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Into a New Age

Aquarius has an intellectual influence which is original, inventive, mystic, scientific, altruistic, and religious. If we apply the biblical standard, "By their fruits ye shall know them," to this problem, we would expect to see that the Aquarian Age would be ushered in by original endeavors along all lines connected with science, religion, mysticism, and altruism, and we can now (1917) look back upon a period of about seventy years in which the Sun by precession has traveled one degree in the orb toward Aquarius. During that time we find that there has been a very marked change in all lines of thought and endeavor from that which history records throughout the past two millenia. Almost all the inventions which make our life today what it is have been made during that time. The telegraph, the telephone, the use of electricity, the conquest of air and steam, the gas engine, and other inventions too numerous to mention are marking the Aquarian progress in the physical world.

We also note the rapid rate at which all the movements of liberal thought in religious matters are superseding the old creed bound conditions and the increasing number of those who have developed the spiritual sight and are investigating the trend of evolution in the higher planes. Note the rapidity with which the science of astrology is gaining ground.

All these things show, or give an inkling of, what may be expected to happen during the Aquarian Age. When such great strides have been made during seventy years while the Sun is just beginning to transmit the influence from the outskirts of Aquarius, what then may be expected when it enters the sign itself? Both the possibilities and the probabilities are far beyond the range of the wildest imagination, and this applies both to the physical and the psychical side of life.

It is the opinion of the writer that at least the etheric sight will be then developed in the majority of mankind, if not by all, so that the sting of death will be removed, at least partly, by the companionship that will exist with our friends and relatives who have passed out of the body. We shall then continue to see them a while and have time to get used to the fact that they are going to higher realms. We shall not grieve at all for the little children who die and retain their vital bodies, for they will probably remain with their parents until it is time for them to take a new embodiment. This often occurs in the same family. In those cases there would be absolutely no sense of loss.

When this point in evolution is reached mankind will also be so much more enlightened that it will avoid many of the pitfalls which cause trouble today, and it therefore favors a much happier existence than has been the rule up to the present stage. The added intellect will help us solve the social problems in such a manner that impartiality and justice will be shown to all, and the use of continually improving machinery will emancipate mankind from physical toil to a great extent and leave more time for intellectual and spiritual improvement.

—MAX HEINDEL



Revising the Christian Bible

Part II

THERE is surely no part of the orthodox interpretation of the New Testament which needs clarification more than that which deals with the nature of Jesus, of Christ Jesus, and of Christ. The Western Wisdom Teachings offer an explanation for this pivotal subject which appeals to the logical, reasoning mind, and at the same time to no degree lessens one's love and reverence for Jesus nor of appreciation for the mission he performed in the interest of humanity.

In *The Rosicrucian Cosmo-Conception* (p.374) it is stated: "To gain some slight insight into the . . . mission of Christ as the Founder of the Universal Religion of the future, it is necessary that we first become familiar with His exact nature . . .

"In the Christian creed occurs this sentence: 'Jesus Christ, the only begotten Son of God.' This is generally understood to mean that a certain person Who appeared in Palestine about 2,000 years ago, Who is spoken of as Jesus Christ — one separate individual — was the only begotten Son of God.

"This is a great mistake. There are three distinct and widely different Beings characterized in this sentence. It is of the greatest importance that the student should clearly understand the exact nature of these three Great and exalted Beings — differing vastly in glory, yet each entitled to our deepest and most devout adoration."

There follows a detailed description of these Beings, which is too lengthy to give here in its verbatim form. However, we shall endeavor to give briefly the essential facts as stated in the *Cosmo-Conception* and the pamphlet entitled *How Shall We Know Christ at His Coming?* in regard to this vital point in the Christian Teachings, leaving it to the reader to gather additional desired details from the texts.

