pleasure and joy; the sympathetic, on the other hand, represents the direction of contraction, "away from the world - back into the self", sorrow and pain. The life process takes place in a constant alternation of expansion and contraction.

Further consideration shows the *identity* on the one hand of parasympathetic function and *sexual* function; on the other hand of sympathetic function and the function of *unpleasure* or *anxiety*. We may see that the blood vessels during pleasure dilate at the periphery, the skin reddens, pleasure is felt from mild pleasurable sensations to sexual ecstasy; while in a state of anxiety, pallor, contraction of the blood vessels and unpleasure go hand in hand. In pleasure, "the heart expands" (parasympathetic dilatation), the pulse is full and quiet. In anxiety, the heart contracts and beats rapidly and forcibly. In the first case, it drives blood through wide vessels, its work is easy; in the second case, it has to drive blood through constricted blood vessels, and its work is hard. In the first case, the blood is predominantly distributed in the peripheral vessels; in the second case, the constricted blood vessels dam it up in the direction of the heart. This makes it immediately evident why anxiety is accompanied by the sensation of oppression, and why cardiac oppression leads to anxiety. -

On the highest, i.e., psychic level, biological expansion is experienced as pleasure, contraction as unpleasure. On the instinctual level, expansion and contraction function as sexual excitation and anxiety, respectively. On the deeper physiological level, expansion and contraction correspond to the function of the parasympathetic and sympathetic, respectively. According to the discoveries of Kraus and Zondek, the parasympathetic function can be replaced by the potassium ion group, the sympathetic by the calcium ion group. We thus get a picture of a *unitary functioning in the organism, from the highest psychic sensations down to the deepest biological reactions*.

On the basis of this formula of unitary-antithetical psychosomatic functioning, some seeming contradictions of autonomic innervation became clear. Previously, the autonomic innervation of the organism had seemed to lack order. Muscles are made to contract one time by the parasympathetic, the other time by the sympathetic. Glandular function is one time stimulated by the parasympathetic (genital glands), another time by the sympathetic (sweat glands).

The attempt to bring order into what seemed a chaos was successful when I began to examine the vegetative innervation of each in terms of the biological functions of expansion and contraction of the total organism. In other words, I asked myself how this or that organ would normally function in pleasure and anxiety, respectively; and what kind of autonomic innervation would be found in each case. Thus, the seemingly contradictory innervation, when examined *in terms of the function of the total organism*, revealed itself as entirely orderly and understandable.

This can be most convincingly demonstrated by the antagonistic innervation of the "center", the heart, and the "periphery", the blood vessels and muscles. The parasympathetic stimulates the blood flow in the periphery by dilating the blood vessels, but inhibits the heart action; conversely, the sympathetic inhibits the blood flow in the periphery by contracting the vessels, but stimulates the heart action. In terms of the total organism, this antagonistic innervation is understandable, for in anxiety the heart has to overcome the peripheral constriction, whereas in pleasure it can work peacefully and slowly. There is a *functional antithesis between center and periphery*.

The fact that the same nerve (the sympathetic) inhibits the salivary glands and simultaneously stimulates the outpouring of adrenalin, and thus produces anxiety, is meaningful in terms of the unitary sympathetic anxiety function. Similarly, we see in the case of the urinary bladder that the sympathetic stimulates the muscle that prevents micturition; the action of the parasympathetic is the reverse. Similarly, in terms of the whole, it is meaningful, that, in a state of pleasure, the pupils, as a result of parasympathetic action, are contracted, acting like the diaphragm of a camera, and thus increase acuity of vision; conversely, in a state of anxious paralysis, the acuity of vision is diminished through the dilatation of the pupils.

The reduction of autonomic innervation to the basic biological functions of expansion and contraction of the total organism was, of course, an important step forward and at the same time, a good test of my biological hypothesis. The parasympathetic, then, always stimulates the organs - regardless of whether it is in the sense of tension or relaxation - when the total organism is in a state of pleasurable expansion. Conversely, the sympathetic stimulates organs in a biologically meaningful way when the total organism is in a state of anxious contraction.

The life process, in especial respiration, can thus be understood as a constant state of pulsation in which the organism continues to alternate, pendulum-like, between parasympathetic expansion (expiration), and sympathetic contraction (inspiration). In formulating these theoretical considerations, I had in mind the rhythmic behavior of an amoeba, a medusa or a heart." [18]

We have seen how orgone biophysics has been able to supply the missing link in the body-psyche relationship. This was achieved once the connection between biological functions and emotion was discerned. This accomplishment can be summarized as follows:

- A) Pulsation, i.e., a constant, rhythmic alternation between expansion and contraction is a (BFP) of the primordial orgone energy.

- B) This basic functioning principle of orgone (= life) energy manifests itself in the living orgonotic system as biological pulsation.
- C) The autonomic nervous system is the biological nucleus, i.e., the bio-energetic core of the organism.
- D) The stimulus for the expansion or contraction of the organism as a whole originates in the autonomic nervous system.
- E) There exists a functional antithesis between center and periphery with respect to the direction of excitation. Biological contraction is the streaming of plasmatic current toward the center. Biological expansion is the streaming of plasmatic current toward the periphery.
- F) Biological contraction is functionally identical to the sensation (= emotion) of unpleasure or anxiety.
Biological expansion is functionally identical to the sensation (= emotion) of pleasure. Thus
- G) There is a functional identity between the physical process, viz., biological expansion or contraction, and the psychic perception, viz., pleasure or anxiety. Soma and psyche do not mysteriously interact; there is rather a direct functional relationship.
- H) Bio-energetic excitation (= OR energy pulsation) is the common functioning principle (CFP) that integrates soma and psyche.

"The cosmic orgone energy functions in the living organism as specific biological energy. As such, it governs the total organism and expresses itself in the emotions as well as in the purely biophysical organ movements. Thus psychiatry had found roots in objective natural-scientific processes. This statement calls for some amplification:

Up to the discovery of the orgone, psychiatry always had to turn to inorganic physics in its attempts to give an *objective* and *quantitative* basis to its physiological contentions. Neither mechanical brain lesions nor the chemico-physical processes in the organism, nor the obsolete concepts of the cerebral localization of sensations and ideas ever succeeded in satisfactorily explaining emotional processes. In contradistinction, orgone biophysics, from the very beginning, was concerned with the central problem of all psychiatry, the *emotions*. Literally, "emotion" means "moving out", "protruding". It is not only permissible but necessary to take the word "emotion" literally in speaking of sensations and movements. Microscopic observation of amoebae subjected to slight electrical stimuli renders the meaning of the word "emotion" in an unmistakable manner. *Basically, emotion is an expressive plasmatic motion.* Pleasurable stimuli cause an "emotion" of the protoplasm from the center towards the periphery. Conversely, unpleasurable stimuli cause an "emotion" - or rather, "remotion" - from the periphery to the center of the organism. These two basic directions of biophysical plasma current correspond to the two basic affects of the psychic apparatus, pleasure and anxiety. As the experiments at the oscillograph have shown, the physical plasma motion and the corresponding sensation are functionally identical. They are indivisible; one is not conceivable without the other. But, as we know, they are not only functionally identical, but at the same time antithetical, for a biophysical plasma excitation results in a sensation, and a sensation is expressed in a plasmatic motion." [19]

Our illustration shows the streaming of orgone energy in the three primary emotions of pleasure, anxiety and rage. To repeat: Biological

expansion constitutes the flow of bio-energetic plasma currents from the center, i.e., the biological nucleus (= autonomic nervous system), to the periphery (= body surface) and *beyond*. Pleasure is the psychic perception of this energy-protoplasm motion. Reich points out that, "The bio-energetic "center" has nothing to do with the "center" of mechanistic neurology. It is not located in the cerebrum, but in the *middle of the body*. It coincides with the location of the largest and most important of the ganglia centers, the solar plexus." [20]

The smooth, dry and warm skin surface attests to the parasympathetic stimulation. The arteries dilate and become suffused with blood and the flow of plasmatic currents outward increases the turgor of the body surface. The orgone energy charge of the skin surface increases markedly. The orgone energy field of the organism becomes excited and extends farther out beyond the body periphery.

The heart is shown in the graphic because pleasure can be equated with the sexual, love function of the organism. The energy metabolism of the orgonotic system would suffer a loss of equilibrium without pleasurable expansion. The discharge of surplus cell energy, e.g., cell division, orgasm etc. is dependent on the pleasure function. The (e)motion (= energy motion) of pleasure is eminently logical and rational.

Biological contraction is the streaming of plasmatic currents from the periphery to the center. The movement of energy-protoplasm in this direction is perceived as anxiety. More specifically, anxiety is a contraction against an expansive impulse. "*Anxiety is the expression of a bio-energetic expansion which is inwardly blocked and reversed in its motion.*" [21]

The cold sweat, dry mouth and rapid, forceful heart beat attests to the sympathetic stimulation. The arteries contract and are drained of blood. As the plasmatic currents retreat inward, tissue turgor decreases and the skin pales. There is a sharp decrease in the orgone energy charge at the skin surface. The orgone energy field beyond the body of the organism becomes less extensive.

When the organism's survival is endangered by the external world, e.g., a person pulls out a knife and approaches you in anger, an anxiety reaction arises. Adrenalin is secreted. The organism is readied either to take flight or to fight. The emotion, or more accurately, the re-motion (= retraction of energy motion) of anxiety is rational.

Biological expansion is also operative in the emotion of rage. However, there exists a qualitative difference between the expansion of pleasure and that of rage. Research has disclosed that, "The common functioning principle of pleasure and rage is the expansion of the life apparatus. The antithesis of pleasure and rage is a result of the fact that in pleasure the biological excitation seizes the body surface, whereas in rage it mobilizes the deep-lying musculature and does not reach the skin. The charge of the skin increases in pleasure and decreases in rage. This is demonstrable at the oscillograph. Since the skin surface functions mainly as a perceptual apparatus, the musculature, on the other hand, functions chiefly as an apparatus of movement and destruction, the difference between the goals of the pleasure-rage-emotions can be explained: the goal of the first is the tactful

sensation of pleasure at the surface of the organism; the goal of the second is motor activity and destruction." [22]

When the living orgonotic system's survival is endangered from the outside world, e.g., from a knife-wielding attacker, it initially experiences anxiety. This anxiety primes the organism for flight or fight. The fight option is expressed in rage. The muscles become mobilized for the conquest or destruction of the external threat to life. Here again the essential rationality of the (ae)motion (= aggressive energy motion) of rage is demonstrated.

Instinct and intellect are, within the context of mechanistic thinking, irreconcilable human attributes. They are, in fact, regarded as being opposites and antagonists. Thus, the intellect is considered to be the rational component of the mind-body dichotomy while the emotions are thought to be (with few exceptions) the products of irrational drives. The dictum of contemporary, sophisticated society proclaims: "Develop the mind and control the emotions." Our chaotic, war-plagued twentieth century leaves no room for doubt as to the existence of a reservoir of potential and actual cruelty, sadism and murderous rage in mankind. Therefore the subjugation of the emotions by the intellect seems to be a laudable, realistic prescript. However, in the light of the preceding ergonomic insights, we have come to the firm conclusion that the *primary emotions are logical and rational*.

We must, therefore, ask the following question: If the instinctual, bio-energetic functions are rational, then how and why do life-inimical drives originate? Reich answers: "According to the psychoanalytic concept, 'the unconscious mind is composed of nothing but asocial drives which, quite logically, must be suppressed...it does not contain any instinct which are essential for the process of living. All social and cultural attitudes are "sublimations" of antisocial drives.' In short, psychoanalytic theory assumes that the unconscious is the last biologically given realm; that there is nothing behind what the analyst can find in the depth of the person. This theory knows nothing of the bio-energetic functions in the core of the living system; neither does it penetrate deeply enough into the realm of bio-energetic functioning to realize that the "polymorphus perversity" and antisociality of the unconscious are artifacts of our culture which suppresses the naturally given bio-energetic functions. This outlook is, of course, quite hopeless... If the unconscious, antisocial drives are biologically given, if the child is born a wild, cruel, asocial animal, then there is no end in sight for the emotional plague. Children from birth on are conditioned and adapted to the culture based on the suppression of the secondary drives." [23]

Keen observations and long years of clinical experience yielded valuable data. Orgonomy finds itself in a position to distinguish between the primary and the secondary emotions. The former are natural and are dependent on the free, completely unimpeded flow and pulsation of orgone energy within the organism; while the latter are culture-induced and arise in direct response to the blockage of rational bio-energetic functions. Dr. Wilhelm Reich coined the term "armor" to describe these blocks. This armor consists of physical rigidities in the form of contracted tissues and spastic musculature and a psychic rigidity in the form of an inflexible character structure.

ORGONE ENERGY FIELD

The simplest cell, the individual organ and the total organism are each and all orgonotic (= orgone energy) systems. Their origin can be traced directly to the cosmic orgone ocean in and from which they have evolved. Although some of the specifics of the dynamic process of this genesis have yet to be ascertained, the fact that the orgonotic system emerges from, lives in and, with death and disintegration, returns to the orgone ocean is indisputable. Albert Einstein, who could not accept the lawlessness of the "uncertainty principle" in particle physics, often remarked, "God doesn't play dice with the universe." Consequently, Einstein labored to bring order and harmony into the universe in the form of a mathematical unified field theory. His prodigious efforts were doomed because he existed solely within the intellectual confines of abstract formulas and empty, 'curved' space. Contrary to the "theory of relativity", the truth is not relative. The truth happens to be that the mass-free orgone energy continuum is the tangible, perceivable and demonstrable *unified field* within which there is a discernible pattern of harmony and order. Even as the organized entities of orgone energy, for example, protozoa, metazoa, atom, planet, galaxy, etc. are varied and infinite; they all constitute "lawful" systems which are governed by the functional processes of the primordial life energy.

The orgonotic system consists of a nucleus, a periphery and an orgone energy field. The orthodox biologist would sneer at the fact that the energy processes in an amoeba are functionally identical to those in the autonomic nervous system of the human organism. This is understandable since he knows nothing about the orgone energy function of pulsation which is expressed in the expansion and contraction of the plasmatic nerve ganglia. The mechanist will again look contemptuous when he learns that the existence and essential functions of the orgone energy field are clearly observable in red blood cells.

"The red corpuscle is an orgonotic system in miniature, containing a small quantity of orgone energy inside its membrane. At 4000x magnification, the red blood corpuscles show a deep blue glimmer and lively vibration of their contents. They expand and contract and are therefore not rigid, as is usually thought. They carry atmospheric orgone energy from the lung to the tissues." [24]

A vigorous, healthy and oxygenated blood corpuscle has a well-defined blue margin; this orgone energy field can be seen to glimmer, i.e., pulsate. An enervated, diseased and oxygen poor corpuscle, on the other hand, either lacks a perceptible energy field or has only a very faint, narrow blue margin. Arterial blood has a wider field than does venous blood. When a corpuscle is highly charged, i.e., when it has a high oxygen and orgone content, it expands considerably while the orgone energy field glows more intensely and extends farther out from the cell membrane. When the corpuscle loses charge it contracts and the blue margin dims and becomes narrower.

Reich, who was always mindful of the functional unity of nature, saw in the microcosm the processes of the macrocosm. He could, like William Blake wrote, "See the world in a grain of sand." He was a scientist and was not able to see what clairvoyants such as Edgar Cayce actually claim to see, that is, the "human aura".

Also, being unfamiliar with Dr. Kilner's suppressed pioneer medical research of the 'human atmosphere', he did not assemble the dicyanin screens that can make the *orgone energy field of the human being* visible. Reich did, however, construct an *orgonoscope* through which the energy surround of living organisms is discernible. In addition, he took x-ray photographs in 1944 - long before the advent of Kirlian photography.

"The x-ray photographs of the orgone energy field between the palms showed that an excited orgone energy field impeded the penetration of the x-rays. The experiment was undertaken in the following way: the x-ray tube was so focused that the two palms were between the film and the tube and were close to the film. First the photograph is taken with the hands at rest; the film does not show any shadowing between the two vertically held hands. This is the control experiment.

The experiment now requires that the orgone energy field be excited between the palms. This occurs when the palms are moved slowly with pulling movements toward and away from one another. Sooner or later, varying with each individual, a sensation appears between the palms as though there were an elastic cushion between them. At the same time one feels an *attraction between the palms*. The attraction indicates an excitation of the orgone energy field...

Between the palms we see a strong shadowing which is not present at the back of the hands. Behind the backs of the hands the x-rays have penetrated unhindered and have blackened the film completely. *Between the palms, on the other hand, the x-rays have been impeded as if tin foil or living tissue had lain in between.* The strongest blocking of the penetration of the x-rays lies approximately in the middle of the palms, i.e., at the point where we feel the "elastic cushion" when we excite the orgone energy field." [25]

Reich also constructed an *orgone energy field meter*. The precise measurements taken at the meter and at the oscillograph have established the following:

- 1.) *The orgone energy field of the total human organism expands and contracts.* Hence, when the organism is in good health, the field is intense and extensive; with illness, the field becomes diffuse and narrow.
- 2.) *The orgone energy field is dependent on the emotional state of the organism,* i.e., the biophysical expansion of pleasure is reflected in an intense, wide field and the biophysical contraction of anxiety is reflected in a diffuse, narrow field. Indeed, every (e)motion (= energy motion) has its own particular configuration.
- 3.) *The orgone energy field pulsates.* This pulsation is neither in tune with the mechanical pulse rate of the heart nor with the rhythmic process of respiration. The pulsatory rate is in accord with the bio-energetic (= orgone energy excitation) of the organism. Pulsation increases with pleasure and rage and decreases with anxiety and depression.
- 4.) *Pulsation is at a minimum during sleep.* Pulsation is weak during the early morning hours and reaches a peak at about mid-day.

- 5.) *The character structure of the individual is apparent in the orgone energy field, i.e., a rigid, inflexible orgonotic system has a narrower, less pulsatile field than a mobile, flexible orgonotic system. The former organism can have an orgone energy field which extends as little as a few centimeters; whereas the field of the latter can extend four meters and more.*

The orgone energy field is, therefore, an integral part of the organism. Although the field is not visible to most people, it is, nevertheless, as real as the invisible air that we breathe. The condition of this field can never be described as being static. The orgone energy field is dynamic, i.e., there is always movement and pulsation.

We have, with the investigation of the orgone energy field, arrived at another crucial crossroads. The reader will recall that the seemingly separate paths of soma and psyche seem to converge and to find unity in the *common functioning principle* (CFP) of orgone energy pulsation. Now we have discovered that the seemingly separate realms of biological (= organic) orgone energy and atmospheric (= cosmic) orgone energy merge in the orgone energy field of the living organism. The mass-free energy field is an *interface* between organic and atmospheric orgone energy. For example, a warm, sunny day, that is, when the atmospheric orgone is expansive, is a stimulus for biological expansion and the field widens. On the other hand, a cool, cloudy day, that is, when atmospheric orgone is contractive, is a stimulus for biological contraction and the field narrows. These phenomena will become wholly comprehensible once we gain some insight into the functions of the atmospheric orgone energy.

SUPERIMPOSITION

Renowned physicist, Sir A. Eddington, was forced to admit that, "There is something *radically wrong* with the present conceptions of physics and we do not see how to set it right." Let us use our imaginations for a moment and listen to a hypothetical conversation between a seal and a fish. The warm-blooded mammal plunges into the blue sea. It fills its lungs with oxygen and dives headlong down into the ocean depths for a rendezvous with a cold-blooded sardine. The seal has promised to change its diet from fish to seaweeds if the sardine can provide some proof of intellectual capacity. The fish proceeds to describe every detail of the aquatic habitat to perfection; from the tiniest plankton to the awesome whale. The sardine was even able to supply the Latin names for the multitudes of flora and fauna. The seal was very impressed. The seal's stomach rumbled in anticipation of its vegetarian future. Then the seal asked what it thought was a mere rhetorical question, i.e., "What about the water?" The fish gurgled, "What in Neptune's universe is water?" The seal swam to the surface with a sardine tail dangling from its mouth.

If we substitute 'mechanistic science' for the sardine and 'orgonomy' for the seal, the analogy is quite appropriate to the situation in current natural research. The two parties will be in conflict as long as the ignorance of the primordial orgone energy ocean prevails.