"Christ is the highest Initiate of the Sun Period. The ordinary humanity of that Period are now the Archangels . . . The humanity of the Sun Period could not descend any farther into the sea of matter than the Desire World, therefore their lowest vehicle was the desire body, and as it is a cosmic law that no being can create a vehicle which it has not learned to build during its evolution, it was impossible for the Christ Spirit to be *born* into a physical body. He could not form

such a vehicle. Neither could He form a vital body made of ether. He also lacked the ability to function in the latter substance, because He had never acquired it in His evolution. To supply the needed vehicles for Christ, *Jesus, a man of our own evolution*—a man born of a (human) father and a mother — gave up his dense and vital bodies *at the Baptism* to the Sun Spirit, Christ, who then entered the material world and became mediator, having all the vehicles necessary to function between God and man. (See diagram No. 14, page 377 in the *Cosmo-Conception*.) *Christ Jesus is therefore absolutely unique*, and the Bible tells us that *there is no other name whereby we must be saved, but by the name of Christ Jesus: this is the only authoritative Christian creed.*”

It is to be noted, as an especially important point, that it was at the Baptism that Jesus became *Christ Jesus*, as taught in occultism. This is of course not in accord with the accepted orthodox tradition that Mary gave birth to the Logos, the Second Person of the Trinity. However, there were early Christians who accepted the teaching that it was *at the Baptism* that the incoming of Divinity occurred. Dr. Potter reminds us (again in *The Lost Years of Jesus Revealed*) that Theodotus of Byzantium and his follower Artemon taught “Adoptianism in Rome about A.D. 185. Before that it flourished among the Ebionites, a rural Jewish sect of the first and second centuries... So a form of Adoptianism, or belief that Jesus was only human until he was adopted by God the Father at his baptism (some said resurrection), was apparently the current belief in Palestine in the first century A.D. and well into the second, among certain Christians, especially around Antioch.”

Now that the identities of Christ, Christ Jesus, and Jesus have been explained as taught in the Western Wisdom Teachings, our next problem is: Why did Christ come here in the first place? He came because under the separative reign of Jehovah man had sinned (acted contrary to divine law) to such an extent that he needed help if he were not to retrogress. Crystallization had set in during the self-seeking regime of Jehovah, making unity impossible. Added to that was the detrimental influence of the Lucifer Spirits. Therefore, the intervention of Christ, who possesses as a lowest vehicle the unifying Life Spirit, became necessary. He must enter into the dense human body and dwell there, because only from *within* is it possible to conquer the race-religion (under Jehovah), which influences man from without.

“The separative religions of the Holy Spirit must give place to the unifying religion of the Son, which is the Christian religion. Law must give place to Love, and the separate races and nations be united in one Universal Brotherhood, with Christ as the Eldest Brother.”

The vibrations of the great Christ Spirit (which entered the Earth at the Crucifixion) so cleansed the desire body of the Earth that it was thenceforth possible for human beings to secure purer desire stuff for their individual desire bodies, and therefore be given an impetus toward cleaner living. In addition, the power of the Christ impinged upon the Christ or Love-Wisdom Principle within man and caused the force of altruism to grow within him.

“On Golgotha, the physical body of Jesus was destroyed amid certain phenomena recorded in the Bible, and the Christ Spirit drew into the Earth. Up to that time the Earth had been worked upon from without... The Earth had been guided in its orbit and mankind had

been led on the path of evolution almost entirely by Jehovah, but from that time the Christ became our indwelling Earth Spirit. He now guides our planet in its orbit, and is endeavoring to replace the regime of war inaugurated by Jehovah on the one hand, and the material Lucifer Spirits on the other, by a regime of altruism, a reign of Universal Friendship."

Now the question arises: Will Christ come again, and if so, why and how and when? The Rosicrucian Philosophy teaches that He *will* come again, in an etheric body, when humanity has made conditions possible for him to come. In fact, He must come again so that He may be freed from the Earth which now holds Him in thrall, and return to the Sun, His heavenly home. Furthermore, as Christ entered the Earth by way of the vital body of Jesus, at the periphery of the Earth, so under the law He must leave by that same way upon His return from the redeemed Earth to the Sun; no other vehicle will do.

As to when the Christ will come again, the Bible says truly that "the day and the hour knoweth no man." This is because the Second Coming of Christ can take place only when a sufficient number of people have become Christlike (have acquired soul bodies of sufficient luminosity) and attuned to the Love-Wisdom Principle, so that they will be able to respond to the Christ vibrations that will be set up at the return of the Saviour.

But it should be understood that Christ will not come again in a dense, physical body; He will come in an etheric vehicle, the same one He used when He walked the Earth among men, teaching and healing. Does the Bible teach us what that vehicle is, and is there any full and definite information to be had concerning this new vehicle?

Yes, it does, and there is. In 1st Thessalonians 4:17, St. Paul says: "We which are alive and remain, shall be caught up together with them in the clouds, to meet the Lord in the air." In 1st Corinthians 15:44, we are told: "There is a natural body and there is a spiritual body. The words used for "natural body" are *soma psuchicon*. *Soma* is a Greek word meaning body, as everyone agrees, But *psuchicon* — *psuche* (*psyche*) — the soul — a soul body, probably sounded foolish to the translators, so they translated the word "natural." However, the Western Wisdom Teachings explains that there *is* a soul body, which is composed of the two higher ethers of the vital or etheric vehicle, and "This soul body is the vehicle Paul refers to as the one in which we shall meet Christ. Since it is composed of ether it is capable of levitation and passing through walls, as all dense matter is permeated with ether.

"At first thought it seems strange that we shall meet the Lord 'in the air', but it is not strange when we consider that the path of evolution has ever been from within outward . . . Slowly but surely we are climbing toward the hilltops of the Earth; we seek higher and higher levels. An increasing number of people are becoming capable of functioning in the soul body, and thus getting ready for the Second Coming. This change is being wrought by *altruism* — loving, selfless service to others. There is no other way."

Thus we can see that in the light of occult philosophy it is not only a matter of revising Bible texts, but it is first a matter of *understanding* the deeper truths and consequently of interpreting in the radiance of a greater spiritual light that which has been given us in the Scriptures.

THE Mystic LIGHT

The graphic consists of a central five-pointed star with a cross inside it. To the left of the star is a lit lamp, and to the right is a heart with a flame above it. Below the star and lamp, the word 'LIGHT' is written in large, bold, block letters. A horizontal line runs through the middle of the word 'LIGHT', and several lines radiate downwards from the center of the star, passing through the line and ending in dots.

The Aquarian Age

MAX HEINDEL

AT the end of the Taurean Age, about 4,000 years ago, "God's People" fled from the wrath to come when they left Egypt, the land where they worshipped the Bull. They were led in their flight to the promised land by Moses, whose head in ancient esoteric pictures is adorned with wreathed ram's horns, symbolical of the fact that he was herald of the Aryan Age of 2100 years, during which each Easter morning the vernal Sun colored the doorposts red as with the blood of the lamb, when it passed over the equator in the constellation of the ram, Aries.

Similarly, when the Sun by precession was approaching the watery constellation Pisces, the Fishes, John immersed the converts of the Messianic religion in the waters of Jordan, and Jesus called his disciples "fishers" of men. As the "lamb" was slain at the passover while the Sun went through the constellation Aries, the Ram, so the faithful have in obedience to the command of their church fed on fishes during Lent in the present cycle of Pisces, the Fishes.

At the time when the Sun by precession left the constellation Taurus, the Bull, the people who worshipped that animal were pronounced heathen and idolaters. A new symbol of the Savior, or Messiah, was found in the lamb, which corresponded to the constellation Aries; but when the Sun by precession left

that sign, Judaism became a religion of the past, and thenceforth the bishops of the new Christian religion wore a mitre shaped like a fish's head to designate their standing as ministers of the church during the Piscean Age, which is now drawing to a close.

By viewing the future through the perspective of the past, it is evident that a new age is to be ushered in when the Sun (by precession) enters the constellation Aquarius, the Water-bearer, a few hundred years hence. Judging by the events of the past, it is reasonable to expect that a new phase of religion will supersede our present system, revealing higher and nobler ideals than our present conception of the Christian religion. It is therefore certain that if in that day we would not be classed among the idolaters and heathen, we must prepare to align ourselves with these new ideals.