Superimposition, like pulsation and the ergonomic potential, is a

basic functioning principle of the primordial orgone energy. Superimposition is the key that unlocks the door to the genesis of matter from energy.

"Reduced and abstracted in its purest form, superimposition in the biological realm appears as the approach through attraction and full bio-energetic contact of two organotic systems. Membranes, organs, fluids, nerves, will power, unconscious dynamics, etc., must be discounted here since they do not constitute superimposition. Superimposition of two orgone streams appears as a common functioning principle (CFP) of nature that fuses two living organisms in a specific manner - specific to the basic natural function, and not to the two organisms. In other words, *superimposition of two orgone energy streams reaches, as a function, far beyond biology*. It governs other realms of nature, too, as it governs living systems. In order to find out which realms of nature beyond the living realm are governed by the superimposition of two orgone energy streams, we must not deviate from its basic form and movement.

Finding superimposition in realms of nonliving nature would be a first decisive step toward finding a cardinal root of man in nature, a *common functioning principle* that, already present and working in nature at large, also permeates in a basic fashion the animal kingdom, including man.

Years of painstaking observations and functional theory formation have hewn two major pathways into the realm of nonliving nature that revealed the function of superimposition to be at work at the very roots of the universe. One pathway leads into the microcosmos, the other into the macrocosmos. Superimposition is the (CFP) that integrates both into one natural function.

Let us begin with the microscopic realm. We shall not dwell too long in it since, though the theoretical outlines seem clearly marked, there are many gaps in details essential to a firm foothold. The essence of the microscopic framework is as follows: In a completely darkened, metal-lined orgone energy observation room we can observe luminating orgone energy units pursuing certain pathways as they move spinning forward through space. These pathways distinctively show the form of a *spinning wave*. This was reported on several occasions many years ago without further elaboration. There is now ample, well-reasoned evidence to the effect that *two such spiraling and excited orgone energy units attract and approach each other until they superimpose*.

It is an essential characteristic of our base of operation to assume that the primordial orgone energy ocean is entirely mass-free. Accordingly, mass (inert mass at first) emerges from this mass-free energy substratum. It seems logical further to assume that *in the process of superimposition of two mass-free, spiraling, and highly excited orgone energy units, kinetic energy is being lost, the rate of spiraling motion decreases greatly, the path of motion is sharply curved, and a change takes place from long-drawn-out spinning forward toward circular motion on the spot*.

Exactly at this point of the process, inert mass emerges from the slowed-down motion of two or more superimposed orgone energy units.

It is immaterial whether we call this first bit of inert mass "atom" or "electron" or something else. The basic point is the emergence of inert mass from frozen kinetic energy. This assumption is in full agreement with well-known laws of classical physics. It is also in agreement, as will be shown in a different context, with the quantum theory.

To continue our train of thought, we must, further assume that the material, chemical "particles" that compose the atmosphere have originally emerged and are still continuously emerging through the superimposition of two or more spinning orgone energy units in the orgone envelope of the planet.

Inert mass is being created by superimposition of two or more spinning, spiraling orgone energy units through loss of kinetic energy and sharp bending of the elongated path toward circular motion.

A functional relationship is hereby established between the spinning movement of mass-free orgone energy (OR) and inert mass (m), which also characterizes the relationship of heavenly bodies spinning in the surrounding orgone ocean. Spheres or discs of solid matter spin on a spiraling path within a faster-moving, wavy orgone energy ocean, as balls roll forward on a faster-moving, progressing water wave. The exact numerical relationship of the two movements, though of great importance, does not matter at this point. What is important is that a functional relationship has been found between the movements of primordial orgone energy and matter that, for the first time in the history of astrophysics, makes comprehensible the fact that our sun and our planets move in the same plane and in the same direction, held together in space as a cohesive group of spinning bodies. The spinning wave is the integration of the circular and forward motion of the planets, of their simultaneous rotation on the N-S axis and their movement forward in space. *The orgone ocean appears as the primordial mover of the heavenly bodies.*

Sharply delineated, new astrophysical problems arise that cannot and should not be discussed at this time. It is sufficient to have them tentatively formulated:

- 1.) It is necessary to assume that the first material particles that were "created" by superimposition of two or more orgone energy units form the nucleus for the growth of the material body. It does not matter at present whether these "core" elements of the future heavenly body are of a gaseous or of a solid nature, or whether they possibly go through a process of development from a gaseous to a solid state. What matters is that a starting point for the development of a heavenly body from primordial energy has been hypothetically established.
- 2.) A further logical necessity is the assumption of a *genesis of the function of gravitational attraction*. The growth of the material core particle of the future heavenly body would be accomplished on the basis of the *orgonomic potential*. The organotically stronger body attracts smaller and weaker systems, such as mass-free orgone energy units, and other bits and pieces of primordial matter as they arise in the orgone energy ocean, which surrounds the first growing core. It would be necessary, furthermore, to distinguish

between the *organotic attraction* of two energy waves and the *gravitational attraction* between two material bodies, i.e., to establish that primordial organotic attraction changes functionally into gravitational mass-attraction.

- 3.) From points 1 and 2, we would further have to assume that the growing material core would be permanently surrounded by an orgone energy field which from now on would be subject to the gravitational attraction of that core. This would explain the origin of the orgone envelope of the sun (corona) and of the earth. Both are clearly visible and are governed by basic ergonomic functions such as wavy motion from west to east, faster motion of the envelope than the globe, lamination, blue color, and containment within the field of attraction of the material core.
- 4.) The mass-free orgone energy stream that surrounds the material globe, must, due to organotic attraction exerted upon it by the core, separate from the general stream of the cosmic orgone ocean and follow the rotation on its axis of the material body. Thus, *the cosmic ocean, hitherto unitary, splits up into one major and one minor orgone energy stream.*
- 5.) The gaseous atmosphere that surrounds the heavenly bodies would necessarily have to emerge through the superimposition of mass-free orgone energy units in the revolving orgone energy envelope. This necessary assumption would have to be confirmed in due time by the establishment of the laws that lead from the mass-free orgone energy units to the atomic weights of the gas particles that constitute the gaseous atmosphere.
- 6.) It follows that concentration and condensation would increase toward the core of the rotating body, the heavier elements being located near the center and the lighter elements progressively nearer the periphery, with the lightest gases - helium, hydrogen, argon, neon, etc., - being located at the extreme periphery.
- 7.) In this connection, a most striking functional identity must be mentioned, which so far has not attracted attention in scientific thinking. The chemical elements that constitute the gaseous atmosphere of the planets are identical to the elements that constitute the living organotic system. They are: hydrogen (H), oxygen (O), nitrogen (N), and carbon (C), and their molecular groupings such as CO₂, H₂O, C₆H₁₂O₆, etc. This functional identity must have a deep significance.

The functional identity concerns only the primordial orgone energy functions and the transformations from primordial mass-free to the secondary mass-containing functions. From there on, but not previously, the well-known laws of mechanics and chemistry are fully valid. They submit to evolution; they have a genesis. The problem to be solved in detail is, *how the mechanical and chemical laws originated from the functional processes in the mass-free primordial orgone energy ocean.*

The advantage of our work-hypothesis, as delineated above, is quite obvious, to summarize:

- 1.) It frees us from the clumsy assumption of material bodies rolling in "empty space", in a merely mathematically approachable action at a distance in a "field". The "field" is real, of a measurable, observable, and thus physical nature. *Space is not empty but is filled in a continuous manner without gaps.*
- 2.) It frees us, furthermore, from the uncomfortable idea that a gravitational attraction, which could never be demonstrated, is exerted by the sun over tremendous distances upon all planets. *The sun and the planets move in the same plane and revolve in the same direction of the cosmic orgone energy stream in the galaxy.* Thus, the sun does not "attract" anything at all. It is merely the biggest brother of the whole group." [26]

NONLIVING ORGONOTIC SYSTEMS

The nonliving organotic system, Earth, is composed of:

- a.) nucleus, i.e., a core of metallic material
- b.) periphery, i.e., a crust
- c.) orgone energy field, i.e., the atmospheric orgone energy envelope.

The bio-energetic core of the single cell, the nucleus, and the bio-energetic core of the organism as a whole, viz., the autonomic nervous apparatus, are the orgone-rich, strongest components of their respective living organotic system. The material center of the planet, the metallic core, is likewise the orgone-rich, strongest component of the nonliving organotic system. The immense bulk and density of this material center is the physical proof of this function. *Mass is, in essence, afterall, concentrated and congealed energy.*

We found it necessary, in the living realm, to ask the question: "What holds the cell together?" The answer was: the strong energetic attraction that is exerted by the nucleus upon the cytoplasm. This answer also applies in the nonliving realm. The ergonomic potential dictates that energy flows from the low to the high level, i.e., the weaker components are attracted to the stronger. Hence, the solid core, that is, the high energy level component of the nonliving organotic system exerts attraction on the lower level silicate mantle of the planet. Moreover, in accordance with this gravitational process, unbound, mass-free orgone energy is continually drawn from the surrounding energy substratum toward the planet's core. This brings us to the orgone energy field of the Earth.

The atmospheric orgone energy envelope was initially observed by Reich at his cabin on Lake Moosehookmeguntic, Maine. He noted: "When the telescope is pointed south, it is possible to observe against the background of the opposite shore of the lake, at a magnification of only 60x, a wavy, pulsating movement traveling, with few exceptions, always *from west to east*. The west to east movement is constant, whether or not there is a wind, and whether the wind is from west to east or south to north, strong or weak. The further the telescope is turned toward the west or the east the more difficult it is to see the movement. It can no longer be seen when the telescope is turned due west or east. The speed of the wavy movement varies greatly at different times. It is independent of the air temperature.

The "something" in the atmosphere is moving faster than the earth. Otherwise its movement could not be seen." [27]

The Earth's *orgone energy envelope*, like the orgone energy field of the living organism, pulsates. This (BFP) of pulsation is operative in both the living and the nonliving organotic system. However, the manner of the excitation in each case is different. The constant, irregular vibration of the living organism's orgone energy field is a direct expression of the bio-energetic excitation of the body. This excitation is spontaneous and is *internally generated*. The pulsatory rate of the atmospheric orgone envelope, on the contrary, is strictly dependent on an *external source of excitation*, i.e., the sun. Pulsation increases with intense solar radiation and decreases in the absence of solar radiation. The orgone energy envelope of the Earth like the orgone energy field of the organism expands and contracts as a whole. Therefore, when, during the daytime period of solar excitation, the distribution of the atmospheric orgone is even (without significant concentrations of OR energy in cloud formations) the orgone envelope expands and extends far out from the Earth's periphery. When, on the other hand, the orgone energy distribution is uneven, e.g., when the sky is overcast, the orgone envelope contracts toward the Earth's periphery. There is, as such, a daily variation in the degree of expansion and contraction of the orgone energy envelope. In addition, there is a cyclical fluctuation in the overall expansion and contraction of the OR envelope in a specific geographical sector of the globe. This is the cycle of the seasons. The OR envelope is expansive over a region during the summer and is contractive over that same region during the winter.

The living organotic system grows, reaches maturity and maintains a dynamic equilibrium through the orgone energy metabolism of charge and discharge. The bio-energetic processes of cell division, the pulsation of the heart, the rhythmic respiratory process, etc., are all governed by the four-beat *life formula*: tension > charge > discharge > relaxation. The nonliving organotic system also grows, reaches a specific capacity level and maintains a dynamic equilibrium through the orgone energy metabolism of charge and discharge.

Let us take a close look at an obvious, graphic example of this energy metabolism in the nonliving organotic system, sun. This star is a potent, high level orgone energy entity that is surrounded by the mass-free OR energy substratum. The attraction that the sun continuously exerts upon the weaker, low level orgone energy units in the general continuum enables the sun to maintain its *capacity level*, i.e., its size, density and intensity. The incessant influx of orgone energy from the substratum charges the organotic system which then maintains equilibrium through the function of discharge. This discharge is accomplished by the radiation of solar energy. The existence of an orgone energy field (= corona) around the sun leaves no doubt that solar energy is OR energy.

Whereas the living organotic system is governed by the life formula; the nonliving organotic system is governed by the following *energy formula*: attraction > charge > discharge > radiation.

The planet Earth, no less than the star, sun, functions according to the energy metabolism of charge and discharge. This fact is clearly evident in the orgone energy process which I choose to refer to as

"planetary respiration". Whereas biological respiration involves the rhythmic inspiration and expiration of air; planetary respiration involves the inhalation and exhalation of atmospheric orgone energy.

Solar excitation is operative during the daytime phase and is absent during the night-time phase of the Earth's rotation. The Earth 'inhales' orgone energy at night and 'exhales' orgone energy during the day. The Earth's core, i.e., the orgone-rich, strongest component of the organotic system, exerts maximum attraction on the silicate mantle and on the fluid, elastic water medium at night. The ebb and flow of the daily oceanic tides are a direct result. The OR energy envelope is drawn toward the crust and literally contracts. A subsequent confluence of orgone energy at the center of the Earth charges the core. The *inhalation phase* of planetary respiration finds expression in the attraction > charge functions of the energy formula.

The reader should keep in mind the fact that the planet is always and simultaneously in both a night and a day phase. Half of the material sphere is dark while the other half is light.

The sun irradiates the daytime half of the Earth. It infuses the core with orgone energy and excites the OR energy envelope. The pulsation of the OR energy envelope increases and the steady stream of solar energy charges the core. The core, in response, discharges. The radiation of orgone-energy from the planet's center then suffuses the atmospheric OR energy envelope and stimulates it into expansion. This is the *exhalation phase* of planetary respiration. It finds expression in the discharge > radiation functions of the energy formula.

The orgone energy metabolism of the living and nonliving organotic systems have in common the functions of charge and discharge. However, the 'inorganic' functions of attraction (= energy confluence) and radiation (= energy dispersion) are more appropriate in the process of planetary respiration than the organic functions of tension (= tumescence) and relaxation (=detumescence). The lungs, in biological breathing, swell with inspiration and exhibit detumescence with expiration. There is, in planetary respiration, a confluence of orgone energy at the core rather than a physical swelling and there is a dispersion or orgone energy from the core rather than a physical detumescence.

ATMOSPHERIC ORGONE ENERGY ENVELOPE

"It is hard to feel affection for something as totally impersonal as the atmosphere and yet there it is, as much a product of life as wine and bread. Taken all in all, the sky is a miraculous achievement. It works and for what it is designed to accomplish, it is as infallible as anything in nature. I doubt whether any of us could think of a way to improve on it, beyond maybe shifting a local cloud from here to there on occasion. We should credit it for what it is: for sheer size and perfection of function, it is by far and away the grandest product of collaboration in all of nature." [28]

Orgonomy is in sympathy with the foregoing observations made by L. Thomas in his book, "The Lives of a Cell", except for the fact that

this "miraculous achievement" has come under close scientific scrutiny and as a result the transcendental "miraculous" has been supplanted by tangible, concrete orgone energy functions. The mechano-mystical view of nature is especially near-sighted when it comes to atmospheric functions.

"The search for causes and effects in the *weather machine* is somewhat desperate. If the weather did not vary from year to year you could dismiss the problem. You could say that the machine worked steadily as a unit, like a cruising car. Even a simple car engine has feedback. The sparks, for instance, that explode the fuel and turn the engine are themselves generated by the engine. They are nicely synchronized with the valves and no further explanation is needed for why the car keeps going. The weather machine, unfortunately, is like a car that keeps changing speed and there must be reasons. What are the internal controls (like the throttle and gears) that account for the changes?" [29]

The recognition that the Earth is not a machine but an orgonotic system, which is governed by the orgone energy metabolism of charge and discharge, has enabled us to establish a firm basis for the comprehension of the functions of the atmospheric OR energy envelope.

"Manifold and complex as the different ergonomic functions in the atmosphere are, they, too, necessarily follow some common functioning principle (CFP) which governs all of them. In observing the OR energy in the sky and in the darkened metal room, one is puzzled by the question as to the manner in which what we see outside and inside the OR room may be related to each other. Lightning is usually explained by an equalization of positive and negative electrical charges in the atmosphere. As yet nobody has found out what electricity actually is. Orgonomy assumes that electricity and magnetism are varied functions of the primal cosmic OR energy. However, there is another inconsistency in the classical approach which has been mentioned on many occasions: *How is it possible that in an otherwise ion-free atmosphere, suddenly there appear billions of volts in the lightning flashes?* The answer to this puzzle is that the atmosphere is free of ions, but is full of atmospheric OR energy.

In a clear, calm atmosphere, the OR energy is more or less evenly distributed over the whole span of the sky. When thunderstorms develop, OR energy is withdrawn from clear spaces and concentrated in the place where the future clouds will appear. This process follows the so-called *ergonomic potential*, i.e., the flow of the primordial energy from the lower to the higher or from the weaker to the stronger charge. If a certain level of capacity in the cloud has been reached, if furthermore, the amount of OR energy accumulated becomes insufficient to carry the water, rain sets in, and lightning occurs. In other words: the OR energy again separates from the water vapor and returns to its usual state of even distribution. This occurs by *discharges*, i.e., the "lightning". *The lightning thus represents vast amounts of OR energy concentrated and discharging in a very small area.* The discharge in the lightning brings the high potential down again to the usual level, somewhat like this:

The equalization of the OR energy content takes place at times in the form of oscillatory movements. Often, after a heavy and prolonged thunderstorm and rain, the so-called heat lightning or "sheet lightning" sets in in a perfectly clear sky, with no clouds present in the atmosphere. These heat lightnings are not accompanied by thunder.

The "sheet" lightning occurs over wide areas of the sky. It has a clearly oscillatory character. It also induces illuminations over wide neighboring areas as if by relays. From careful observations of the movements of the heat lightning flashes, it seems probable that the neighboring areas are being excited in succession by the nearest illumination. Heat lightning also occurs with no thunderstorms preceding it, mostly in the late evenings after very warm summer days. We may assume that heat lightning is a special kind of equalization by illuminating discharges, of unevennesses in the atmospheric orgone energy concentrations. Some areas in the atmosphere have become more concentrated than others. This is now being corrected, as it were.

We met above with a peculiar function in OR energy; the change from evenly distributed to highly concentrated states, and back again from a highly concentrated energy level to the state of more or less even distribution. The same phenomenon can be observed in the metal OR room.

To begin with, the movements of the grayish, bluish "vapors" or "fogs" are slow, undulating, concentrating slowly here and there, and dispersing slowly again. The longer we sit in the OR energy room, the greater the changes which take place. We can speed up these changes by having more people in the OR room or by exciting the OR energy with a simple spark-producing electrical coil system. We then can see that the even distribution of the OR energy is replaced by sharp, long lines of bluishly illuminating "threads". The concentration increases more and more; if we wait long enough or excite the OR energy strongly enough, whitish, rapid, miniature lightnings appear and cross the room in all directions...

The parallel to the creation of true lightning in the atmosphere is obvious: *when OR energy is being excited, either by other orgonotic systems or by small electrical discharges, the even distribution is replaced by high concentrations.* These concentrations cannot last long, but must discharge back again into the surrounding OR energy ocean, just as it happens with lightning and consecutive heat lightning.

The orgonotic metabolism (slow movement in an evenly distributed OR energy substratum > concentration toward the higher charge > ergonomic potential from the weaker to the stronger system > limitation by a certain, as yet undefined "capacity level" > discharge in the form of flashes of this built-up potential back again into the substratum and thus equalization of potential {mechanical potential} from high to low) is thus visibly discernible in atmospheric OR energy functions as it is in living organisms. OR energy metabolism is common to both the living and nonliving realms." [30]

ORGONE ENERGY AND THE "ETHER"

The Encyclopedia Britannica defines the "ether" as, "A hypothetical substance filling all space inclusive of those volumes occupied by ordinary matter, and serving to transmit those forces, for example, gravity, which one object exerts on another located at-a-distance. During the nineteenth century the ether hypothesis was accepted by all competent authorities, although there was a diversity of opinion as to the ether's properties.

After 1900 the opposite opinion gained ground: namely that the hypothesis is unnecessary for the explanation of any observed phenomena."