John the Baptist preached the gospel of preparedness in no uncertain words, warning people that the ax had been laid at the root of the tree. He cautioned them to flee from the wrath to come, when the Son (Sun) of God should come, fan in hand, to separate the wheat from the chaff and burn it up. Christ likened the gospel to a little leaven which leavened a measure of flour.

At first sight the method of John seems to be most drastic, laying the ax

at the root of the whole social structure, while the leavening process mentioned by Christ appears to be more gentle; but in reality it is even more thoroughgoing and drastic, as will be evidenced if we consider carefully what takes place when we make a loaf of bread.

It is a chemical revolution, a miniature war, involving an entire transformation of every atom of flour in the vessel; none can escape the action of the leaven, and there is a sound as of continual cannonading, explosion of bombs and shells, until the force of the leaven is spent and the dough transformed to a light sponge. But this war of the atoms, this chemical revolution, is absolutely indispensable in the process of bread making, for if the leavening process were omitted, the result would be a heavy, unpalatable, indigestible loaf. It is the transmutation wrought by the leaven which makes the loaf wholesome and nutritious.

The process of preparation for the Aquarian Age has already commenced, and as Aquarius is an airy, scientific, and intellectual sign, it is a foregone conclusion that the *new faith* must be rooted in reason and able to solve the riddle of life and death in a manner that will satisfy both the mind and the religious instinct.

Such is the Western Wisdom Religion promulgated by The Rosicrucian Fellowship. Like the leaven in the loaf, it is breaking down the fear of death engendered by the uncertainty surrounding the post-mortem existence. It is showing that life and consciousness continue under laws as immutable as God, which tend to raise man to increasingly higher, nobler, and loftier states of spirituality. It kindles the beacon light of hope in the human heart by the assertion that as we have in the past evolved the five senses by which we contact the present visible world, so shall we in the not distant future evolve another sense which will enable us to see the denizens of the etheric region, as well as those of our dear ones who have left the

physical body and inhabit the ether and lower Desire World during the first stage of their career in the spiritual realms. The mission of Aquarius is aptly represented by the symbol of the man emptying the water urn.

Aquarius is an airy sign having special rule over the ether. The Flood partly dried the air by depositing most of the moisture it held in the sea. But when the Sun enters Aquarius by precession, the rest of the moisture will be eliminated and visual vibrations, which are most easily transmitted by a dry etheric atmosphere, will become more intense; thus conditions will be particularly conducive to production of the slight extension of our present sight



necessary to open our eyes to the etheric region. California's production of psychics is an instance of this effect of a dry, electric atmosphere, though, of course, it is not nearly so dry as the air of the Aquarian Age will be.

Thus faith will be swallowed up in knowledge and we shall be able to utter the triumphant cry, "O death, where is thy sting? O grave, where is thy victory?" But it is well to realize that by aspiration and meditation those who are longingly looking for that day are taking time by the forelock and may quite easily outstrip their fellows who are unaware of what is in store. The latter, on the other hand, may delay the development of extended vision by the belief that they are suffering from hallucinations when they begin to get their first glimpses of the etheric entities, and the fear that if they tell others

what they see, they will be adjudged insane.

Therefore The Rosicrucian Fellowship has been charged by the Elder Brothers with the mission of promulgating a campaign of education and enlightenment, so that the world may be prepared for what is in store. The world must be leavened with these ideas:

1. Conditions in the land of the living dead are not shrouded in mystery, but knowledge regarding them is as available as knowledge concerning foreign countries from the tales of travelers.

2. We now stand close to the threshold where we shall all know these truths.

3. And, most important of all, we shall hasten the day in our own case by acquiring knowledge of the facts concerning the post-mortem existence and the things we may expect to see, for then we shall know what to look for, and neither be frightened, astonished, nor incredulous when we commence to obtain glimpses of these things.

Students should also realize that a serious responsibility goes with the possession of knowledge; "to whom much is given, of him much shall be required." If we hide or bury our "talent", may we not expect a merited condemnation?

The etheric sight is similar to the X-ray in that it enables its possessor to see right through all objects, but it is much more powerful and renders everything as transparent as glass. Therefore in the Aquarian Age many things will be different from now. For instance, it will be extremely easy to study anatomy and to detect a morbid growth, a dislocation, or a pathological condition of the body. Medical men will be able to study both anatomical structures and physiological process without hindrance.

The etheric vision will not enable us to see one another's thoughts, for they are formed in still finer stuff, but it will make it largely impossible for us to live

double lives and to act differently in our homes than we do in public. If we were aware that invisible entities now throng our houses, we should often feel ashamed of the things we do; but in the Aquarian Age there will be no privacy which may not be broken into by anyone who desires to see us. It will avail nothing that we send the office boy or maid out to tell an unwelcome visitor that we are "not in." This means that in the New Age honesty and straightforwardness will be the only policies worth while, for we cannot then do wrong and hope to escape detection. There will be people whose base characters will lead them into ways of wickedness then as now, but they will at least be marked so that they may be avoided.

The student can easily conjecture a number of other conditions that will result from the extension of sight which will come with the Aquarian Age, and by living as near to that state as possible, he will be placing himself in a position to become one of the pioneers of that age when "there shall be no night," and when the "tree of life" shall bloom unceasingly by the transparent etheric "sea of glass" which permeates all things.

When the Sun reached the tenth degree of Pisces, it touched the fringe of the influence of the constellation Aquarius, though we are still in the Piscean Age. That this influence is making itself felt, a glance of retro-spection will soon show . . . Invention has electrified the world and is now conquering the air. This scientific, intellectual influence will make itself felt more and more during the centuries which will pass before we definitely enter the constellation Aquarius by precession of the equinox.—*Max Heindel.*

RECENT AQUARIAN MANIFESTATIONS

ANNE PHILLIPS

SINCE the time, some forty years ago, that Max Heindel wrote of the characteristics of the Aquarian Age then apparent, there have been spectacular developments, as it is easy to see from the remarkable news items which crowd the pages of magazines and newspapers today. Many of these spectacular developments were already present in embryo during the decade that Max Heindel wrote his books and founded The Rosicrucian Fellowship, with its international headquarters at Oceanside, California. Even in the nineteenth century, the occult fiction of the time was replete with accounts of what seemed then miraculous developments. Marie Corelli in her *Romance of Two Worlds* introduced the ancient doctrine of rebirth to the Victorian public, but she also wrote in it a fine piece of science fiction, which in her day was classed with Aladdin and his wonderful lamp, but today, in retrospect, seems old-fashioned and quaint because all of her marvelous inventions, described in the *Romance*, have become common, everyday experiences in which everyone shares. The self-opening and self-closing doors, the "electrified" fountains which threw their spray into colored electric light which made it seem that the fountain itself was spraying forth rays of light; the "electric" music which spontaneously announced dinner instead of the clanging of a dinner bell — all this is run-of-the-mill today.

Slower to arrive were the wonderful airships described in the book *Dweller on Two Planets*, supposedly dictated by "Phylos the Tibetan" — the cigar-shaped airplanes, without wings, which cruised far above the storms of the lower atmosphere — these have only recently been realized in the jet planes.

Many people do not realize how much of modern science was actually anticipated by nineteenth and early twentieth century occult writers. Jules

Verne's stories are, of course, more widely known, because they did not include the "occult" world.

The concept that the so-called dead, after their purification and readjustment to conditions in the heaven worlds, return to help the human race prior to their coming back to rebirth, also finds a place in the science fiction of the eighteenth century and first half of the nineteenth century. Today these developments are taken up in the "ESP" schools of the universities, to a small degree at least; but at any rate, the door is open a crack, and as Dr. Steinmetz once observed, the next great development will be in the realm of the mental and spiritual — a fact which all thinking people today are coming to realize.

The outstanding prospect today is that of science learning to work with the electrical basis of life — another idea mentioned in *Romance of Two Worlds*. This "electrical and magnetic fluid" of the mesmerists (and of some physicists as well) is now being recognized within the biological organism, human, animal and plant. Physicians are learning to use electricity in many ways, by implanted devices such as pace-setters for the heart, for example; to send impulses into the nerves of paralyzed limbs, etc. But this is as yet only the outer fringe of the mystery of the nature and origin of "life" and energy in the organisms of earth.