The natural philosophy of Greece, notably that of Aristotle, tilled and cultivated the soil in which empirical science would eventually take root. The concept of an invisible, ubiquitous substance that knits together the fabric of the universe goes back to those early times in Western civilization. The motions of the planets, the movements and the form of living organisms, etc., were thought to be derived from the functions of an "aether" or "ether".

Like his Greek predecessor's, Rene Descartes', in the seventeenth century, built his cosmology around the conception of an all-pervasive ether. "Rene Descartes' attempted to explain the entire mechanism of the world by ether eddies. These supposedly transmitted light and at the same time set the celestial bodies in motion. He succeeded in reducing the phenomena of nature known at the time to this single cause, which transmitted the effect tangibly from one thing to another; thus everything was connected in a chain with everything else. Descartes's contemporaries hailed this triumph of reasoning which seemed to explain every detail of the entire creation... Then Newton came along with his mathematical proofs of gravitation, which could not be explained by ether eddies; gravitation was a mystery working over great distances in some inconceivable manner. Such a thing was repugnant to Europeans, who wanted to see the interlocking of cause and effect with their own eyes. Newton's version of nature therefore seemed to be a descent from the heights attained by Descartes." [31]

Sir Isaac Newton, who had such a firm grasp on the mechanical laws of the world, was nevertheless a mystical man. He considered the incomprehensible nature of gravity to be a sort of divine dispensation. God had forbidden to man the ultimate insight into the mystery of creation.

Whereas Isaac Newton refused to commit himself, "I make no hypothesis", as to how gravitational attraction was transmitted from body to body across the void; Descartes' unequivocally rejected the idea of action-at-a-distance. He insisted that force is communicated only by actual contact. The attraction that is exerted by the Earth on the apple in the tree and on the moon is possible only if an intervening medium is present. Descartes', was, therefore, steadfast in his contention that space was indeed filled with some form of matter, i.e., the imperceptible ether.

There were, in the late nineteenth century, four known ways of transmitting force across a "vacuum". These action-at-a-distance phenomena were: light, gravity, electricity and magnetism. Some of the best minds of this epoch were literally obsessed with the phenomenon: light. Contrary to Newton's view that light consisted of a stream of corpuscles which moved as a mysterious and instantaneous force across 93 million miles of empty space; these physicists said that light consisted of waves. If light was a wave form; then it was only logical to deduce the fact that something was waving. In water waves, the molecules move up and down; in the case of sound waves, the atoms or molecules of air move to and fro. The transmitting medium for light had to be what came to be called the light-carrying or luminiferous "ether".

"It seemed to 19th century physicists that if space were filled with ether, it was fair to suppose that this ether served only to transmit forces such as gravity and waves such as those of light, and was not itself affected, overall, by forces. In that case, it could not be set into motion. It might vibrate back and forth, as in transmitting light waves, but it would not have an overall motion. The ether, then, might be considered as being at absolute rest." [32]

This premise, i.e., that the ether is a stagnant, fixed substratum - which has since been proven to be false by ergonomic disclosures- set the stage for the experimentum crucis that would, for all practical purposes, sound the death knell for the ether hypothesis.

Although the postulated 'ether' seemed to solve the riddle of action-at-a-distance and in addition fit so well into the current theory of light; its tangible existence had never really been demonstrated or confirmed. Serious doubts gnawed at the innards of the scientific community. It was to resolve this doubt that the famous, indeed almost legendary, Michelson-Morley experiment was designed in 1887.

Michelson and Morley knew that the velocity of light was approximately 186,000 miles per second. With this figure to work with, it was hoped to prove the existence of the motionless ether. The Earth not only revolves around its axis, but moves around the sun at a velocity of 18.6 miles per second. Hence a ray of sunlight ought to move 18.6 miles faster when measured along the Earth's orbit than when measured perpendicularly to it, because the Earth's speed would be added to that of the light. Such an experiment would not only prove conclusively the Earth's revolution around the sun, but would also demonstrate the existence of something at rest in the universe, the "luminiferous ether".

The sought-after change in the velocity of light did not occur. The experiment was performed with such accuracy that the final negative result was accepted without question.

"The problem which now faced science was considerable. For there seemed to be only three alternatives.

- 1.) The Earth was standing still, which meant scuttling the whole Copernican theory and this was unthinkable.
- 2.) The ether was carried along by the Earth in its passage through space which had already been ruled out to the satisfaction of the scientific community by a number of experiments, notably those of astronomer James Bradley.
- 3.) The solution that the ether simply did not exist which to many 19th century scientists was equivalent to scraping current views of light, electricity and magnetism, and starting over again." [33]

Since most physicists had never really felt at ease with the clumsy ether concept (at least as it had been perceived and formulated at that time) the ether was abandoned without a whimper.

It has been said that the failure to detect any influence of the Earth's motion upon the velocity of light really formed the starting point of Einstein's theory of relativity. It is because of its importance in respect to this particular theory that the experiment is so fundamental and was later so often repeated.

As Einstein said years later, "If Michelson-Morley is wrong, then relativity is wrong." [34]

The brave, new cosmology, which emerged from the ashes of the luminiferous ether hypothesis like the mythological phoenix, was and is based on this theory of relativity. "The theory of relativity does not provide us with a 'philosophy' in the old sense; it leads us into an icy, inhuman atmosphere. Yet here concepts that seemed to underlie sharply disparate phenomena merge into a harmonious unity." [35]

The individual who is aware of orgonomic facts and their vast implications knows that any cosmology that is divorced from the reality of the cosmic orgone (= life) energy ocean is icy and inhuman. Harmonious unity is a figment of the imagination, a cruel delusion, within such a construct.

The astronomer Herschel declared, "A scientist must be prepared to revise his entire doctrine in the light of a single new fact." [36] Wilhelm Reich's investigation of light has revealed many such new facts. I will, before I offer the reader Reich's critical appraisal of the 'legendary' Michelson-Morley experiment, preface it with some fundamental facts about light.

"I reported on several telescopic observations which make it highly probable that the planet Earth is surrounded by an *orgone envelope* of an as yet undetermined width. The observations showed further that this orgone envelope *rotates* in the same direction as the Earth's sphere, that is, from west to east, and that it rotates more *rapidly* than the Earth's sphere. It was further communicated that the movement of the atmospheric orgone is *wave-like* and has different rates of speed. Before storm formation in the west the motion ceases at the point of observation and even reverses its customary west-east direction and moves from east to west. These phenomena were demonstrated as independent of both temperature and wind direction.

These observations drew my attention to other phenomena in the atmospheric orgone, among them to searchlight phenomena, which, to be sure, are generally well-known, but here appear in a new connection:

- A.) The color of the light of the searchlight is not white, but shows various intensities and shades of blue.
- B.) The light streak shows very different qualities under different conditions: on clear, completely cloudless nights with low humidity the light streak is pointed, narrow and uniform. On "damp" or cloudy nights the light streak shows, even in cloudless sectors of the atmosphere, different breadths and "nodes" of broader and brighter light. It is uneven and irregular.
- C.) The light streak which proceeds from the searchlight, ends more or less sharply. It does not show transmission in space beyond a definite limit. If one now follows up the changes in length of the light streak, one can after a sufficiently long comparison of the different positions distinguish clearly two facts:

If the light streak is vertical to the earth surface, it is at its shortest length.

If it is horizontal or tangential to the earth surface, it is at its longest.

The light streak clearly lengthens if it is moved from the vertical into the horizontal position, and just as clearly does it shorten in the reverse situation. Observation with the naked eye leaves no doubt that the horizontal length often amounts to far more than twice the length of the vertical position.

The light streak further shows in definite positions in the firmament a slight, but distinct bending.

These observations confront us with several important questions:

- a.) If light is transmitted at the speed of 300,000 kilometers a second into space and throughout space, why does the light streak end, even on perfectly clear nights, at so short a distance above the surface of the Earth?
- b.) What do the nodes and the different breadths of light streak signify in the cloudless atmosphere on certain nights?
- c.) Why is the light ray longer if it is changed from the vertical to the horizontal position?

It is probable that the three groups of phenomena just mentioned are connected with the orgone envelope of the Earth and are conditioned by different states of the orgone field of the earth. It is to be assumed that *the phenomenon of light is itself a function of illumination of the atmospheric orgone*. The lengthening of the light streak in the horizontal and the shortening in the vertical is in harmony with the fact that the depth of the rotating orgone envelope which the light streak passes through increases if the light streak is moved from the vertical to the horizontal position.

The end of the light streak would coincide with the boundary of the rotating Earth orgone envelope confronting space beyond.

The uniformity of the light streak on clear nights and its irregularity on unclear nights is in accord with the fact that the atmospheric orgone shows a regular distribution on clear days whereas it manifests different concentrations in different places of the atmosphere on unclear days. This appears in the telescope as variations in the speed of the wave-like movement in different directions of the atmosphere before cloud formation.

The light of the searchlight appears far brighter at clouds than at other places. This is regarded as a "phenomenon of reflection". In harmony with other orgone-physical facts a different explanation of this phenomenon results: It is possible that the illumination at the cloud contains a far higher concentration of atmospheric orgone than the cloudless atmosphere.

On the basis of the phenomena and considerations we have here mentioned an assumption is forced on us that is new and most surprising:

The phenomenon of light, then, would be a *local illumination of the atmospheric orgone*, determined by the atmospheric orgone's existence, its

capacity for lumination and thickness. Further, we must distinguish the phenomenon "light" from the "electromagnetic" light waves and say: What are "transmitted with the speed of light through space" are only the invisible electromagnetic waves. They swing in a cosmic orgone ocean and excite the *Earth's orgone envelope* at the point where it is dense enough for lumination.

Should this explanation be confirmed, the electromagnetic wave theory of light would not be in contradiction with the orgone-physical theory of light as a local lumination. But transmission of excitation and lumination would be separate functions of nature.

Daylight as a result of sun radiation can also be placed here without contradiction:

"Light" rays would not "come from the sun to Earth", but only waves of excitation which "are transmitted with the speed of light". These waves of excitation would bring the orgone envelope of the Earth into the state of lumination. Such an explanation of the function of light would be in harmony with the phenomenon of "dawn" long before sunrise. The orgone envelope of the Earth becomes excited long before it is hit directly by "light rays", thus long before the sun appears on the horizon. This is in accord with the fact that the light phenomena in the orgone room of my laboratory are most strongly pronounced before sunrise and after sunset. The impression which one has in the metal room can be rendered only with the words: the orgone energy is far more excited, even in the completely light-free dark room, before sunrise and after sunset than during the day or during the night... One can observe the same phenomenon on the smooth mirror of the lake: *the pulsatory movement is accelerated when the sun rises.*

From the above it follows logically that the corona of the sun is also a local phenomenon of lumination of the orgone envelope of the sun.

The considerations here presented are more than mere assumptions. Yet in order to become completely valid views of the nature of light they must be supported by further observations and facts. They can win their full weight only in a much wider connection which embraces more facts concerning the general functions of the cosmic orgone energy." [37]

Reich labored long and hard at the Orgone Institute in Maine on the phenomenon of light. Significant results were achieved when atmospheric orgone energy was observed to luminate in vacuum tubes. This orgone-physical experiment corroborated many of the "assumptions" that Reich had made from his acute, direct observation of nature.

"As reported... evacuated tubes (0.5 micron pressure) are capable of bluish lumination if they are sufficiently charged with orgone energy and are excited by a moving OR energy field or by an electric tension of from 100 to 1,000 volts. The following characteristics of the function of *vacor tube*:

- 1.) With two electrodes some 15 cm. apart (surface area ca. 2 cm²) the bluish lumination begins at both electrodes and extends from both ends toward each other as the voltage is increased. The two illuminating fields make contact with one another; then the field is

excited by the negative electrode pole and extends further; the other field, which depends on the positive pole, recedes, until it disappears altogether. It seems as if the negative electrode field were the stronger one, since it "pushes" the other one away. After disappearance of the lumination at the anode, and with further increase of the voltage up to about 800 to 1,000 volts, the whole tube luminesces strongly with a bluish-violet color. With further increase of voltage the lumination becomes brighter, until it shows a whitish color like daylight...

2.) (Omitted)

3.) In observing these vacor phenomena, one cannot escape the impression that what we are witnessing here is the *process of dawn and the development of daylight*. Their similarity in color and process is most impressive. However, only further experimentation can reveal what, in the atmosphere of our planet, corresponds to the "triggering" excitation which, in the vacor lumination, is exerted by the electromagnetic voltage. Our assumption has been that "light" is a local function; an orgonotic lumination effect; that the phenomenon of light must be separated from the excitation that triggers the OR energy into lumination. We must assume that there are many kinds of such trigger functions, such as a second, moving OR energy field (the galactic orgone energy stream) and electromagnetic tension whose trigger effect depends on the surface area of the electrodes; an as yet indefinable excitation coming from the sun, which triggers the Earth's orgone envelope into a bluish-violet and finally whitish lumination, called "dawn" and "daylight". I do not agree that it is electromagnetic waves which are propagated from the sun." [38]

I choose to close this introduction to the science of orgonomy, most of whose aspects I have merely touched upon, with Reich's critical evaluation of the *ether* controversy.

"It is not our objective to prove the existence of an all-pervasive *ether*; neither is it intended to prove the identity of the cosmic orgone energy and the postulated *ether*. All that is to be established at this point is the fact that there exists an all-pervading, observable and demonstrable energy. It is filling the gaps in the comprehension of the universe, gaps that many generations of physicists and philosophers tried hard, but in vain, to fill with the concept of an all-pervading "ether" as the primal substratum of the basic functions of nature.

The time in which cosmic orgone functions have been studied is very short. It comprises not more than a decade (in 1949). However, all observations within this short period have led us to the conclusion:

There is no such thing as "empty space". There exists no "vacuum". Space reveals definite physical qualities. These qualities can be observed and demonstrated; some can be reproduced experimentally and controlled. It is a well-defined energy that is responsible for the physical qualities of space. This energy has been termed "cosmic orgone energy".

First, let us summarize the general conclusions that follow from the fact that there is no empty space; and, second, let us summarize the

phenomena that have forced upon us the conclusion that the primordial cosmic energy, hitherto postulated as the "ether", has been finally discovered in a practical and concrete manner accessible to direct observation and experimentation.

- 1.) All physical theories resting on the assumption of "empty space" tumble if, and only if, the abstract mathematical structures that were to replace the concrete physical qualities of space cannot be reconciled with the new factual observations.
- 2.) The qualities that characterize "space" must be of a strictly physical nature, observable and reproducible in high vacuum.
- 3.) The theoretical assumption of an "ether" continues to be valid. The phenomena in the "vacuum" must agree with the qualities that had to be ascribed to the ether in order to explain the functions of field actions in space, such as gravity, light, attraction at a distance, "transmission of heat from the sun to the Earth", etc.
- 4.) The negative result of the Michelson-Morley experiment, which was designed to demonstrate the ether, must be comprehended.

The premises that led to the performance of the Michelson-Morley experiment rest on incorrect assumptions. Orgone physics starts from entirely new observations and new theoretical assumptions. Seen from the basic orgonomic viewpoint, reasoning itself must be understood as a function of nature in general. Accordingly, the results of mere reasoning must be secondary to observable functions of nature. As functionalists, we are mainly interested in the observable functions of nature; from there, we arrive at the functions of human reasoning by way of the emotional (bio-energetic) functions within observing man. As long as observable nature does not constitute the starting point for human reasoning, and, furthermore, as long as the function of reasoning itself is not deduced in a logical and consistent manner from observable functions of nature within the observer, all results of mere reasoning unsupported by observations are open to basic methodological and factual questions. This is clearly seen in the conclusion drawn by mere reasoning from the negative outcome of the Michelson-Morley experiment. Though I must leave a thorough critical evaluation of this experiment to the physicists, who are at home in the realm of its premises, the following remarks may be justified on the basis of some observations in orgone physics:

- A.) One of the premises of the Michelson experiment was the assumption that the ether is at rest; the Earth, accordingly, moves through a *stationary ether*. This assumption is clearly proven incorrect by observation of the atmospheric orgone. If the "ether" represents a concept pertaining to the cosmic orgone energy, it is *not stationary, but moves more rapidly than the globe of the Earth*. The relation of the Earth's sphere to the surrounding cosmic orgone ocean is not that of a rubber ball rolling on stagnant water, *but of a rubber ball rolling on the progressing water waves*. Thus the first assumption of the Michelson experiment becomes invalid.
- B.) Orgonomic observations make it essential to separate, within the function of "light", the "lumination" from the "excitation", which

is propagated through space with the "speed of light". Light, accordingly, does not move at all but is a *local effect of orgone illumination*. Thus the second premise of the Michelson experiment becomes invalid, if one accepts -as one is forced to do- the clear-cut ergonomic observations in nature. I refer here to the organotic illumination effect in high vacuum, to the phenomena of "dawn", to the aurora borealis, to the corona of the sun, the illuminating ring of Saturn, etc. If "light" is due to the local orgone illumination and does not travel through space at all, it is quite understandable that in the Michelson-Morley experiment no phase difference could be observed in the light beams which were "sent" in the direction of the ether "drag" and perpendicular to it." [39]

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*** CHAPTER 3 ***

THE NATURE OF NATURE

"The best among the physicists of the 20th century have given up hope regarding their own structure of thought; they, too, are looking for the new land... What has orgonomy to offer here? Does it collect the remaining fragments of a shattered old world picture that went to pieces or does it start anew?

It starts from scratch, in a basic, fundamentally independent fashion, without borrowing theories from classical science. Not because it wants to but because it has to. Its point of departure is not the electron nor the atom; it is not linear motion in empty space, nor is it a world spirit or an eternal value. Its point of departure is the observable and measurable functions in the cosmic orgone ocean, from which all being, physical as well as emotional, emerges." - W. Reich

INITIAL EXPLORATIONS

I, like the rest of my contemporaries, was taught that the Earth was surrounded by a gaseous mass which is referred to as the atmosphere. The Greek word for vapor, *atmos*, when combined with the Latin *sphaera* (= sphere) gave us the term, atmosphere. The main constituents of the gaseous mass are, by volume: nitrogen 78%, oxygen 20% and argon 1%. The atmosphere is defined not only by gaseous content but is also divided into layers, one atop the other much in the manner of the layered skin of an onion. The line of demarcation between layers is the difference in temperatures.

The troposphere, the first layer, rises to about 7 miles in the middle latitudes, 5 miles at the poles and 11 miles at the equator. The temperatures here drop on the average of about 3.6 degrees for each 1,000 feet, and temperatures as low as -80 degrees Fahrenheit have been recorded near the roof of the troposphere. Suddenly, in the next layer, the stratosphere, which extends to a height of 30 miles, the temperatures start to climb again until they reach 86 degrees Fahrenheit at the boundary with the next layer, the mesosphere. Temperatures in the mesosphere drop again until at 50 miles high the thermosphere is encountered where temperatures rise again to a distance of 300 miles above the Earth's surface.

The information cited above, although pertinent enough in order for one to acquire a technical understanding of the gaseous mass, always impressed me as being very cut and dry, i.e., as being a somehow too static, rigidified description of nature. Even the explanations of the more dynamic thermal processes which supposedly are the *cause and effect* of the vigorous movement and formation of weather systems, left me perplexed. Something was missing. When, some years ago, I first became acquainted with orgonomy, the ingredient, which is omitted in our traditional education, was found. I read in his published works that he, Dr. Wilhelm Reich, had discovered that the atmosphere is essentially an orgone energy envelope. This fact appealed to my intellect but even so I

would not accept it on hearsay. I wanted and needed physical proof on which to build a fundamental comprehension of this mass-free energy continuum. Hence I embarked on a journey of exploration that has since changed me and my view of the universe.

I have a vivid recollection of the brisk, bright autumn day on which I decided to put Reich's theory of the atmospheric orgone energy to the test. Today, in retrospect, this incident seems rather naive and amusing to me but at the time I took the matter very seriously. I had decided that if my attempt to *see* the orgone energy failed, then I would have to doubt its very existence.

I live in the metropolitan area about 15 miles southwest of New York City. This area is densely populated and heavily industrialized. The air here has more than its fair share of pollutants and when we experience an extended period of temperature inversion, the smog is toxic. Even on a clear day, atmospheric conditions are far from ideal. Since I thought that the observation of orgone energy depended upon the optimum clarity and purity of the air, I figured that I would have to leave my urban confines. I drove 50 miles south to Sandy Hook State Park on the New Jersey coast.