The space ships which are now being planned for trips to the Moon and planets fill some people with alarm, as well as with repugnance at the thought of millions of dollars to be spent in developments which have no immediate benefit for earth dwellers. However, when we stop our expenditures for war, we shall have plenty of money, not only for renovating our blighted cities, but also to bring health, healing, and happi-

(Continued on page 66)

Origin and Development of the Brain and Mind

F. S.

(Conclusion)

THE mentality is determined by a number of factors in the horoscope. The sign Gemini and the planet Mercury are rulers of the third house, indicator of the lower mind, while Sagittarius and Jupiter rule the ninth house or higher mind. The rising sign has considerable influence on the type of mind, as has any planet placed near the Ascendant. Also significant is the position of Mercury in relation to the Sun.

The Moon in a horoscope denotes the instinctual mind, a residue, we may say, of the type of mind early mankind possessed when under the guidance of the lunar Angels. It is childlike and easily led, its reactions not being learned or directed by a conscious process of reasoning.

Man was put under the Law of Cause and Effect when he became sensitive to the vibrations of Mercury, which signifies the concrete mind. This planet is the originator of all vibratory movement, and hence a prime factor in the production of sensation and mental processes arising in the consciousness as a result, a secret which is embodied in the Staff of Mercury, a symbol devised by ancient seers. The undulating forms of the twin serpents in this symbol imply the well-known scientific fact that sensation depends on ability to feel and interpret vibration in air and in ether. The staff around which they twine indicates that there is a direct path to knowledge. This is the initiatory path of Neptune, the higher octave of Mercury. The staff goes through the winding forms of the serpents and signifies that at our present stage of development spiritual knowledge depends on the brain for concrete expression.

The vibrations of Neptune develop in man a spiritual consciousness which is

above and beyond human reason, but which nevertheless is also connected with reason in such a manner that when the result has been reached, the man who has this cosmic consciousness knows the reason why such and such a thing is and must be, or why he ought to take a certain action. Therefore the aspects of Neptune should be considered in determining the mentality.

At our present stage of development the mind cannot be used alone as a vehicle of consciousness. It is not yet a body in that its organs are not evolved. It is cloudlike, luminous, and surrounds and interpenetrates the head, its seed atom being in the frontal sinus at the root of the nose.

It is comparatively easy to change and cleanse the mind, since it is not as hard set and difficult to act upon as the Ego's three other vehicles (the desire, vital, and dense bodies), but the cleansing process needs to be repeated often for the same reason.

There is a definite work planned for the mind in the three Periods which are to follow the present Earth Period. In the Jupiter Period the mind will be vivified to some extent and man will be able to imagine forms that will live and grow. In the Venus Period the mind will acquire feeling, and man will be able to create living, growing, and feeling things. At the end of the Vulcan Period, he will be able to imagine into existence creatures that will live, grow, feel, and think.

There are members of our human life wave who have forged ahead and have gained entrance to the core of the Earth by means of the first of the Four Great Initiations, in which the mystery of the mind is learned. When a person is ready for this high initiation he has developed his mind to the degree all men are des-

tined to attain at the end of the Earth Period.

When an Ego is born into the Physical World his mind is a counterpart of the mind of the past life, minus the evil which has been expurgated and plus the quintessence of good which has been incorporated in the seed atom. However, his positive faculties are not active. The child is incapable of individual thought activity, but is sensitive to the forces working along the negative pole and is therefore imitative and teachable. The positive qualities must be ripened by the macrocosmic mind, and it isn't until the twenty-first year of life that the individual mind is born.

At about this same time, there is a union of the third part of the silver cord with the second part. The third part is made of mind-stuff and grows from the seed atom of the mind, which, as previously stated, is in the frontal sinus. Thence it passes downward and joins the second part in the liver where the seed atom of the desire body is located. When this junction takes place it marks a mental quickening and a consequent emancipation from Mother Nature. The individualized, indwelling Spirit may then work in its temple as it chooses, limited only by past actions. No real occult development is possible until the third part of the silver cord has been developed.