The sky there was a deep blue and not a single cloud drifted across its expansive dome. The sand and pebble beach basked in the warmth generated by the sun and the dark green water of the Atlantic Ocean shimmered with light. White-crested waves surged onto the shore and lapped at my feet as I walked along the shoreline. This tranquil, relatively unspoiled habitat was in sharp contrast to what could be seen in the distance on the northern horizon. There an ugly, dingy brown air bubble hung over the skyscrapers and smokestacks that protruded from the islands of the great metropolis. It was enveloped in a perpetual shroud of industrial effluents and exhaust fumes. I turned my back on the distressing sight and got on with the task at hand.

The view of the eastern horizon was unobstructed. The firmament converged with the sea and they both stretched into infinity. I focused the binoculars and peered into the distance. I squinted and stared but I saw nothing unusual. I scanned the horizon for at least an hour. The only thing I managed to spot was the faint outline of the hull of a passing oil tanker. I finally dropped the instrument and looked around with unaided eyes. I looked up at the zenith and at the horizon in every direction. I tried long and hard but the visual phenomena that I had expected to see were absent. I was baffled, discouraged and weary. It was mid-afternoon when I flopped down beside a sand dune. I felt exhausted and soon dozed off.

I awoke after a catnap of about half an hour. I leaned back, stretched and calmly gazed into the sky. I did not try to see anything in particular. I just relaxed. Then it happened. The sky was literally alive with small, illuminating whitish dots. They bobbed, weaved, spun and spiraled apart and together in all directions. A shiver of excitement coursed through my body as I began to realize that these were precisely those orgone energy units that Wilhelm Reich had so often described in his research papers. I watched their whirling dance and constant motion with supreme delight. I felt satisfied and content and I anticipated the adventures that lay ahead.

I wondered, on my way back to the suburbs, why it had been so difficult for me to see this omnipresent phenomenon. I had a strong hunch, a correct hunch as it turned out, that my ambition to secure tangible evidence of the existence of the orgone energy had spawned some anxiety. I had tried too hard to get results. My eyes and optic nerves were unduly strained. It was only after I had rested that I was biophysically able to see the effervescent *orgonules*. Once back home, I gazed up at the tainted atmosphere. Even here, the busy, energetic orgone units were visible. "People have the physical ability to see the atmospheric orgone energy", I thought. We are, though, reluctant and perhaps even afraid to do so. A pseudo-scientific explanation such as subjective "bad seeing" or "entoptic phenomena" is all too readily accepted by us. *The life energy simply does not fit into our cultural blueprint!*

The stars, at night, are seen to flicker. Since we purposely construct observatories at high altitudes in order to eliminate this phenomenon, we know that the star itself does not scintillate. Then what is the cause? Mechanistic science attributes scintillation to the curvature of light rays in the gaseous mass. It claims that as the light passes through the irregular fluctuations in density of the atmosphere (densities which vary because of the temperature gradients in the atmospheric layers) it is bent and we see a flicker. Such a theory suffices for those who shut their eyes to the orgone energy envelope.

Here are a few more well-documented aspects of atmospheric scintillation:

- 1.) Flickering (= scintillation) increases in the dusk.
- 2.) Scintillation is least prevalent near the zenith.
- 3.) The closer to the horizon that a star is; the more it flickers.
- 4.) Flickering becomes stronger in the vicinity of clouds.
- 5.) In general, scintillation increases with low barometric pressure, low temperature and intense humidity.

These diverse phenomena are all forced into the temperature difference (= air density) format by meteorologists. When observations do not fit into the "established theory", 'illusion' and 'peculiar atmospheric conditions' are pulled out of the proverbial hat. In orgonomy, observation gives birth to theory and not vice versa. Let us examine how the points listed above relate to the observed functions of the orgone energy continuum.

The orgone energy envelope contracts toward the Earth's periphery at night. The concentration (= density) of the atmospheric orgone energy increases. The peak of this process occurs at dusk when the direct excitation from the sun ceases. The scintillation of the stars is logically most pronounced during this phase, i.e., when the OR energy envelope and its moving waves are most dense. This, then, is the apparently inexplicable 'peculiar atmospheric condition' which the mechanist alludes to. When you look at the stars near the zenith, they hardly flicker at all because you are looking through the thinnest sector of the atmospheric orgone envelope. When, on the other hand, you look closer to the horizontal plane the stars flicker markedly because you look through a more extensive and cumulatively more dense OR envelope. I would ask the attentive reader to recall Reich's searchlight experiments.

The light beam was observed to be longer in the horizontal position than in the vertical position; this effect also being due to the *thinness* of the OR envelope. The strong scintillation in the vicinity of clouds is to be expected since clouds are in essence high concentrations of orgone energy and water vapor. Energy phenomena, which include flickering, are more intense near clouds than in the areas of equal, less concentrated OR energy distribution. Finally, low barometric pressure, low temperature and intense humidity together indicate a general, overall contractive tendency in the atmospheric OR envelope. When this tendency is combined with the inevitable contraction of the OR envelope at night, scintillation is naturally heightened.

EXPERIMENTS WITH THE ORGONE ENERGY ACCUMULATOR

Two of the fundamental interactions between orgone energy and matter are:

- 1.) Organic material of every kind attracts orgone energy and absorbs it.
- 2.) Metallic material, especially iron, attracts orgone energy but then repels it again quickly.

It is upon the solid foundation of these principles that we are able to construct an apparatus which will *accumulate* and *confine* orgone energy. This apparatus, the *orgone energy accumulator*, was devised and used experimentally by Dr. Reich. It is a basic tool of ergonomic research.

"The orgone accumulator consists of a casing of organic material; wool, or preferably celotex, etc. The inner wall is lined with a thin layer of sheet metal. This arrangement makes possible a concentration of atmospheric orgone energy much greater than the usual atmospheric concentration." [1]

Let us try to obtain a clear scientific perspective of this process of orgone energy accumulation. To begin with, the six-walled, box-like apparatus has its existence, like everything else, in an orgone energy substratum. The mass-free, motile orgone energy can be said to be evenly distributed or concentrated in the near proximity of the unassembled apparatus. However, as soon as the apparatus becomes operational, i.e., when it is fully assembled and an area of open space has been separated from the orgone energy continuum within its four walls, this energy equilibrium changes. The organic outer walls begin to strongly attract and absorb the free atmospheric OR energy. The absorbed energy is then attracted by the inner metal wall. Although metallic material both attracts and repels orgone energy, significant amounts of energy do penetrate the thin iron sheet. This energy is radiated into the enclosed space, whereas the repelled energy filters back into the organic outer layer. It is obvious that while the mobile orgone energy is blocked by the outer wall, it can move unimpeded into the inner open space. Therefore, taking the path of least resistance, orgone energy flows from the outside into the inside.

The basic functioning principle (BFP), the *ergonomic potential*, governs the process once the enclosed space becomes sufficiently charged with atmospheric orgone energy. To reiterate: ergonomic potential dictates that the highly charged, stronger system attracts and draws to itself energy from the lower level, weaker system.

We have, in effect, constructed an artificial, man-made orgonotic system. The reader will recall that an *orgonotic system* is composed of a nucleus, a periphery and an orgone energy field. The orgone energy accumulator has a measurable field, the walls are its periphery and the charged, enclosed space constitutes the nucleus or core of the system. When the capacity level of the apparatus has been reached, it will maintain a *dynamic equilibrium* through the *energy metabolism of charge and discharge*. The orgone energy metabolism of the accumulator is, like that of any other nonliving orgonotic system, governed by the *energy formula*:

attraction > charge > discharge > radiation

When Reich first began to experiment with the orgone energy accumulator, he was still uncertain about the precise nature of this all-pervasive energy. Is it really an entirely new form of energy? Is it an energy unknown to classical physics, or is it merely a manifestation of electromagnetism? These were questions that needed to be answered. He confronted the problem in the following manner.

A large, man-sized apparatus was constructed in the basement of his house in Forest Hills, N.Y. A Faraday cage was then erected outside of the accumulator's sheet metal walls. A Faraday cage is made up of copper wire mesh. The area enclosed by the cage is supposed to be rendered free of electromagnetic fields because all EM waves that converge upon it from an outside source are intercepted by the wire mesh and are grounded. Reich, having eliminated the effects of electromagnetic energy, entered and sat in the completely darkened apparatus. Distinct, moving light phenomena were visible after his eyes had become accustomed to the darkness. The subjective impressions included:

- } "Foglike vapors of blue-gray that wafted across the interior.
- } Light dots that seem alternately to expand and contract as though pulsating. The light dots that fly past follow a spinning wave trajectory. The blue-violet dots seem to come from the metal walls in rhythmic intervals.
- } After two or three hours in the cage, we notice a blue-gray sheen around our white coats. The contours of another person can be made out, blurred but plainly visible." [2]

There was no longer any doubt that a radiant energy existed in the accumulator; an energy that is not electricity. Orgone energy was indeed, a new, unknown energy. The task was now to obtain a clear knowledge of its quantitative and qualitative properties. This is made possible only when objective data can be collected and analyzed. The use of a reliable instrument, that is, one that will measure some parameter of the energy with accuracy, is required. The oscilloscope, ammeter and voltmeter are wholly inappropriate in the realm of electricity but they are not directly applicable for the investigation of orgone energy functions. Orgonomy either had to find or invent a tool that would measure orgone energy attributes. Reich, during his incisive *bion* research had observed the following:

"I had begun reproducing well-known electroscopic phenomena obtained from friction between various materials. One day I started to set up an electroscope experiment involving high voltage. For insulation, I put on a pair of rubber gloves kept in a glass cabinet in my laboratory. When I brought my hands near the electroscope, there was a strong deflection of

the leaf. It curled upward, shifted sideways toward the glass wall of the electroscope, and stuck to it. I knew, of course, that insulators can be "charged". What was really astounding was the sideways deflection of the leaf and its tenacious adhesion to the glass wall, i.e., the fact that the non-magnetic aluminum was sticking to the glass, which was an insulator and had not been subjected to friction.. Then I realized that the gloves had been lying near a number of SAPA (bion) cultures... The rubber glove that had been exposed to the open air for about 15 minutes did not influence the electroscope. Whereas the previously neutral glove, placed for one half hour with the cultures, did in fact show a strong electroscopic reaction." [3]

These facts will not fit into the confused, nebulous theory of "static electricity". They together with many other ergonomic disclosures have established that "static electricity" is a specific function of the atmospheric orgone energy. It follows from this conclusion that the electroscope, which supposedly measures "static electricity", actually measures orgone energy. An instrument that is so necessary for a detailed study of atmospheric orgone and of the OR accumulator in particular, had been found.

As is so often the case, the solution to one problem immediately gives rise to a host of other difficulties. Here, in this instance, although Reich had procured an orgonometer, he still had to find out exactly what attribute of orgone energy the electroscope did measure. We will have to review the mechanistic interpretation of the electroscopic function and compare it with ergonomic insights before we solve this riddle.

An electroscope consists either of a piece of gold (or aluminum) foil hanging from the side of a metal support rod or of two gold leaves suspended from the base of a metal rod. The rod and leaves are enclosed in a protected space such as a stoppered glass flask. The metal support, which extends through the cork stopper, can, according to the theory of "static electricity", be given an "electrostatic" charge by touching it with a piece of rubber that has been rubbed against wool. The charge distributes itself evenly throughout the metal rod and the gold leaves. Since the leaves are charged with the same sign, e.g., (+), they are repelled from one another and stand out at an angle. The severity or degree of the angle depends upon the amount of charge imparted to the electroscope. Under normal circumstances air does not conduct electricity; so there is no place for the charge to go. Theoretically, the leaves should stand out stiffly at this angle forever. However, when an electroscope that is charged in this manner sits idle for a while, the gold leaves begin to droop and they slowly return to their original collapsed position. The electroscope has lost its charge. Where has the charge gone to?

When x-rays shine on an electroscope it loses its charge quickly. Radioactive elements, like radium, cause a rapid discharge. X radiation and gamma rays penetrate easily through the glass flask and ionize the air molecules. Since "ions" conduct electricity, they carry away the charge from the leaves. Perhaps, then, the very slow but inevitable discharge is caused by the small amount of X radiation and radioactivity present in the atmosphere. This explanation was shown to be inadequate. A series of experiments demonstrated that when an electroscope is shielded by walls of thick lead, walls thick enough to prevent the

transmission of x-rays emitted by radon, the rate of discharge did slow down but no amount of shielding stopped it entirely. The mysterious radiation that is possessed by electroscopes that are discharging has extraordinary powers of penetration.

Austrian physicist, V.F. Hess, took an electroscope up in a hot air balloon. The rate of discharge began to increase with altitude until at an elevation of 16,000 feet the electroscope was losing its charge four times faster than it had at sea level. It seemed to Hess that he must have been traveling toward a source of radiation. He reached the daring conclusion that very penetrating rays were coming from outer space.

R.A. Millikan found that the rate of discharge increased regularly with increasing altitude and decreased with depth under water. He named the mysterious radiation cosmic rays, "cosmic" because they came from space or from some unidentified place in the cosmos. Cosmic rays are not a form of radiation. They are fragments of matter, viz., "ions", rocketing in from outer space with velocities exceeding anything previously known. They cause the ionization for the "natural leak" of electroscopes. This, then, is the mechanistic viewpoint.

Reich, initially, accepted the premise that the electroscope discharges more rapidly in strongly ionized air. Therefore he concluded that the following possible results might be expected when electroscopic discharges are measured outside and inside the OR accumulator.

- 1.) "The electroscope discharges with equal speed inside and outside the orgone accumulator. This would mean that no difference exists between the charge in the air inside the apparatus and the charge outside it. Thus there is no greater accumulation of atmospheric orgone inside.
- 2.) The electroscope discharges more rapidly inside than outside the orgone accumulator. This would mean that the air inside the apparatus is more strongly "ionized" than the air outside; i.e., it contains more negative (-) electric charges (= electrons). Our orgone energy would then be identical with negative electricity.
- 3.) The electroscope discharges more slowly inside the orgone accumulator than outside it. This would imply that orgone energy is something other than negative electricity. It would then be necessary to explain the slower discharge of the electroscope inside the accumulator in order to conclude that the electroscope is registering a concentration of orgone energy.

The fact is that the electroscope discharges more slowly inside than outside. We conclude:

- 1.) The energy tension inside the accumulator is different from that outside it. This implies a difference in potential between the inside and the outside. What we do not know is whether the potential is higher inside than outside or the reverse.
- 2.) The energy within the apparatus cannot have its origin in a stronger ionization of the air inside: otherwise the electroscope would discharge more rapidly inside, not more slowly.
- 3.) The energy is present in the air inside and outside the apparatus, but in different concentrations, as is demonstrated by the difference in discharge... We now feel justified in considering

the following assumption: The lower the energy tension of the air is, relative to the charge of the electroscope, the more rapidly will the electroscope release the energy with which it is charged. The higher the energy tension of the surrounding air is, i.e., the smaller the difference between the energy tension of the electroscope and that of the surrounding air, the more slowly will the electroscope discharge.

This assumption is in accord with the laws of energy in general. Water flows faster between two vessels positioned one over the other the greater the height between the two. The speed of the flow depends on the steepness of the drop, in other words, on the extent of the difference in positional (= potential) energy. *The metallic plate of the electroscope can discharge more rapidly into air of low energy tension than into air of high tension.*

This characteristic of our energy is new. It is not explained by ionization: the electroscope would discharge more rapidly in air with a high electrical charge. The fact that this energy *cannot, therefore, be electricity* is inescapable.

Our energy behaves differently than electricity. The speed of electroscopic discharge depends solely upon the atmospheric energy tension which, in turn, is determined by the density or concentration of orgone particles per cubic unit of air.

As our observations have shown, the energy in the apparatus is more concentrated than in the open air. The designation "accumulator of atmospheric energy" is therefore accurate.

In theory, electroscopes should not lose their charge. The fact is, however, that they do spontaneously discharge. This phenomenon is called by physicists "natural leak" and is ascribed to the humidity of the air. Thus, we are in reality measuring the phenomenon designated as the "natural leak" of the electroscope." [4]

The specific parameter of the orgone energy that the electroscope (= orgonometer) measures is therefore the tension of the atmospheric orgone. This tension or cohesiveness is a qualitative function of the orgone energy which is determined by the quantitative factor, i.e., the density or concentration of the orgone energy.

Let us summarize the diverse findings of electroscopic experimentation and see how they relate to the known functions of orgone energy.

- 1.) Electroscopes lose their charge 4 times faster at an elevation of 16,000 feet than they do at sea level.
- 2.) When the electroscope is enclosed by thick, lead walls; it discharges slower.
- 3.) Electroscopes discharge faster during and before the onset of rain.
- 4.) The rate of discharge increase with high humidity.
- 5.) An electroscope discharges more rapidly in the early morning and late evening than it does at midday.

The orgone energy envelope, like the gaseous atmosphere of the Earth, is not uniformly dense. Just as the air thins out when we reach the

higher altitudes, the orgone energy becomes more diffuse, less dense the farther away it is from the Earth's core. Since organotic tension depends on the concentration of orgone energy; the tension will be strong near the planet's surface and will weaken farther out. Thus, the electroscope, predictably and logically, discharges faster at 16,000 feet than at sea level.

Lead is a metal. Any metal enclosure is *ipso facto* an orgone energy accumulator. An electroscope will, of course, discharge more slowly within the confines of a thick lead casing.

The orgone energy envelope expands as a result of the intense solar excitation that reaches the earth during fair weather. An expansive atmosphere goes hand in hand with strong organotic tension. Conversely, the orgone energy envelope contracts when a storm system diminishes the effect of the sun's excitation. A contractive atmosphere goes hand in hand with weak organotic tension. The massive, extensive build-up of clouds before the onset of precipitation disrupts the cohesiveness of the OR energy continuum. Cloud formations, i.e., high concentrations of orgone energy and water vapor, withdraw vast quantities of free, unbound orgone energy from the atmosphere. The subsequent rainfall leaves no room for doubt that the atmosphere is in a state of discharge. The electroscope, in harmony with these atmospheric processes, discharges faster before and during rain than it does under fair weather conditions.

Water strongly attracts and holds orgone energy. When the humidity of the air increases, the free, unbound energy content of the atmosphere is depleted. The mass-free energy substratum becomes inundated with minuscule drops of water vapor. If relative humidity exceeds 50%, the density and cohesiveness of the atmospheric OR energy decreases and organotic tension weakens. The electroscope, as a result, discharges at a rapid rate under the influence of high humidity.

Solar excitation of the orgone energy envelope reaches a peak at noon. The intense radiation and the high concentration of orgone energy at this time of the day increases organotic tension. The electroscope, as expected, discharges more slowly at midday than it does in the early morning or late evening because of this enhanced organotic tension. The mechanistic "static electricity" hypothesis fails abysmally in any attempt to provide an explanation here. The air in the morning and in the evening is certainly not more "ionized" than at midday. If anything, a maximum ionization of the air should occur precisely at midday when solar radiation is most intense. We must conclude that while electroscopic reactions occur in direct opposition to the ionization theory, they are in complete accord with observable OR energy functions.

The acquisition of an instrument that allows us to measure an objective quality, viz., the tension of orgone energy, also provides a means to determine exactly how much orgone is accumulated in the apparatus. Since the degree of organotic tension has a well-defined relationship to density; this latter quantity can be derived when the former quality is known. The procedure used to figure the amount of orgone energy that is concentrated in the accumulator is as follows:

We charge two identical electroscopes. To charge the *organometers*, we stroke a cellulose disc or polystyrene rod over the hair without rubbing.

This orgonotic charge is applied to the metal rods of the electroscopes until the leaves of both instruments deflect to equal angles. It must be pointed out here that dry hair and low relative humidity are prerequisites for this type of charging. We could, under adverse conditions, charge the electroscopes with electrical voltage. I remind the reader that we consider electricity to be a *secondary* manifestation or transformation of the primordial orgone energy. Direct orgonotic charge, however, is preferable and much more efficient. It is interesting to note the fact that one gentle stroke of the hair will yield energy amounts equivalent in effect to literally hundreds of volts. One charged electroscope is now placed into the accumulator while the other is left out in the open atmosphere. The time it takes for each instrument to discharge is recorded. The ratio of the rates of discharge of each will give the data we seek, namely, the concentration of orgone energy in the accumulator as compared with the concentration of orgone energy in the atmosphere. For example, if the electroscope in the open air discharges in one hour and the electroscope in the accumulator discharges in two hours; we have a ratio of 1 : 2. This reveals the fact that the concentration of orgone energy in the accumulator is twice that of the atmosphere.

This proportion can be significantly increased when an accumulator with multiple layers is constructed. A *three-layer* OR accumulator can triple the concentration of atmospheric orgone. An outer wall of organic material together with the inner metal lining is defined as being one layer. There may be any number of layers just as long as the sequence, viz., organic-metallic, is maintained from one layer to the next. It is important to understand, again, that orgone energy functions are dynamic and not mechanical. Orgone concentration, in this instance, will not increase with the number of layers in a linear fashion, i.e., a six-layer accumulator will not automatically be twice as strong as a three-layer accumulator.

The orgone energy accumulator, like the Earth and the sun, constitutes a nonliving orgonotic system. The nonliving orgonotic system is governed by the energy formula: attraction > charge > discharge > radiation. Orgonotic tension and mass-free OR energy concentration are generated by and find expression in the attraction > charge phase of the energy metabolism. These functions dictate that a confluence of energy will occur which, in turn, induces orgonotic tension and charge. This side of the energy metabolism embodies the dominant, creative function of primordial orgone, i.e., the basic functioning principle (BFP) called orgonomic potential. The discharge > radiation phase becomes possible only after the orgonomic potential has provided the basis for its existence. This side of the energy metabolism represents the mechanical potential. Therefore, when the OR energy accumulator is charged, i.e., when the orgonotic tension and energy concentration are high, OR energy is radiated by the artificial, man-made orgonotic system. The heat that, in contravention to the second law of thermodynamics, is seemingly generated from "nowhere" within the accumulator is incomprehensible and mystifying to the physicist who is oblivious to the orgone energy continuum and to the orgonomic potential.

"The metal walls of our orgone accumulator are "cold". If we hold the palm of a hand or our tongue at a distance of about 10 cm. from the metal wall long enough, we will experience a sensation of warmth and a

delicate *prickling*. In addition, a salty taste is detected on the tongue. If we put a thermometer in the same place, or better still, above the top of the accumulator, and a second thermometer outside the accumulator, we notice to our surprise, a difference of 0.2 to 0.5 degrees Centigrade compared with the room temperature. Neither the subjective feeling of warmth nor the temperature difference as measured objectively can be due to the "heat" radiated from the wall, since the temperature on the metal wall is lower than the temperature at a distance of up to 10 cm. from it. And there are no sources of heat on the wall or behind it, under the accumulator or inside it. We are therefore obliged to risk an hypothesis and see where it leads.

We know that radiation in general consists of *moving energy particles*. Let us therefore assume for the moment that the cold metallic walls of the accumulator radiate or reflect energy. We must assume the following: If we hold the palm of our hand or a thermometer at a distance of 6 to 10 centimeters from the wall, we block the movement of the energy particles. *When the kinetic energy of the particles is blocked, it manifests itself as a sensation of warmth or as an objective rise in temperature as registered by the thermometer.* This hypothesis is completely in accord with the physics of all radiation. The blocking of electrons flying from the cathode of an x-ray tube toward the anti-cathode generates warmth and light phenomena." [5]

I decided, in the summer of 1977, to construct an orgone energy accumulator. I wanted a man-sized apparatus within which one could experience firsthand the heat and the other phenomena that Reich had documented. I started the project from scratch. I drew up the blueprints, selected the proper materials, estimated the quantities needed and purchased them. It took me a little more than a week of steady, hard work to build and fully assemble the OR accumulator.

The dimensions of the accumulator are: 2.5'x 2.5'x 5.0', that is, the front, back and two sides are 2.5 feet wide and the overall height is 5.0 feet. It is a three-layer accumulator which means that there are three distinct alternating layers of organic-metallic material. The exterior walls are made of one-quarter inch multi-colored plastic panels. Reich found that some organic materials absorbed and transmitted orgone energy better than others. Celotex is better than wood and plastic is preferable to celotex. I chose, in order to secure good results, despite the added expense, plastic panels.

The interior walls of the apparatus are lined with solid, i.e., seamless, sheets of thin 30 gauge galvanized iron. The type of material used for the enclosed space is critical. Experiments, thus far, have disclosed that *only iron* is appropriate and safe in an orgone energy accumulator that is intended for human use. Sandwiched between the outer plastic panels and the inner metal walls are steel wool / fiber glass layers. The structure of the top and base is the same. The front wall has a window opening for light and air circulation. This front wall functions, since it is attached to one side with hinges, as a door. When a portable hence is inserted, one can sit comfortably within the confines of the accumulator and experience the orgone energy irradiation.

I had some inkling of what to expect because I was already familiar with the energetic effects of the orgone energy blanket. I had, years

before, inlaid a thick wool blanket with a layer of steel wool. Whenever I was unduly fatigued or on the verge of a cold, I would wrap myself in it for an hour. I always felt somehow *invigorated* afterward and I have not suffered from a serious cold. The penetrating warmth and the prickling that I sense are the subjective perception of the objective orgone energy emanation from the blanket. This fact has been verified many times by the similar biophysical reactions of many other people who were asked to cover themselves with the blanket. These people were not conversant with orgone energy phenomena. When the blanket was kept on long enough for the accumulation and radiation of orgone energy to occur, descriptive phrases such as "prickling sensations", "soothing warmth", "tingling feeling", and 'some kind of electricity' were volunteered. The intensity of the radiation even made several individuals uneasy. I, myself, once felt some discomfort after I had fallen asleep under the blanket. I belched continually for about an hour. It was clearly a case of overexposure which was subsequently relieved by a short jog in the fresh air.

I had to postpone an initial trial of the OR energy accumulator because of rain and excessive humidity. The day finally arrived when the water vapor content of the air dropped and the skies cleared. We moved the accumulator into the open. It was left outside in the bright, warm sunshine and allowed to fully charge throughout the day and night. The following afternoon at 1:00 PM I entered the apparatus. This was the period of maximum solar excitation and the presence of a slight breeze and the cloudless blue sky were definite indications that the OR energy envelope was in a state of expansion. I looked through the open window and smiled, satisfied that these were optimum conditions for the accumulator. I was confident and expected immediate results.

I sat for at least an hour and waited for something positive to happen. I could neither detect a physical change in myself nor did I feel any unusual sensations. I began to feel silly sitting in an apparatus which either had structural defects or was based on an incorrect theory. I left its confines chagrined and puzzled. I went back to the drawing board. There I discovered that while the construction and the theory of the OR accumulator were correct; my personal approach was still too mechanical.

To begin with, the effects of orgone energy irradiation become apparent only when there is *contact* between the orgone energy fields of the organism and the accumulator. Before this contact can occur, one should be as close as 4-8 inches from the walls of the apparatus. When this contact is established, there is a *mutual excitation* of the respective orgone energy fields. It came to mind that I had sat hunched at the center of the accumulator. Consequently, most of my torso was too far removed from the walls. In addition, "Lively persons feel the effects of orgone energy in the accumulator far more rapidly than do sluggish individuals. The former have a more extensive orgone energy field than the latter. Thus, contact between the orgone fields of their bodies and that of the inner metal wall is established far more rapidly and easily. Orgonotically sluggish individuals begin to notice the effects of orgone radiation in the accumulator only after several irradiations. There can only be one explanation for this phenomenon: the organism itself must be charged passively to a certain minimal degree and its own orgone radiation intensified before subjective perception of the orgone effects is possible." [6]

The very next afternoon I entered the OR accumulator again. I wore only swim trunks to insure maximum tactile sensitivity. I sat with my legs, arms and back in close proximity to the walls. I began to feel relaxed and *enlivened* by the atmosphere inside the apparatus. Gradually tingling sensations could be sensed on my chest and legs. After about a half hour, perspiration wet my underarms and chest. It was not a sweat brought on by physical exertion or by nervousness. Whenever I passed my open hand along the surface of the metal walls at a distance of about 2 inches, prickling could be felt on the palms. There was a distinct energetic tension that at times could be felt flowing up my arms. I emerged from the OR accumulator feeling refreshed and satisfied after about forty-five minutes of orgone irradiation. I was convinced that Reich's claims about the potential therapeutic and health benefits of the OR energy accumulator were wholly valid.

One day I had three separate half hour sessions at three hour intervals in the OR accumulator. I noticed, after the second session, that my eyesight seemed to have improved. I thought that this might be strictly a subjective impression but since then several other individuals, who also used the accumulator, have commented that an enhancement of visual acuity does seem to occur. This effect is not permanent but reverts back to usual again once the orgone energy charge of the eyes wanes. This finding led to an interesting experiment, the details of which I will recount shortly.

The effects of the OR accumulator are definitely cumulative. In other words, the level of the organism's bio-energetic charge is strengthened when the living organotic system receives regular, consistent orgone energy irradiation. This fact and many others were revealed as a direct result of the repeated orgone energy charges that I received on this particular occasion. My skin literally began to tingle with energy. When I combed my hair, one could hear the loud crackle of "static electricity". My organism's orgone energy field was intense and considerably extended. I confirmed this by a simple test. I slowly approached our TV set while it was on. The sound and picture were disturbed at a distance of 8 feet away. Reich's investigations had disclosed, "that all electromagnetic energy is different from and antagonistic to orgone energy." [7] Hence, I could logically assume that my bio-energetic field had demonstrably interfered with the reception of these EM waves.

I passed a comb through my hair and thereby imparted an organotic charge to it. I had, beforehand, cut out several 2 inch length pieces of paper that were now lying strewn atop a table. When the charged comb touched a piece of paper, this paper was attracted and clung onto the comb. I swung the comb about but the paper stuck tight. The paper extended an inch below the teeth. I brought the comb close to me and proceeded to move it up and down along the axis line in front of my body. To my surprise the piece of paper bent in toward the body at certain, specific locations. These areas of attraction were situated in the pelvis, abdomen, chest, neck and head. I was amazed and baffled by these phenomena until I consulted an anatomy chart. The fact is that these points of strong attraction correspond exactly to the positions of the major ganglia of the autonomic nervous system. If I ever had any doubts in reference to the veracity of Dr. Reich's scientific formulation of the living organotic system; this unequivocal observation put them all

to rest. We remind the reader that the autonomic nervous apparatus is the nucleus of *bio-energetic core* of the human organotic system, i.e., the strongest orgone energy component in the organism. Therefore it can be expected that an autonomic plexus, due to its high ergonomic potential, will exert more attraction than does the organism in general.

DOWSING AND THE INTERACTION OF BIO-ENERGETIC FIELDS

Long before I had ever heard of Wilhelm Reich or read anything in reference to the life (= orgone) energy, I was intrigued by the practice of dowsing. I befriended, while I was a student of forestry in Ontario, Canada, a man who was very adept at discovering water by dowsing. He is an intelligent, energetic, and above all else, a practical individual who is not at all disposed toward the occult or mysticism. I point this out since many people still refer to dowsing as "divining", a term which carries with it a mystical connotation. As a matter of historical fact, Martin Luther in 1518 specifically included the use of the "divining" rod in his list of acts that break the first commandment. Ernie holds down the responsible job of building supervisor for a large construction firm. He works with blueprints and technical data and has neither the time nor the patience for the esoteric or abstract. There is nothing mysterious, in his mind, about the ability of the *healthy* human organism to detect sources of water deep beneath the surface of the ground. Dowsing worked and therefore he considered it to be a natural phenomenon. Although he could not offer a scientific explanation for his "talent", he felt no need to wrack his brains for an answer. He was interested in results and he usually got those results. The two fresh water wells that he had located by dowsing on his lakeside cottage property attested to that. As Ernie said, "I was born and raised in the rugged Harz mountains of central Europe. I breathed the thin, crisp air and drank the crystal clear water of that wilderness region during my childhood and youth. It was a hard, simple life but I think I owe my strength and vitality to those conditions. I feel really good and content only when I'm away from the city. I can dowse simply because I'm more in harmony with nature than most other people are."

One summer weekend I persuaded Ernie into giving me an actual demonstration of dowsing. He was rather hesitant to display his ability because he knew that it could not be forced. There had to exist a certain harmony within the organism and a rapport between man and nature. He was most effective when alone and unencumbered by mundane worries and thoughts. He remembered the time when he attempted to "prove" dowsing to an audience of his co-workers. Try as he would, all efforts came to naught. It seems that the light-hearted, yet mildly disparaging remarks and guffaws from his 'sophisticated' colleagues had created an inhospitable atmosphere wherein any sort of harmony was suffocated. Since then Ernie had refused to perform dowsing for anybody. He made an exception in my case because he recognized my genuine desire to learn.

The property that bordered on his cottage site was grazing land. A huge water trough for the farmer's herd of beef cattle stood in the middle of the pasture. Ernie proposed that we walk a hundred or so feet out from the trough and then he would dowse for the water pipe which leads to the trough. Ernie climbed onto the bough of a nearby willow tree and severed a forked (= V-shaped) branch. He cut the forked ends

down to a length of 12" and left the stem 8" long. The strong, flexible willow branch was his *dowsing rod*. I took a shovel in hand and followed him into the pasture.

When we were far enough away from the water trough, Ernie readied himself for the search. He clenched the forked ends in his fist in such a manner that his palms were facing up. The elbows were against this side of his body and the forearms were parallel to the ground and to each other. Ernie held the dowsing rod horizontal and steady. He asked me to stand in place while he circled the trough at a distance. I stood and watched in anticipation. Suddenly the free, stem end of the rod flicked sharply up and toward his body. I began to run toward him but he waved me back. I was dumbfounded. I thought that the reaction that I had just seen was the signal for water. A few minutes later, the dowsing rod flicked again but only slightly. Ernie motioned for me to walk to him and to dig at the spot where he now stood. I struck, at a depth of two feet, the metal water pipe. He explained that the first rod action was in response to an abandoned well which he had already known about. He had purposely approached it in order to test his ability. He then asked me to try my luck. I was, however, too anxious and failed at my initial attempts at dowsing.

I, unlike my friend, sought out a scientific explanation for the art of dowsing. The prevailing attitudes toward dowsing, from the official scientific viewpoint, are:

- 1.) The "talent" for dowsing does not exist.
- 2.) Dowsing is a result of self-delusion, i.e., it is a fraud.
- 3.) The dowser is merely using his five senses in a special way.
- 4.) There may be a series of frequencies within the infinite spectrum of electromagnetic waves that are capable of carrying information to the dowser.

While the first two attitudes completely dismiss the phenomenon, the third attributes the ability to dowse to the extraordinary sensory perception of a few 'gifted' persons. According to this thesis, good dowsers must have well-developed olfactory senses, i.e., a good "nose", so they can smell water from a distance, as some animals are able to do. Also, since many underground streams are audible to the human ear, dowsers probably possess extraordinarily good hearing. These rare people, consciously and voluntarily, direct the dowsing rod up or down when their senses have pinpointed water. The fourth approach to dowsing brings the concept of *energy* into the picture. Although this is a more rational speculation, it will fail to provide a solution because it is caught up in the narrow framework of electromagnetic theory.

Orgonomy, on the other hand, views dowsing as being a natural phenomenon that demonstrates the orgonomic contact between living and nonliving orgone energy systems. Let us examine this process in some detail.

Although it appears as if the dowsing rod and not the organism actually detects and reacts to subterranean water, this is easily disproved. Hence, when the forked branch is held too far out or lateral to the body, there is little or no reaction. The dowsing rod's position relative to the organism is definitely a determining factor in dowsing.

The fact that the strongest deflection from the horizontal occurs only if the rod is positioned in front of the abdomen makes sense to the student of orgonomy. The largest, most potent autonomic nerve ganglion, i.e., the *solar plexus*, is situated in the pit of the stomach. The significance of this in relation to dowsing becomes evident when we focus on the orgone energy metabolism of the phenomenon.

The human being, the dowser, is the living organotic system. The nonliving organotic system is composed of a nucleus (= core) of water, a periphery (= crust) of ground and an extensive orgone energy field.. When the dowser approaches the water, the bio-energetic fields of both systems make contact and mutual excitation takes place. The nonliving organotic system is governed by the metabolic energy formula:

attraction > charge > discharge > radiation

The living organotic system is governed by the metabolic life formula:

tension > charge > discharge > relaxation

In the former organotic system, the attraction > charge functions lead to a discharge and radiation of OR energy. In the latter organotic system, the tension > charge functions lead to a discharge of bio-energy and organismic relaxation. Here we may note that many dowsers report the sensation of tension in the abdomen. This occurs (due to the establishment of field contact and excitation between the two systems) when the bio-energetic core, viz., the solar plexus, is charged. The forked stick, at this point, is strongly attracted to the organism. The dowsing rod, with the subsequent discharge > relaxation process, returns to the horizontal. Our interpretation also seems to explain the reason why a dowsing rod will sometimes flick downward as well as upward. It has been observed that when the rod is held above the solar plexus, it turns downward; when the rod is positioned below the solar plexus, it turns upward. Clearly, the specific area of attraction is the potent autonomic nerve ganglion.

Reich once had occasion to observe a dowser and he himself thereafter participated in a dowsing experiment on his Orgonon estate in Maine. Here is a summary of his findings:

- 1.) "The dowsing rod does not move to the water, but -is attracted by the body of the dowser.
- 2.) Not the dowsing rod, but the bio-energetic life apparatus of the dowser reacts to the water in the ground.
- 3.) The attractive reaction of the dowser apparently depends upon the excitation of the bio-energetic system, which is accompanied by increased attraction in the organotic field surrounding the body.
- 4.) The organism and the water react upon one another as any two organotic systems with excitation and attraction.
- 5.) The dowsing organism must apparently be organotically vigorous in order to react with excitation to water and attract the dowsing rod.

In order to test the given interpretation of the function of dowsing, I had to be able to reproduce it also without the presence of water, if my explanation were correct, that the dowsing rod effect depends upon the excitation and attraction in the contact of two strong organotic systems, then the same effect must result if the organism approaches a strong orgone energy accumulator. This expectation was confirmed: The branch was attracted to my body when I stepped into the metal-lined orgone

energy room. The effect was strengthened, clearly and irrefutably, when I approached the *20-fold* orgone energy accumulator from the outside or when I sat in it." [8]

Reich had discovered that under the proper conditions a pulsating orgone energy field around a metal sphere could be demonstrated. He took a 6 cm. diameter iron sphere and placed it on a solid base. Then a smaller sphere, about 1 cm. in diameter, which he made of metallic and organic material (soil & iron filings) molded together with water and enclosed in a thin glass globule, was suspended pendulum-wise 0.5 cm. from the equator of a larger metal sphere. He observed that, "*In dry, sunny weather the pendulum sphere oscillates toward the center of the larger sphere, spontaneously.* When the relative humidity exceeds about 70%, or when it rains, the swings of the pendulum grow smaller until they stop altogether. They resume their spontaneous movement with the return of good weather. The swings of the pendulum will become greater if the observer's own organism has a strong and far-reaching orgone energy field." [9]

I repeated Reich's experiment and obtained the same results. In addition, I applied an observation, which I had gained from the use of the orgone energy accumulator, to the experiment. I remind the reader that one of the effects of concentrated orgone irradiation is a temporary improvement of visual acuity. I found that when, after a prolonged session in the OR energy accumulator, I concentrated my eyes on the metal sphere that the swings of the freely suspended pendulum sphere became greater. The bio-energetic field of the organism proper has the same effect but this increase in the atmospheric OR energy pulsation around the metal sphere was excited at distances far beyond the effective range of my body's orgone energy field. I had to conclude that a **VISUAL RAY** which functions organotically at-a-distance was the source of excitation. The subsequent verification, application and the vast implications of the *visual ray* will become evident in the next chapter.