When a person is in the waking state, the mind works with the desire, vital, and dense bodies. The Ego functions directly in the subtle substance of the Region of Abstract Thought. The impressions made by the outer world upon the vital body through the senses, together with the feelings and emotions generated by them in the desire body, are mirrored in the mind. From these mental images, conclusions or ideas are formed in the substance of the Region of Abstract Thought. The will of the thinker projects the idea through the mind where it takes shape as a thought form by drawing mind-stuff around

itself from the Region of Concrete Thought. This thought form is ensouled by the will of the thinker and may be projected in one of three directions: (1) against the desire body; (2) upon the reflecting ether of the vital body; (3) toward the mind or desire body of another person.

When the thought form is projected against the desire body and interest is awakened, one of the twin forces, Attraction or Repulsion, will be stirred up. If Attraction, the centripetal force is aroused; it seizes the thought, whirls it into the desire body, endows the image with added life and clothes it with desire-stuff. Then the thought is able to act on the etheric brain and propel the vital force through the appropriate brain centers and nerves to the voluntary muscles.

The activities of the mind and desire body destroy the dense vehicle which in time collapses. The Ego, together with the mind and desire body, withdraws, leaving the dense and vital bodies in the state called sleep. It takes the higher vehicles into the Desire World, where their rhythm and harmony are restored as the harmonious vibrations of the Desire World flow through them. They then commence to work on the vital body, which in turn restores the dense body.

During the daytime the silver cord is coiled in a spiral in the dense body near the solar plexus, but when the Ego leaves the body during sleep the silver cord protrudes from the skull. The mind and desire body, resembling a captive balloon, float above near the sleeping form. There, as far as a child and an undeveloped adult are concerned, the Ego remains.

But if a suitable soul body has been developed, after proper training and initiation the Ego may roam the wide world. When the Ego returns to the body the waking state takes place again and the person may or may not remember its experiences in the spiritual

worlds. If not, both consciousness and memory are either lacking or faulty.

Max Heindel tells us that while visiting the Temple (etheric) in Germany on the invisible planes, he contacted an acquaintance from the Pacific Coast of the United States. When they met again in the Physical World the acquaintance could not recall events that had happened. Upon investigation it was found that he used tobacco and drugs, practices which clouded his brain.

This leads us to the relationship of mind and its instrument, the brain, to spiritual development.

In the brain there is a substance which is found there in greater quantity than in any other part of the body. That substance, phosphorus, is to supersede albumen, its proportion and variation corresponding to the state and stage of the intelligence of the individual. Idiots have very little phosphorus, shrewd thinkers have much. Foods containing phosphorus in large quantities are grapes, onions, sage, beans, cloves, pineapples, the leaves and stalks of many vegetables, and sugar cane juice — but not refined sugar.

The name phosphorus, which means "light-bearer", was given by teachers of the Greek Mystery Schools, who knew that in the measure that we are able to assimilate the substance we become filled with light and begin to shine from within. The phosphorus, however, is only a physical medium which enables the spiritual light to express through the physical brain, the light itself being the product of soul growth. But soul growth enables the brain to assimilate an increasing amount of phosphorus. Hence the method of acquiring this substance in large quantity is not by chemical metabolism, but by an alchemical process of soul growth.

According to recent scientific findings life can be prolonged by proper stimulation of the brain cells. *The Rosicrucian Cosmo-Conception* states that if our minds are occupied with such subjects

as mathematics, or the study of planetary phases of evolution, we are in the region of purely abstract thought, beyond the influence of feeling, and the mind is directed upward toward the spirit realms. It also mentions concentration and other exercises which are beneficial in the training of the mind.