R E F E R E N C E S

*** 3 ***

Epigraph: Wilhelm Reich, COSMIC SUPERIMPOSITION
(New York: Farrar, Straus and Giroux, 1973) pp 175-176

- [1] Wilhelm Reich, THE CANCER BIOPATHY
(New York: Farrar, Straus and Giroux, 1973) p. 109
- [2] Wilhelm Reich, THE CANCER BIOPATHY
(New York: Farrar, Straus and Giroux, 1973) pp 105-106
- [3] Wilhelm Reich, THE CANCER BIOPATHY
(New York: Farrar, Straus and Giroux, 1973) pp 87-88
- [4] Wilhelm Reich, THE CANCER BIOPATHY
(New York: Farrar, Straus and Giroux, 1973) pp 128-131
- [5] Wilhelm Reich, THE CANCER BIOPATHY
(New York: Farrar, Straus and Giroux, 1973) pp 112-113
- [6] Wilhelm Reich, THE CANCER BIOPATHY
(New York: Farrar, Straus and Giroux, 1973) p. 316
- [7] Wilhelm Reich, THE ORANUR EXPERIMENT, First Report (1947-1951)
(Rangeley, Maine: The Wilhelm Reich Foundation, 1951) p. 290
- [8] Wilhelm Reich, ORGONE ENERGY BULLETIN
(Rangeley, Maine: Orgone Institute Press, July 1951) pp 142-143
- [9] Wilhelm Reich, THE CANCER BIOPATHY
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PROJECT OCULAR CLOUD-BUST

"First of the organs they fabricated, the EYES, to bring us light, and fastened them there for the reason which I will now describe. Such fire as has the property, not of burning, but of yielding a gentle light, they contrived should become the proper body of each day. For the pure fire within us is akin to this, and they caused it to flow through the eyes. Making the whole fabric of the eye-ball, and especially the central part, smooth and close in texture. So as to let nothing pass that is of a coarser stuff, but only fire of this description to filter through pure by itself. Accordingly, whenever there is daylight around, *the visual current issues forth*, like to like, and coalesces with it and is formed into a single homogeneous body in a direct line with the eyes, in whatever quarter the stream issuing from within strikes upon any object it encounters outside... But when the kindred fire of daylight has departed at nightfall the VISUAL RAY is cut off. For issuing out to encounter what is unlike it, it is itself changed and put out, no longer coalescing with the neighboring air, since this contains no fire." - Plato

The structure of an ordinary living cell can be seen with the aid of a good microscope. At magnifications of 1,000x and less it is possible to examine the intricate physical details of the nucleus, cytoplasm, cell membrane, etc. When we increase the magnification to 2,000 - 4,000x, the detailed features are blurred but the bio-energetic vibrations within and beyond the cell can only now be distinguished. These movements, which are internally generated, are the direct manifestations of the primordial orgone energy function of pulsation, i.e., of alternating expansion and contraction. This bio-energetic pulsation is of paramount interest to orgonomy. The orgone energy field of the red blood corpuscle will reveal more about its health than what a strictly structural and chemical analysis of the same corpuscle will yield. This is the case because the overall biophysical health and potency of the living organotic system, erythrocyte, is unequivocally revealed in the pulsation of the orgone energy field. *Structure itself is governed and determined by orgone energy functions.* For instance, a firm, taut cell wall is in evidence only when an intense, wide OR energy field radiates from the cell's periphery. A slack, shrunken cell wall is present when the OR energy field is faint and narrow. The former condition coincides with a strong organotic charge and heightened pulsation while the latter condition coincides with a weak organotic charge and diminished pulsation.

The planet Earth, like the living cell, is an organotic system. We are not able to place the Earth on a slide and focus a microscope on it. However, its physical and chemical structure has been revealed for us by subterranean mining explorations and the technological exploitation of the Earth's surface. The subsequent widespread pollution of the oceans and the chemical contamination of the land and fresh water have in recent years caused us to reflect on the excesses of industrialization. The health of our planetary biosphere has become a topic of concern. The concept of *ecology* has begun to filter into our consciousness. We are beginning to realize that our survival depends not on the near-sighted, indiscriminate exploitation of our natural resources but rather on a

far-sighted plan that will conserve non-renewable resources such as oil and minerals and improve the production of the renewable resources, i.e., foodstuffs, forests and wildlife. Mankind must, in the meantime, hope that the greed and insensitivity of his mechanistic predecessors are things of the past and that the damage already done is somehow reversible.

Currently, the organotic system, Earth, is, according to sophisticated geophysical and chemical analysis, sick. Orgonomy fully acknowledges this dire diagnosis and moreover confirms it with the ominous data gained from the direct observation of the atmospheric OR energy field. The Earth, as seen from the vantage point of the moon or of an orbiting satellite, could be likened to a cell seen through a high magnification microscope. We have, thanks to the lunar landings of our courageous astronauts, obtained many color slides and films of the planet photographed from just this perspective. These exquisite pictures show a globe surrounded by a luminescent, light blue aureole. The planet floats on the dark waves of the infinite cosmic orgone energy ocean. Astronaut Edgar D. Mitchell describes the awesome panorama as he actually saw it: "The first thing that came to mind as I looked at Earth was its incredible beauty. Even the spectacular photographs do not do it justice. It was a majestic sight - a splendid blue and white jewel suspended against a velvet black sky. How peacefully, how harmoniously, how marvelously it seemed to fit into the evolutionary pattern by which the universe is maintained." [1] Notice that Mitchell describes the radiant blue orgone energy envelope with the white cloud clusters and not specific, gross geographical features. The vibrant, luminescent OR energy field, which is much more than just a layered, gaseous atmosphere, evokes emotion in the human being who is alive enough to forget momentarily his role as pragmatic engineer. It is this pulsatory life energy envelope that portends the health or disease of the nonliving organotic system, Earth.

The orgone energy envelope of the nonliving system differs from the orgone energy field of the living organotic system. The orgone field of a single cell or of an entire organism is the immediate expression of spontaneous inner bio-energetic excitation. The atmospheric OR energy envelope also expresses the dynamics of the Earth's energy metabolism. However, the periodic charge and discharge functions of the planet are stimulated externally, i.e., they receive their excitation from an external source, viz., the sun. In addition, the OR envelope is itself governed by the energy metabolism of charge and discharge.

The maintenance of an orgone energy equilibrium depends on the capacity for charge and discharge which is facilitated and made possible by the free, unhindered flow of orgone energy within the atmospheric OR envelope. For example, high and low pressure fronts continually move from west to east across the American continent. These constant charge functions (expansive, fair weather) and discharge functions (contractive, clouds and rain) can be considered a healthy OR envelope process. However, when a front stalls, i.e., when the movement of orgone energy is blocked, there arises a pathological, diseased OR energy process. These periods of "temperature inversion" and "air pollution crisis" are becoming more and more commonplace. Reich coined the term *DOR* (= Deathly Orgone) to describe orgone energy whose motility has been restricted. This stagnant energy is transformed from life energy into a

virulent mutant. It is the steady increase and build-up of DOR in the atmosphere that alarms me and has forced those conversant with the science of orgonomy to conclude that the OR energy envelope is disease-ridden.

DOR is most prevalent in the vicinity of the industrialized metropolitan areas. These are the regions where the carbon monoxide exhaust fumes from the cars and the noxious factory effluents pervade the atmosphere. Another major source of DOR is nuclear radiation. The erratic and pathological orgone energy metabolism of the OR envelope can be traced back to the first atom bomb test at Alamogordo, N.M. on July 16, 1945. Reich, in his *oranur* experiments (= orgone against nuclear energy) of the early 1950's, had investigated the relationship between primordial orgone energy and secondary nuclear energy. He found that they were two very highly antagonistic forces. "The irritation of OR by NR, even in minimal amounts, seems exorbitant. OR runs wild, as it were. The NR effect on OR has in its subjective aspects the taint of death... The otherwise benign OR splits off into a deadly branch (DOR)." [2]

We, who have dismissed the above warning as empty rhetoric, are the inheritors of a destructive legacy. The ultimate effects of prolonged disturbances in the Earth's OR energy metabolism can be seen in the formation of deserts. Our own southwest desert is a good example. It grows by leaps and bounds yearly. These barren wastelands that lie sun-baked and dehydrated beneath an immobilized, DOR-laden pocket in the atmospheric OR energy envelope mirror the desolate, power hungry nature of those who are uplifted by the development of a life-inimical energy and a weapon of mass annihilation. A brigadier general was very inspired by the nuclear blast at Alamogordo. He composed the following lines: "In that brief instant in the remote New Mexico desert, the tremendous effort of the brains and brawn of all these people came suddenly and startlingly to the fullest fruition... It lighted every peak, crevasse and ridge of the nearby mountain range with a clarity and beauty that cannot be described but must be seen to be imagined. It was that beauty the poets dream about but describe most poorly and inadequately." [3] Exactly three weeks later this thing of beauty demolished the city of Hiroshima and massacred hundreds of thousands of people.

The primordial orgone energy functions are severely distorted in an OR envelope which is infested with DOR. The fact that contemporary man both fosters and tolerates this disease stricken atmosphere bodes ill for the future of the species. It is claimed that the human being is a very adaptable life form. We adjust to and cope with the most adverse natural and cultural conditions. Man inhabits the harsh, cold arctic tundra as well as the hot, scorched Sahara desert. He conforms to the rules of democracy or acquiesces to the demands of a dictatorship. This adaptive ability has, until now, assured our survival. However, there is a limit to this "virtue". There comes a point when we must recognize that our mode of existence imperils the physical as well as the emotional well-being of humanity. Who can honestly deny that modern man suffers inordinate dis-ease in the current conceptual and cultural framework? The argument that this is merely the fate of "sinful" man deserves no rebuttal. It is the ideological crutch of the despondent creature whose mechano-mystical credo has led us to the brink of extinction. Orgonomic research leaves no room for doubt that our dis-ease is the direct result of a disharmony within ourselves and with nature. Reich knew that,

"Man himself is responsible for desert making and desert breaking. Man has the tools of knowledge and the tools of technology at his disposal today to combat desert development, and even to turn existent deserts back into green, rich pastures for man and animal alike. The first obstacle in the way of OROP (= engineering operations designed to "break" deserts) desert is not the outer desert, but the inner, emotional desert of man." [4]

This may be viewed as a bitter indictment but the facts speak for themselves. The cosmic life energy was discovered more than 40 years ago and yet nothing has been done to develop its immense potentials. Instead we have opted to march, hypnotized by a display of explosive power, into the "nuclear age". I think it is high time that we start to reflect upon what we are doing and then to find enough guts to halt this parade into chaos.

Wilhelm Reich's basic natural research of the atmospheric orgone energy took place in the secluded countryside of western Maine. Here, among the mountains and lakes of the Rangeley region, Reich built his laboratory, cabin and observatory. He called the 280 acre estate, Orgonon. It remains intact to this day and the large observatory has been converted into a museum which is open to the public during the summer months. Reich chose to work here because the air was clean and free of stagnant OR energy. Today even this remote area is beleaguered with permanent DOR infestation due to the DOR fallout from the nuclear reactors in Vermont and Wiscasset, Maine. There are today fewer and fewer uncontaminated zones within the continental USA. This is a situation that I had to contend with when I ventured forth upon an orgone energy research project of my own.

I had, fortunately, become familiar with southern Florida some years ago. A map of North America will show that the extreme southern tip of this state together with a chain of islands, i.e., the Florida Keys, are located in the sub-tropical latitudes. Here there are warm temperatures and a mild climate the year round. Since the economy of this region is based primarily upon tourism, agriculture and fishing; factory generated pollution happens to be virtually nonexistent. However, the almost one hundred mile Atlantic seaboard strip, Palm Beach to Miami, has burgeoned into a major megalopolis. The energy needs of the populace are great but there are little or no sources of hydroelectric power in this coastal plain area. Consequently, several huge nuclear energy plants have been installed to provide the necessary electricity. The increase of DOR (the direct result of the continuous irritation of the OR envelope by nuclear energy) is tremendous and very perceptible. The intense thunderstorms, squalls and even tornadoes of recent years can probably be attributed in part to this nuclear influence. I spent a two week vacation there in 1976. I was distressed by the severity of the problem. The climate has deteriorated appreciably. There was, in conjunction with the disturbance in the OR energy envelope, a stagnant, enervating quality in the air that left one with a feeling of malaise on many days. Atmospheric conditions change for the better dramatically once you leave behind the peninsula proper and enter the Keys which extend farther south and then veer sharply to the west. Here, the predominant south-southwest flow of air guards these limestone and coral outcroppings against the adverse DOR effects that plague the mainland, that is, Florida itself and the entire continent in general. I decided that these islands, above which a

healthy, intact OR envelope still prevailed, were the most opportune place to go in order to carry out a research project that involves orgone energy functions.

I left, in late 1977, my secure job with a nationwide engineering firm and headed into unknown geographical territory and toward a largely unexplored theoretical domain. We, the members of a sophisticated, technological society, associate basic natural-scientific research with well funded institutions and teams of technicians and specialists. We tend to equate advances in empirical knowledge with the use of complex experimental paraphernalia and with the expenditure of vast sums of money. Our view of nature is so obscure that we assume that only geniuses and mathematicians have any access to the fundamental truths. I felt compelled to shatter this image of individual helplessness. I was a single, unaided person. I had a budget of less than \$5,000. My equipment consisted of the following items:

- } a Datsun pickup truck with a camper cap
- } a suitcase of clothing
- } tents (2)
- } sleeping bag
- } OR energy blanket
- } miniature OR energy accumulator
- } coleman lantern
- } portable stove, pots and pans
- } AM-FM radio (portable, battery operated)
- } fishing rods (2)
- } snorkel, mask and swim fins
- } binoculars
- } microscope
- } typewriter
- } books (2 dozen)
- } a canteen filled with Ronrico rum (for medicinal purposes only !!)

It was the second week of January, 1978, when I finally checked into the campgrounds at Long Key State Park. I pitched my tent for a planned stay of perhaps two months. The weather was fair but the temperatures were somewhat lower (55-70 degrees Fahrenheit) than is usual for the season. The frigid fingers of the extremely cold and snowy winter in the north sought to take hold even onto this tropical haven. I spent the initial month snorkeling, fishing, sunbathing and socializing with my fellow campers.

The principal instrument for any kind of orgone energy research is the human organism itself. If the organism is feeble, the orgone energy field loses intensity, narrows and the bio-energetic pulsation is weak. Therefore, those idle days, which were nevertheless filled with invigorating activities, were, in effect, a preparation for the work to come. I acquired a healthy tan, muscle tone improved and all my senses were honed, so to speak, to a fine edge. I began to feel more in harmony with myself and with the energetic ocean and island habitat.

The sun, that glowing, molten orb of energy, arose over a clear, blue horizon. The light gradually swept across the emerald green expanse of the Atlantic Ocean. The water rippled and sparkled in the golden sheen that the solar energy had excited in the luminescent OR energy envelope.

I stood naked inside the open flaps of my tent, which stood on a sand mound beside the beach, and experienced the primeval, celestial drama of sunrise. My skin tingled and I felt the ebb and flow of pleasurable emotion rush through my body as the faint light of dawn brightened into the full brilliance of daylight. A slight, warm breeze shook the needles of the stand of Australian whispering pines that flanked the campsite. It was a robust, splendid morning and I keenly sensed that such a day could not pass by without some favorable events. Life is not a passive affair and therefore if one wants to take advantage of opportune conditions, then he must act. Ralph Waldo Emerson was right when he said, "Inaction is cowardice." Also, I heartily endorsed his advice that, "All life is an experiment. The more experiments you make, the better." I put on my bathing trunks and plunged into the cool, refreshing surf.

I sat, after a vigorous hour long swim, on the beach and let the sun dry and irradiate my organism. Swimming is more than just a healthy exercise; it is an activity which immerses the living being in the orgone-rich water medium. Swimming, especially in the ocean, energizes the body, promotes the free flow of bio-energy and intensifies the pulsation of the orgone energy field. These benefits can, of course, be derived from most open air exercises. However, the deep feeling of *bio-energetic equilibrium* is, from what I have experienced, an effect unique to swimming. This harmony soon became evident to me as I lingered awhile on the warm sand and watched a child some distance down the beach gather together shells with a small shovel and pail. I smiled, happy to see the joy that this small toddler was capable of. She pursued her search with enthusiasm and her face beamed each time she found another seashell. There were several people on the beach who smiled and waved at the tiny beachcomber. She was, though, intent upon her frolics and paid little heed to the people. Gradually the child came closer to where I sat. Suddenly and unexpectedly, on impulse, she turned away from the water's edge and made a bee-line toward me. The child looked at my surprised eyes, smiled from ear to ear and promptly knelt down beside me. She took out every shell and showed them one by one to me. She spoke not a word but looked pleased and animated whenever I complimented her collection. This encounter lasted some five minutes after which she romped, exhilarated, back to her parents.

Why had this youngster chosen to share her wonder and joy with me? Young children, whose primary bio-energetic functions are still wholly intact, i.e., whose emotions (= energy motions) flow free and unblocked within them, are acutely sensitive to the vibrations of those around them. These vibrations are literally the pulsatory rhythm of the human orgone energy field. Their own orgone energy field is lively and functions at-a-distance as a *sixth sense*, that is, what Reich termed as being the "orgonotic first sense". It functions in like manner in those adults who are in contact with their bio-energetic core. Verbal communication has had to evolve whereas *orgonotic contact* is inherent to any and all living orgonotic systems. Language, more often than not, hides and camouflages feelings. This deception is, though, manifest in the orgone energy field. Children "know" who means them well or ill long before the reasoning functions have matured. They are, furthermore, attracted to those persons who are motile and radiate energy and are repelled by those who immobile. I would, therefore, have to assume that the particular child in question here sensed the harmony and

benevolence that was expressed in my orgone energy field, became attracted and took pleasure in my company.

Later that same morning a narrow band of cumulus clouds began to drift in from the ocean toward the campgrounds. The sky was a deep azure blue and was unclouded except for this incoming clump of towering cumulus. The formation seemed to come to an abrupt halt about a half mile offshore. Then the individual, well-defined bulbous spires began to collapse, lose structure and merge into a central cloud mass. The base of this now amorphous concentration of water vapor and orgone energy grew steadily darker. A patch of fair weather cumulus clouds had coalesced into a full-blown, congested cumulonimbus within a few short minutes. An alert camper yelled "waterspout". I peered out over the flat, calm ocean. There, directly below the cloud's gray-blue center, the water sprayed and swirled up vertically from the surface to a height of perhaps twenty feet. It was a strange sight because the ominous spinning spout was only beginning to protrude from the base of the cloud. There was, as it were, no discernible connection between the 'boiling' water and the cloud's vortex of energy. Finally the spiraling atmospheric OR energy attracted sufficient quantities of water vapor which in turn condensed, darkened and made visible the 'force' that had functioned at-a-distance. The spout could now be clearly seen as being a spiral protuberance which funneled downward from the cloud base in a halting, hesitating fashion. It resembled, at first, a drawn-out hourglass and then a continuous, elongated, whirling tube. This *waterspout*, this tornado in miniature, was an awesome, frightening sight at close range. The spiraling tube was silent and had an eerie, faintly luminescent gray-green hue. This sudden, violent charge and discharge of atmospheric OR energy lasted for ten minutes after which the spout retreated upward into the cloud and disappeared. Rain started to pour from the cloud until the entire formation dissipated. The mechanist does not understand how such a vortex of motion can build up in the calm air of sunny, tranquil skies. He will remain ignorant as long as he attempts to explain every meteorological phenomena only in terms of thermodynamics and convection currents.

During that same day, in the late afternoon, I leaned back, supine, against a sand dune and gazed calmly at the clear sky. The spiraling, luminescent white-violet dots of orgone energy soon appeared before my eyes. The sheer quantity of these OR units was great; more than I had ever perceived in New Jersey. I was also impressed by the speed and motion of these tropical *orgonules*. Very likely the combination of clear air and intense solar excitation were the wellsprings of this heightened potency. I shut my eyes for a minute or two. When I looked up again I was confronted by a thin mist that had condensed at the exact spot in the sky where my gaze had, moments ago, been directed. The water vapor mist expanded and thickened as I watched. Shortly, the metamorphosis of a patch of diffuse, fog-like water vapor into an opaque, white puffy cumulus cloud was complete. The cloud drifted away in the direction of the prevailing wind. The significance of this observation will be explored shortly.

The meteorologist defines a cloud as being: a mass of water particles, sufficiently numerous to see, in the liquid or frozen state which is formed by the chilling of water vapor below the dew point, that is, the point in the cooling process at which condensation just begins.

Cloud formation is viewed as being a *mechanical* process, the specifics of which are:

- 1.) Evaporation } Solar radiation produces the heat that evaporates water into the air. This water is in the gaseous state called water vapor.
- 2.) Convection } Warm, water-laden air expands, becomes lighter and rises.
- 3.) Condensation } As the warm air rises its temperature decreases, the relative humidity of the air increases until saturation (with water vapor) occurs and condensation begins.

Meteorologists, for a long time, found it difficult to solve the problem of how minuscule water vapor molecules could come together and form large cloud drops. Their laboratory experiments disclosed that when there is no foreign substance, i.e., a particulate nucleus, the water vapor molecules do not readily coalesce and come together only as a result of accidental collisions. So the search was begun for 'condensation nuclei', i.e., for the supposed building blocks of clouds. This quest for 'condensation nuclei' recruited the most sophisticated scientific hardware which included airplanes and the electron microscope. These instruments together with elaborate investigative techniques proved to the satisfaction of the meteorologist that the air in which clouds originate does indeed contain thousands of particles per cubic centimeter.

The mechanistic scenario for the formation of a cloud once there is a sufficient concentration of 'condensation nuclei' in the atmosphere is: Large cloud drops form as a result of collisions between droplets caught up in the powerful convection currents that produce clouds. Although most of the cloud is made up of rather small drops, there are always some large drops which are formed from massive hygroscopic, e.g., salt, nuclei. These drops when forced upwards by a vigorous convection current collide with and absorb smaller drops until ultimately near the top of the cloud, they are so large that the upward air current can no longer sustain them and they fall back through the cloud, colliding with more drops in the process and so growing even larger. These large, heavy drops then fall from the cloud as rain.

Orgone energy research defines the cloud as being: *a combination of concentrated orgone energy and water vapor.* Cloud formation is recognized as being a functional (= energetic) process, the specifics of which are:

- 1.) Attraction } An area or pocket of concentrated orgone energy forms in the otherwise evenly distributed orgone energy of the atmospheric OR envelope. This pocket has arisen, for example, due to a more intense excitation by the sun. The pulsation of the orgone energy increases. An area of strong OR potential has developed. There occurs now a confluence of OR energy from the surrounding lower, weaker level, i.e., the general mass-free energy continuum, toward the higher level, stronger organotic system.

- 2.) Charge } Water attracts and holds orgone energy and vice versa. Concentrated atmospheric OR energy and water vapor combine and form a cloud.
- 3.) Growth } The cloud grows and expands. It will continue to grow as long as there is sufficient water vapor in the vicinity and the influx of OR energy persists. The size, density and cohesion of the cloud is strictly governed by the orgone energy content.

Functional meteorology has determined that clouds will form with or without high concentrations of "condensation nuclei". Condensation nuclei can in not be considered as being the determining factors in the cloud formation process. The problem of how minuscule water vapor molecules can come together and form large drops is solved once we grasp the functional nature of the cloud process. Air currents, temperature and cloud drops are secondary manifestations of primary OR energy functions. They are dependent upon the basic OR energy functions of movement, pulsation and the ergonomic potential. Hence, when vast quantities of water vapor molecules have been attracted to and are held suspended within a matrix of pulsating, concentrated OR energy; the large cloud drops form due to the fusion of compacted water vapor molecules. In other words, every *contractive phase* of the pulsatory OR energy system (= cloud) will literally *squeeze* H₂O molecules together into drops. There is no need for the mechanics of forceful air currents and clumsy, random collisions of small drops with larger drops.

I thought back to the cloud that had formed at the pocket in the sky where my steady gaze had been focused. The idea that came to mind was this: The human being is a strong orgonotic system. The organism grows and consistently maintains a higher temperature than that of the environment because it is able to attract and hold more OR energy than it loses. The organism is encompassed by a mass-free orgone energy field. This field expands and contracts, i.e., pulsates, and narrows and widens in harmony with a human being's internal state of bio-energetic excitation. It is truly a sixth sense that functions at-a-distance within and through the OR energy continuum. Was it possible, perhaps because of the strong state of vigor or charge that I had felt, that my visual ray had excited an area of atmospheric OR energy? It had already been observed by me that the focus of the visual ray on the OR field that surrounds a metal sphere increases that field's pulsation. The apparent inducement of cloud formation seemed to fit in with the ability of the eyes to influence OR energy pulsation. The appearance of the cloud on the spot could, of course, have been just a coincidence. The connections that I tried to make would cause anyone who is not conversant with OR energy dynamics to double over with laughter. I, on the other hand, frowned, not at the impossibility of the phenomenon but rather, at the possible *latent potentials in the human organism that have been stifled by centuries of mechano-mystical orientation*.

A MECHANICAL CLOUD-BUSTER APPARATUS

Early in his investigation of atmospheric orgone energy, Reich noticed that whenever long, hollow steel pipes were pointed at the surface of a lake, the movement of the waves was affected. This haphazard observation, while not immediately analyzed, was never forgotten.

Since, at the time, the functions of the primordial energy had not yet been thoroughly formulated; the proper *connections* could not right there and then be made. Indeed, it took a dozen or so years of controlled experiments and keen observations to turn an apparently insignificant phenomenon into the basis for a mechanical apparatus that could modify the weather.

A hollow metal pipe is an orgone energy accumulator. The air space inside the hollow tube has a higher concentration of orgone energy than does the open atmosphere outside of it. When the pipe is pointed at a region of weaker OR field potential, the ergonomic potential becomes operative and, as a consequence, OR energy flows to the pipe. The connection between long, hollow metal pipes, i.e., cylindrical orgone energy accumulators, and OR energy movement having been made; Reich was now able to devise the technique which he termed, cloud-busting.

"The technique of cloud-busting is to a very large extent, if not wholly, based on the technological use of the ergonomic potential as it governs the OR energy functions of the atmosphere. The technological use of the ergonomic potential can be divided, basically, into the major groups:

A.) *Increase of the OR potential:*

In this case we concentrate OR energy and build-up a steeper or stronger OR potential. This will have entirely different effects than

B.) *Decrease of the OR potential:*

In this case we disperse or dissipate OR energy. We lower the potential difference and create a tendency toward more or less equal distribution of the OR energy in the atmospheric OR energy envelope of the planet. We act in the direction of the mechanical potential.

Rain clouds, thunder clouds, hurricanes and tornadoes are, seen from the viewpoint of ergonomics, different expressions of basically one and the same basic function, i.e., *combinations of concentrated OR energy streams and water vapors*. On the intensity, direction, location and similar conditions related to the combination of water and OR energy ($H_2O \leftarrow OR$) many atmospheric conditions depend. Most of these conditions still await detailed study and logical comprehension.

However the two basic principles of cloud-busting, increase and decrease of the OR potential, suffice at the moment to make their technological use comprehensible.

If we wish to destroy clouds we must use the ergonomic potential in such a manner that the potential decreases.

If we wish to create clouds or to increase the power of existing clouds, we must use the OR potential in such a manner that the potential between clouds and their immediate environment increases.

In order to execute these two basic principles in a satisfactory manner, we must, logically, construct and use a device which is capable of adding energy to the atmospheric OR energy envelope; or, we must construct a device which will draw energy from the OR envelope in such a

manner that the affected region *loses* certain amounts of energy to other regions, thus changing the atmospheric energy concentrations." [5]

I inform the conscientious reader, prior to examining the interactions between the mechanical cloud-buster's (= CLB's) OR energy beam and the atmospheric OR energy field, that my description of (CLB) functioning ostensibly contradicts the original concept. Whereas Reich's view was that the (CLB) draws atmospheric OR energy to itself, I now postulate that the (CLB) apparatus also radiates (= shoots) coherent OR energy beams into the atmosphere.

Reich's version of the functional (= energetic) polarity of the (CLB) device, which he himself had conceived, assembled and successfully used, is quite understandable. When Reich began his (CLB) experimentation almost thirty years ago, an incisive, integrated knowledge of the Life Energy continuum was just beginning to evolve. During his pioneer explorations into these uncharted realms, neither the *energy formula*, which clarifies the functional process of mass-free energy *field polarization*, nor the self-generative, metabolic process of OR radiation had yet been fully deduced. However, the objective observations upon which Reich had based his concept, for example, holes drilled into the overcast or into a cloud by the (CLB) pipe(s), were and are accurate. Their possible misinterpretation, due to an incomplete theoretical framework, as regards polarity in no way diminishes or undermines the authenticity of the concrete, proven OR energy functions which had made it possible to engineer and operate the (CLB) apparatus. These principles, disclosed and thoroughly researched by Reich, constitute natural-scientific insights of the highest order.

I assume the the (CLB) pipes (instead of the water into which they are 'grounded') constitute the core (= highest) OR potential component of the mechanical (CLB) apparatus. Consequently, an orgone energy current flows from the water's energy field into the pipes. Mass-free OR energy beams are subsequently radiated into the atmosphere. However if, under certain conditions, the water reservoir constitutes the highest OR potential component; then orgone energy currents would converge from the atmosphere to the (CLB) pipes and into the water. A (CLB) whose 'ground' component is a strong, surging river could induce just a reversal of the device's polarity. This would be a 'lawful' transformation of (CLB) functions. In other words, since the flow of OR current that is generated by the (CLB) is a dynamic, functional process; *the (CLB) apparatus can function in both directions*. Dr. Reich's innovative medical use of the OR energy accumulator as both an *energy irradiator*, e.g., in the "shooter device", and as an *energy withdrawer*, e.g., in the "DOR-buster device", confirms this capacity for functional change in the operational mode of the same mechanical apparatus. Such functional transformations are understood and acknowledged. I have deliberately chosen to emphasize the (CLB)'s radiative, 'shooter' mode of operation because the energy formula and the metabolic process of OR energy radiation offer new, valuable insights into the power of a (CLB) to effect action-at-a-distance.

CLOUD-BUSTING WITH THE (CLB) APPARATUS

The designation 'cloud-buster' or (CLB) for the mechanical weather modification apparatus is derived from the readily observable effects

that are produced when the (CLB) pipes are aimed into the overcast of at an individual cloud. The (CLB) device visibly *busts* up clouds. For instance, if a (CLB) consists of three pipes arrayed in a triangular configuration; three distinct holes will be "drilled" into a targeted cloud. These holes will appear in the cloud in the exact triangular pattern as the operative (CLB) pipes are arranged.

When the *OR energy beam* of a (CLB) establishes contact, i.e., is 'shot' into a cloud, it attracts and withdraws energy units from the cloud's orgone energy field. The resultant hole in the cloud testifies to the fact that the energy field which formerly bound and held the water vapor together has been weakened. Gradually, the entire cloud mass loses cohesion and dissipates.

It is the OR potential difference between the energy beam of the (CLB) and a cloud that governs cloud-busting. Since the energy beam constitutes higher, stronger energy level, atmospheric OR is attracted and withdrawn from the weaker OR system, viz., the cloud. To summarize: "One dissipates clouds of water vapor by withdrawing, according to the ergonomic potential, atmospheric, cosmic orgone energy from the center of the cloud. This weakens the cohesive power of the cloud; there will be less energy to carry the water vapors, and the clouds necessarily must dissipate. The ergonomic potential between cloud and environment is lowered." [6]

CLOUD-BUILDING WITH THE (CLB) APPARATUS

A clear, unclouded sky indicates a general uniformity of the atmospheric OR energy field potential. Complete overcast, in effect, indicates the existence of a generally high OR potential in the atmospheric envelope. Separated, distinct clouds in an otherwise clear sky are visible manifestations of the existence of OR potential differences in the atmospheric OR envelope. To review: When the OR energy beam of a (CLB) withdraws energy from a cloud, the concentrated OR field of this cloud becomes diffuse. The OR potential of the cloud is decreased and once more functions in equilibrium with the energy metabolism of the general mass-free energy substratum. Clouds lose their cohesiveness and their water vapor content disperses and becomes randomly distributed again. The destruction as well as the creation of clouds with the use of the (CLB) apparatus is accomplished by the technological manipulation of atmospheric OR potentials.

Let us assume that a (CLB) apparatus is operative, for the purpose of cloud-building, under a clear, cloud-free sky. The task, obviously, is for the (CLB) to induce those conditions in the atmospheric OR envelope which will be conducive to the formation of clouds. Clouds, to repeat, are visible expressions of the existence of OR potential differences in the atmospheric orgone energy field. Therefore, since a clear, cloud-free sky indicates an overall uniformity of OR potential; the (CLB) must be used in such a manner that will generate OR potential differences. Hence, the (CLB) operator aims the (CLB) pipes at specific, demarcated regions in the sky. The OR energy beam, which attracts and withdraws mass-free OR units in its path, lowers the OR potential in these targeted regions. Since the OR potential of the *unbusted* areas remains intact, differences in OR potential have now been produced in the atmospheric

OR envelope. The intact, high OR potential areas adjacent to the *busted* regions increase their OR potential levels at the expense of these *busted* regions. Eventually, if there is sufficient water vapor content in the air, cloud will form within the intact, *unbusted* areas.

Let us assume that a (CLB) apparatus is operative, for the purpose of cloud enlargement or growth, under a sky dotted with distinct, separated clouds. The task, again, is for the (CLB) to induce those conditions in the atmospheric OR envelope that are conducive to the formation of clouds. Therefore, the operator aims the (CLB) pipes at a cloud-free region which is in close proximity to the existent cloud. The OR energy beam lowers the OR potential of this targeted area that is contiguous to the existent cloud. The intact, high OR potential cloud adjacent to the *busted* area increases its OR potential at the expense of the *busted* area. The existent cloud will, provided that there is sufficient water vapor content in the air, expand and grow.

THE HUMAN POTENTIAL FOR OCULAR CLOUD-BUSTING AND CLOUD-BUILDING

When I reviewed the techniques of cloud destruction and cloud creation that Reich had applied in the successful use of the (CLB) apparatus, my own hypothesis concerning the possible excitation of the atmospheric orgone energy field by the *visual ray* seemed to crumble. Afterall, the mechanical (CLB) apparatus, according to Reich, was supposed to attract, draw energy to itself from the OR energy envelope, that is, orgone energy is withdrawn from and *not added* to the atmosphere. Since the explanation for the formation of clouds under the influence of the human being's *visual ray* is dependent upon the ability of the eyes to excite, in the manner of the sun, an area of atmospheric OR energy into heightened pulsation; the draw concept of technological cloud-busting and cloud-building refuted my contention.

I took a brief swim one day. The afternoon was waning as I sat on the beach. I shivered when the cool air that heralded the approach of evening blew against my wet body. I felt good, refreshed and relaxed. My skin tingled as the sun dried me. The typical fair weather cloud clusters hovered over the endless ocean. Smaller clumps (fractocumulus) drifted above me. Their white contours were distinct, not fuzzy like they most often are in the *DOR-laden* atmosphere on the mainland. Some of the larger cumulus literally boiled with energy and bulbous puffs of water vapor continually sprouted from their margins.

I watched this parade of clouds until I could no longer resist the temptation to put yet another assumption to the test. I presumed that the *visual ray of the human being like the OR energy beam of the (CLB)* might be able to dissipate clouds. I fixed my eyes on a small cloud. The seconds ticked by like minutes. The cloud drifted on and away undiminished. I was about to abandon my assumption when suddenly my first attempt to see the luminescent OR energy units dancing in the sky came to mind. I had failed in my first attempt at that time because visual contact with the OR energy continuum had been impaired by organismic tensions. Sure enough, my muscles were tensed and the tingle had left my skin. I sat still for awhile with my eyes closed. When I looked up again a cumulus cloud was overhead. I gazed directly at the center of it and followed its slow movement. The effect that my steady

gaze had on the cloud was unequivocal. The opaque, white cloud's motion across the sky ceased and gradually, in a matter of seconds, it became more transparent and less dense. The cloud's sharp contours melted away and mottled shreds of cloud floated where a whole, compact cumulus had been only a minute before. There could be no doubt: I had dissipated the cloud with my visual ray. The water droplets were clearly seen to dissolve and the cloud lost cohesion as I drew the mass-free orgone energy from the cloud's OR energy field. The cloud, objectively, was seen to dissipate and disappear from the clear blue sky in a time span of less than three (3) minutes. Subjectively, I felt the streaming of OR energy into and through my organism. In addition, my visual acuity improved temporarily.

The empirical disclosures of orgone energy research, e.g., the human potential just revealed, prove, unequivocally, that our civilization is opposed to nature and is in utter disharmony with the natural world. Life is rooted in the observable, tangible functions of the primordial, cosmic orgone energy ocean. We have, for the past four to six millennia, hacked and cut at those roots until today they are in grave danger of being severed altogether. If we, as a species, are to survive; we must finally learn to function in harmony with orgone (= life) energy processes. The changes in our cultural-conceptual orientation (which have now become a matter of absolute necessity) will not and *can not* be brought about by violent revolutions against institutions and society. On the contrary, the changes that we foresee will require generations and perhaps even centuries to evolve. Change can only occur when significant numbers of individuals and entire communities come to realize just how imperiled life is within the present cultural-conceptual framework. These enlightened people will then, in the interest of self-preservation, commit themselves wholeheartedly to change. Dr. Wilhelm Reich had no illusions in regard to how difficult it would be to transform an essentially mechano-mystical world into a functional (= energetic) world. Ultimately, his and my hopes rest with the children of the future. The Wilhelm Reich Infant Trust Fund, which was established at Reich's request, is witness to his dedication and faith in a future humanity. Responsible, aware people are obliged to begin to prepare the soil in which offspring who are in harmony with living functions rather than with cultural prejudices will be able to grow. Reich observed that, "The educator, whose thinking is mechanistic and mystical regards the child as a mechanistic-chemical machine, as a subject of the state or as an adherent to this or that religion. He presses the child into an alien world and calls this "adaptation", if he is a liberal, or "discipline", if he is an authoritarian. That which is alive in the child obeys cosmic laws and therefore has not changed in thousands of years. It develops new meanings and contents of life from its own resources." [7]

The mechanistic-oriented scientist rejects the contention that subjective impressions can disclose objective realities. He insists that the observer and the object under investigation must be controlled by a rigorous experimental method. The fact is that the *first orgonotic sense*, i.e., the perception of the bio-energetic currents within the organism and bio-energetic contact with the life energy processes outside in nature, has atrophied in our civilization. Consequently, if one completely mistrusts his own sensations, a rigid adherence to methodology and to controls seems to be a justifiable standpoint. However, no amount of experimental control can ever hope to improve on the sensitivity of

the scientist to life energy functions, i.e., to *natural laws*. The equations:
subjective impressions = emotions = irrational
objective thinking = intellect = rational
are formulations that reflect the negative attitude toward subjective observation. Hence, theories are constantly deduced intellectually and then experiments are devised that will prove that these strictly cerebral deductions are accurate.

Arthur Koestler notes, "The physicist has been trained to regard the world as experienced by our senses as an illusion... but that does not worry him unduly, because he has created a world of his own, described in a language of great beauty and power, the language of mathematical equations..." [8]

Bertrand Russell summarizes the dilemma of mechanistic science when he admits, "Physics is mathematical not because we know so much about the physical world, but because we know so little: it is only its mathematical properties that we can discover." [9]

Orgonomy, on the other hand, knows that the natural researcher whose first orgonomic sense is intact, has direct access to objective, verifiable processes. Reich states: "Sensation is the greatest mystery of natural science. Therefore functionalism knows its worth and values it highly. Because he regards sensation as a tool, the functionalist will always order his intellectual activity so that it is in harmony with his "sensations". Where the degree of emotional irrationalism is small (and it must be small for anyone who investigates nature) he listens to the gentle warnings of his sensations that tell him whether his thinking is right or wrong, clear or muddled by personal interests, whether he follows his irrational inclinations or any objective processes. All this has nothing to do with mysticism. It has to do exclusively with keeping our sensory apparatus, the tool of our research, in good condition. This condition is not a "gift" not a special "talent", but a continuous effort, a continuous exercise in self-criticism and self-control. Without an invariably clear system of sensation, without the ability to clear it if it becomes irrationally distorted, we would not be able to describe natural processes as they are. Such observations and viewpoints in natural research are alien to the chemist, the physicist of the old school, the astronomer, and the technician. They do not know their sensory apparatus, with which they explore the world. They can control their actions only by experiment and we know that experiment without organ sensation has taken natural science nowhere in crucial questions of nature." [10]

If the Michelson-Morley experiment was for the mechanist the 'experimentum crucis' that emptied the universe of an all-pervasive ether; then the observations that I had made, i.e., the human potential for ocular cloud-busting and cloud-building, are, for the functionalist, crucial experiments that again fill the atmosphere and the universe with the primordial, cosmic orgone (= life) energy. Here is the unequivocal confirmation of Reich's assertion that objective reality is revealed only when the subjective sensations of the observer have made orgonomic (= bio-energetic) contact with the objective processes of nature.

The task that awaited me became crystal clear. True, valid observations had been made, the implications of which were enormous.

However, I had to prove, not so much to myself but rather to those who must sooner or later investigate the functions of the OR energy continuum, that what I had felt internally and had seen happen externally was neither a mystical delusion, an hallucination induced by drugs, self-hypnotism, the effect of wind or some unusual quirk of nature. The solid foundation on which the science of the life energy rests was erected with the building blocks of keen observations and well-researched facts. These have been cemented together within a cogent, cohesive theory that has withstood the tests of subsequent experimentation. A phenomenon, no matter how impressive and important it may be, cannot be added to the structure of science unless it is repeatable, can be demonstrated as being a concrete fact to others and can be explained in terms of a theory that is in harmony with natural processes.

As explained earlier in this chapter, the financial resources and the equipment for Project Ocular Cloud-bust were limited. Nothing that I had brought along with me could be used to provide demonstrable evidence of this event. The thought that immediately came to mind was: if I could somehow capture the cloud-bust on film, then there could be little doubt as to its objective occurrence. Thus, I drove up to Miami and purchased a Pentax K-1000, SLR 35 mm. camera which included 50 mm. and 135 mm. accessory lenses. In addition, I bought a 2x converter (which boosted the maximum effective range of the camera to 270 mm.) a polarizing filter and a sturdy tripod. My experience in photography was very limited. I once owned a Kodak with which I occasionally took family snapshots. It took about a month and many rolls of film before I became proficient enough to employ the camera in a series of experimental setups.

The principal instrument for Project Ocular Cloud-bust was me. It was my sensitivity and vigor that enabled me to make bio-energetic contact again and again with the atmospheric OR energy processes. To repeat: the orgonotic first sense is not a special gift or talent of mine; it is, instead, an innate, functional component of all living organisms which needs to be rekindled in humanity and then nurtured and cultivated. I, personally, began to hold to a strict diet and followed a rigorous regimen of daily exercise. I began to feel like a fighter in training for a title bout. I jogged in the early morning and swam and snorkeled for two, three or more hours each day. This was necessary in order to keep the organism resilient, motile and vital. The bio-energetic energy metabolism of charge and discharge, under these conditions, was easily maintained in a state of dynamic equilibrium.

THE FUNCTIONAL DYNAMICS OF PROJECT OCULAR CLOUD-BUST

The details of Project Ocular Cloud-bust which I will now describe are presented within a format that I adopted at the very start of the research. I kept a written record or log of each observation and experiment. This log includes the date, time of day, temperature and general atmospheric conditions. In order to keep this report short and concise, only the most pertinent observations are offered. I have included the insights which I have gained on numerous other occasions in my explanations of ocular cloud-busting and cloud-building.

Date: June 6, 1978
Weather: Partly Cloudy
Temperature: 87 degrees F.
R. Humidity: 72%
Wind: 10-15 mph S-SE

Observation:

Fair weather cumulus clouds are seen to drift, individually and in clusters, through the clear blue skies. It is early afternoon and I feel invigorated after a swim and sunbath. Several small clouds yield, quite easily, to the ocular cloud-bust process. The target clouds appear to be transfixed by the visual ray. Their movement is seen to slow down. The cohesive, opaque patch of water vapor (= cloud) becomes diffuse, mottled and finally dissipates altogether. These external, objective phenomena leave their internal, subjective impression on the organism. The steady inflow of atmospheric orgone (= life) energy from the mass-free energy field to the eyes increases, as usual, my visual acuity. In addition, slight streamings can be felt in the organism, especially in the legs. The excess energy apparently discharges into the earth via the legs.

High above the ordinary, puffy cumulus clouds, some thin, feather-like streaks of cirrus clouds have formed. I focus my attention on the seemingly fragile cirrus formation. Even after an elapsed time of 15 minutes, the objective and subjective effects that usually attend the ocular cloud-bust process do not occur.

Conclusion:

Although *cumulus* clouds readily yield to ocular cloud-busting; *cirrus* clouds are not susceptible to this process. Therefore, I have to conclude that there are two groups of cloud formation, i.e., those cloud types that are amenable to ocular cloud-busting and those cloud types that are resistant to ocular cloud-busting. It must be noted here that under adverse atmospheric conditions or whenever the human organism is sickly or sluggish, the otherwise amenable cloud types are also resistant to the ocular cloud-bust process.

Explanation:

- The three basic cloud forms that are recognized by meteorology are:
- 1.) cumulus
 - 2.) cirrus
 - 3.) stratus

Cirrus clouds occur at altitudes in excess of 30,000 feet. Owing to their great heights and the low temperatures that prevail there, cirrus clouds are composed, not of water droplets, but rather, of thin crystals or needles of ice. Although the great height of these clouds may diminish the 'draw' potential of the visual ray; the main obstacle to the ocular cloud-bust process is surely the rigid structure of the cirrus. Whereas a cloud of water droplets, e.g., a cumulus cloud, is suspended and held together within a concentrated, mobile atmospheric OR energy field; cirrus ice crystals are expressions of orgone energy which is relatively immobile and has become structured. On the one hand, the water vapor cloud is suffused by a free, largely unbound orgone energy field. On the other hand, cirrus ice needle clouds are indicative of mass-bound orgone energy. Clearly, the OR energy field in the former instance is amenable to ocular cloud-busting while the structured form in the latter instance is not.

Stratus formations are uniform, gray cloud sheets. These thick cloud layers indicate a strong contractive tendency in the atmospheric OR energy envelope. Since stratus clouds form and become charged at the expense of the mass-free, unbound orgone energy in the atmospheric OR envelope, their resistance to the ocular bust process probably stems from a combination of the reduced bio-energetic vitality of the organism during such weather conditions and the overall high OR potential of the cloud bank itself. For example, when one draws from an isolated cumulus cloud, the OR potential of this cloud decreases. This OR field potential, as the cloud dissipates, reaches the energy level of the surrounding sky. The stratus formation, on the other hand, constitutes a huge, uniform area of high OR field potential. It is very difficult to weaken its close-knit OR energy field.

Cumulus and *cumulonimbus* (which are the thunderheads that can reach heights of up to 75,000 feet) are the billowing cloud forms that are very amenable to the ocular cloud-bust process. The predominance of energy over mass in these forms is evident in the roiling motion that pervades the cumulus and by the periodic lightning discharges that flash forth from the awesome cumulonimbus.

Date: July 23, 1978
Weather: Partly Cloudy
Temperature: 85 degrees F.
R. Humidity: 78%
Winds: 10-20 mph S-SW

Observation:

The bio-energetic potency of the organism is heightened when the individual receives the benefits of concentrated OR energy irradiation while he sits in an OR energy accumulator. If one uses the OR accumulator two or three times during the same day, a considerable charge effect may become apparent. The extent and the intensity of the body's orgone energy field will increase and the skin surface may literally tingle with energy. This cumulative charge process is likewise operative in the ocular cloud-bust process. The organism, in both the OR accumulator and the ocular bust process, is irradiated with atmospheric

life energy. Whereas the life energy inundates the body through the skin surface in the case of the OR accumulator, life energy flows into the organism predominantly through the eyes in the case of ocular cloud-busting. Since it is ultimately the bio-energetic core, i.e., the autonomic nervous system, that becomes most highly charged; the direct streaming of life energy to the autonomic core via the eyes means that ocular cloud-busting is a more efficient, much less time-consuming charge process than is the OR accumulator. The cumulative charging effect of two hours of OR accumulator irradiation, for example, could be accomplished in ten to fifteen minutes of ocular cloud-busting.

I had, on this particular day, spent at least an hour practicing ocular cloud-busting after which I swam for another two hours. I stood on the beach and set my camera atop the tripod. It was my intention to snap a picture of the towering cumulus formation that drifted over the ocean. As I looked up to check the position of the sun, I was fascinated and distracted by a multicolored corona that began to take shape on the sun-lit fringes of a high altitude cirrocumulus cloud. I was amazed when the initially faint colors began to deepen in hue as I gazed intently at the corona. I started to focus my eyes at different portions of the cloud and these likewise took on a brilliant coloring. Wherever I brought my visual ray to bear, color phenomena followed. I thought that this might all just be a subjective, entoptic effect. I photographed, in order to obtain objective confirmation of this observation, the corona. My photographs were taken at 2:05 P.M. with a 50 mm lens with an attached polarizer filter. The visual ray stimulated the color phenomena through the viewer. As a control, I left the camera in the same position, averted my eyes and took two other pictures. The results were a pair of photographs without even a hint of a multicolored corona.

Explanation:

The visual ray stimulates color phenomena on *sun-lit* clouds. "The corona we see in clouds are formed by diffraction of light by the drops of water in the clouds." [11] This statement sums up the conventional physicist's understanding of any and all atmospheric corona phenomena. We will not, in this book, debate about the nature of light. The nature of light and color is a topic too vast to be covered here. However, the reader is advised to consider our contention that light and color are generated within the mass-free OR energy continuum by a process of illumination. Lummation takes place when this energy continuum is excited, e.g., by solar radiation, by the superimposition of two or more OR energy streams (as in the aurora borealis) or by EM waves.

The eye is often enough compared to a camera. The eye, like a camera, is supposedly a strictly receptive organ. It is said that sight is the perception of certain, well-defined wave frequencies in the EM spectrum. Light enters through the eyes and images are perceived. The corona observations show that the eyes not only receive 'light' but that they also radiate 'light'. *Sight is a function of bio-energetic contact.* This contact is made with the visual ray.

Tentatively we could say that in the case of the visually stimulated corona phenomenon, the visual ray is diffracted by the tiny needle prisms of the cirrus-type cloud and excites the mass-free OR energy field of the cloud into multicolored illumination.

The principle, here firmly established, is that the *energy formula*, which governs the planet Earth, the star sun and the artificial, man-made OR energy accumulator, is operative in both nonliving and living organotic systems. The organotic system, eye, can be compared to the organotic system, sun. Eye and sun both function in accordance to a charge > discharge metabolic process and both systems attract and radiate 'light'.

Date: August 15, 1978
Weather: Partly Cloudy
Temperature: 80 degrees F.
R. Humidity: 75%
Wind: 10-15 mph S-SE

Observation:

It is warm and sultry as I sit on the steps of my rented trailer. Although it is almost midnight, the white, bulbous cumulus and fractocumulus clouds above me are brightened by the glare from a full moon. I peer at the clouds when they pass in front of the lunar disc. The camera is readied just in case a multicolored corona might possibly appear on these moon-lit clouds. Once or twice a faint brownish-blue aureole can be discerned. It cannot, however, be captured on film. The thought occurs to me, "Is it possible to achieve an ocular cloud-bust at night?" I gaze up at the tall turret that rises atop a large cumulus formation. This cloud turret fades and dissipates within a few minutes. After several other successful ocular busts, my attention turns again to the clouds that drift in the moon's vicinity. The visual ray, now bio-energetically potent, stimulates (=excites) a multicolored aureole to appear in the mass-free OR energy field of these moon-lit clouds.

Conclusion:

The visual ray stimulates color phenomena on *moon-lit* clouds.

Explanation:

The same explanation as is given for the color phenomena that are stimulated on *sun-lit* clouds.

Date: June 27, 1978
Weather: Partly Cloudy
Temperature: 86 degrees F.
R. Humidity: 82%
Winds: 15-20 mph NW

Observation:

I purposely confined my ocular cloud-busting activity to a specific, limited sector of the sky. Any cloud that happened to enter this zone was dissipated by the visual ray. I noticed, after this prolonged and constant ocular cloud-busting, the build-up of a distinct cloud bank to

the NE. It drifted slowly toward the zone. Here it lingered, seemingly immobilized. The sky for miles around was clear of any clouds. This formation of clouds that loomed right above me was an impressive sight. It was growing, expanding and darkening before my eyes. Smaller clouds in its proximity were literally being drawn toward this burgeoning formation. Soon it extended for more than a mile upstream (NE) of the ocular bust zone. It was late afternoon and the sun shone brightly in an otherwise clear, blue sky. However, right above me, a now really ominous looking cloud bank threatened to drench me with the tons of water that it had accumulated for the previous half hour or so. Sure enough, a fine drizzle became a steady shower that lasted for almost an hour after which the cloud bank lost most of its volume and bulk. A brisk breeze then scattered the system.

Conclusion:

Extensive ocular cloud-busting that restricts itself to a definite, limited area in the atmosphere is capable of creating those conditions in the mass-free OR energy envelope that are conducive to the formation of rain clouds.

Explanation:

Reich, in his use of the mechanical (CLB) apparatus, had successfully demonstrated that rain clouds can be generated when the evenness in the distribution of the atmospheric OR energy is disrupted. Differences in OR potential are induced by withdrawing, i.e., by lowering the OR potential, in a demarcated zone of the atmospheric OR field. Clouds, under favorable conditions, will form in the intact, "unbusted" areas of high OR potential. These strong, unaffected areas accumulate, in accord with the ergonomic potential principle, energy and water vapor at the expense of the weakened zone.

I had, with my ocular cloud-bust experiment, created just such a zone of low OR field potential. When the cloud bank of high OR potential came into contact with this zone, it drew energy and moisture from it. Subsequently, the cloud bank's water vapor content increased until the OR energy field of this cloud formation could no longer hold the huge volumes of water suspended. As a result, it rained.

Date: June 29, 1978
Weather: Partly Cloudy
Temperature: 84 degrees F.
R. Humidity: 70%
Winds: 5-10 mph S-SE

Observation:

I took many pictures of the ocular cloud-bust process this day. These photographs constitute vivid, objective demonstrations of how rapidly this process can take place. Most of the photos were taken in the late afternoon after a day of swimming and snorkeling. I placed, on this occasion, an "Eagles" cassette into my tape recorder and relaxed to the sound of the music. My immediate response to the music was intense.

Pulsatory sensations flooded my whole body. The rhythmic *musical vibrations* seemed to resonate in each and every cell of my organism. I set up my camera and waited for an opportunity to perform an experiment that had come to mind. I thought, "Will this intense state of bio-energetic pulsation affect either the speed or the efficiency of the ocular cloud-bust process?" The, in my opinion, remarkable bust effects that were achieved after an elapsed time (carefully noted on my wrist watch) of only 30 to 45 seconds are definitely positive answers to this question.

My control photographs were taken in mid-afternoon after an extended session of preliminary ocular cloud-busts and once again to the accompaniment of music. The target clouds, in those instances were a mile or more distant. Even so, the ocular bust process was achieved after elapsed times of merely 60 to 90 seconds.

Conclusion:

Pulsation is the bio-energetic function of the human organism that determines and limits the potential for the ocular cloud-bust process. The rate of bio-energetic pulsation governs both the speed (= efficiency) and the distance (= effective range) of the ocular cloud-bust process.

Explanation:

The *organismic capacity* for ocular cloud-busting increases once the bio-energetic core, viz., the autonomic nervous system, becomes sufficiently charged. This is a cumulative process that depends on the quantity of atmospheric life energy that flows into and is retained within the organism. What needs to be pointed out here is that a high charge level does not necessarily or automatically lead to an increase in the bio-energetic pulsation of the organism. Let me try to provide an analogy. The IQ. of an individual may be very high, i.e., a great capacity for intellect achievement is in place. However, if there is an absence of the inner impulse to pursue the goal of knowledge, this potential will lie dormant and stagnate in the individual. The quantitative capacity exerts its influence only if the qualitative impulse (= motivation) is active. Similarly, although the human organism can be charged with life energy, this charge will remain sequestered if one's inner impulses are blocked by tense musculature and an attendant inflexible psychic attitude. The quantitative charge will increase bio-energetic pulsation only if qualitative impulses ((e)motions) are allowed to develop.

I, personally, have always thought that if there is anything "spiritual" in this pragmatic, materialistic world, then its essence must be embodied in *music*. The ultimate depths of feeling which must have inspired composers like Bach, Beethoven, Schubert, etc., were discovered by me when I listened enraptured to their creations after a day of ocular cloud-busting. Life energy surged within me for hours in total harmony with the *musical currents* of the concertos and symphonies. Every fiber and every cell resonates when one genuinely experiences *music*. One actually hears with the whole organism. The appreciation of great music is not a passive experience. It is very much an active, (e)motional participation. It is, again, orgonotic (= bio-energetic) contact. You vibrate like an instrument in the orchestra.

You are, in effect, a resonant instrument. Musical sounds are capable of evoking strong bio-energetic currents in every person who responds to music. Music has become invaluable to me in the practice of ocular cloud-busting. Whenever my inner impulses begin to wane and, as a consequence, the potential for the ocular bust process diminishes within me; music can stimulate a resurgence of activity. Bio-energetic pulsation is truly the organismic limiting factor in the ocular cloud-bust process.

Date: September 5 thru September 11, 1978

Weather: Partly Cloudy

Temperatures: 80 - 87 degrees F.

R. Humidity: 75% - 80%

Winds: 5-15 mph S-SW

Observations:

It is easier to achieve the ocular bust of clouds during the late afternoon hours and at dusk than during the midday period.

Conclusion:

Certain dynamics that are indigenous to the atmospheric OR envelope are limiting factors for the ocular cloud-bust process.

- a.) The potential for this process *decreases* at midday.
- b.) The potential for this process *increases* during the late afternoon and at dusk.

Explanation:

Just as there are oceanic tides, there are also atmospheric orgone energy tides. Fundamentally, both the oceanic and atmospheric tides are generated by the functional processes that are responsible for what I call 'planetary respiration'. Whereas the tides in the oceans ebb and flow upon the surface of the Earth; atmospheric OR energy tides alternately ascend into space and descend back again toward the Earth.

On the one hand, mass-free orgone energy is discharged from the core of the planet and is radiated into the atmosphere during the midday period. This radiation phase induces the OR energy envelope to expand considerably. On the other hand, mass-free orgone energy is withdrawn from the OR energy envelope and is attracted back down toward the planetary sphere in the late afternoon and at dusk. This attraction phase induces the OR energy envelope to contract considerably.

The increased potential for ocular cloud-busting in the late afternoon and at dusk is facilitated by the 'downward pull' that is exerted upon the mass-free OR energy content of the atmosphere. It is this attractive (= "positive gravity") phase that enhances the ocular cloud-bust process.

The decreased potential for ocular cloud-busting at midday is due to the 'upward push' that seizes the mass-free OR energy content of the atmosphere. The ocular bust process is to a greater or lesser extent hindered because the draw function of the visual ray must contend with

] and counteract this radiation (= "negative gravity") phase. The organism, in essence, must heighten its bio-energetic potency. In other words, it takes more effort in order to achieve ocular cloud-busting under these more adverse atmospheric conditions.

EPILOGUE

The human potentials for ocular cloud-busting and cloud-building are not mechanical processes. The ability to achieve the various results which have been outlined in this book does not depend upon the application of certain prescribed techniques. Instead, these are functional processes which depend wholly on a harmonious interaction between the living, bio-energetic functions in the human being and those *functionally identical* life energy processes in nature. In other words, orgonotic (= bio-energetic) contact between organism and cloud has to be established. This human potential is not a special gift or talent. It is a *latent ability* in all human beings which takes time, effort and an awareness and understanding of the primordial, cosmic, life energy ocean to develop. As that great functional thinker, Goethe, said, "How could our eyes see the sun, unless they are sunlike themselves?"

R E F E R E N C E S

*** 4 ***

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