In the Lord's Prayer, there is a special section for the mind, "Deliver us from evil." The meaning of this part of the prayer is that we may be delivered from the experiences resulting from the alliance of the mind with the desire body. When we acquire the power (by living pure and helpful lives) to direct the blood where we *will* to send it, we may refuse to send it to the left side of the brain (governed by Mars) and "Babylon, the city of Lucifer will fall." At the same time we may send the blood to the right side of the brain (governed by Mercury, ruler of the concrete mind) and thus build the "New Jerusalem". Then we will have been "delivered from evil."

The process of becoming able to use both sides of the brain is indicated in the Western Wisdom Teachings as follows:

"The ray of Neptune carries what occultists know as the Father Fire, the light and life of the Divine Spirit, which expresses itself as *will*. This it focuses in the voluntary nervous system of the physical body governed by its lower octave Mercury, which acting through the right brain galvanizes the body into speech and action, expressing the will of the indwelling Spirit.

"By . . . diversion of the creative energy the human being ceased . . . to be a physical hermaphrodite, a complete creative unit, and was then compelled to seek a mate in order to propagate the species. Therefore the Son, the Cosmic Christ, focused the love-ray of the Life Spirit upon Uranus (ruling the pituitary body), who transmits it to the vital body where Venus, the lower octave of Uranus, gives it expression in

propagation and growth.

"The ray of Uranus is gradually forging a second spinal cord by drawing the lower love-ray of Venus upward and transmuting it to altruism, conquering for it the dominion over the sympathetic segment of the present spinal cord and the left cerebral hemisphere now ruled by the passionate hierarchy of Mars, the Lucifer Spirits. This work has been completely accomplished by the Adepts. Therefore . . . each is now a complete creative unit on both the physical and the spiritual planes, having turned the bi-polar creative force, masculine and feminine, upward through the double spinal cord, illuminated and raised in potential energy by the spinal spirit fires of Neptune (Will) and Uranus (Love and Imagination). This creative energy conceives in the twin hemispheres of the cerebrum, ruled by Mars and Mercury, a vehicle fit for the expression of the Spirit, which is then sent out and objectified in the world by the spoken creative word."

Thus the Way has been shown to us, and the coming of the Christ opened the Door for all. Since the time of the Crucifixion we have been going through a process of emancipation from the Race Spirits; the Ego is evolving free will and responsibility. It would seem therefore that the individual is being given a greater opportunity to form and direct his mind body, which is still in the first stage of development, than he had when evolving his other three vehicles. Neptune rules the sign Pisces through which the Sun by precession is now passing.

In a few hundred more years the Sun will be going through Aquarius, ruled by Uranus. Already their orbs are touching, and as the brain and spinal cord absorb stellar rays we find higher scientific and humanitarian ideas "coming through" the individuals who are capable of responding to the Aquarian vibration. It is the individual's responsibility as to how he uses these vibrations.

The most insidious of all wrong is that done on the mental plane of action. The hypnotist who misuses the creative force of the Holy Spirit which works through the brain, commits a sin which must be expiated in later lives by suffering in debilitated bodies. When man learns to use his intellect for the good of humanity "he will then be a safe guardian of the *thought-power* whereby he will be able to form accurate ideas which will be immediately fit to crystallize into useful things. This will be accomplished by means of the larynx, which will speak the creative *Word*."

(EDITOR'S NOTE: *Part I of this fine article was published in the June, 1967, issue of the RAYS. We regret that this concluding part was not published earlier.*)



The Egyptians belonged to our present Aryan race, while the Aztecs show the peculiarities of skull, eye orbit, and hair distinctive of the Atlantean people. Therefore that civilization is older than the Egyptian . . . The pyramids (of Egypt) were temples of initiation, built by the Hierophants of the Lesser Mysteries, and as initiation of candidates is founded upon the passage of the stars through the twelve signs of the zodiac, so naturally these temples of initiation embodied all the cosmic measurements. Only the pyramid of Cheops among the Egyptian group was thus used. The others were simply imitations built at later times by some of the Pharaohs. The Lesser Mysteries have existed in different parts of the world and at various times, in India, in Egypt, in Greece, and also in Central America. Therefore, the connection between the pyramid builders of one part of the world and another is that they were all the Hierophants of the Lesser Mysteries and that their temples were used for the purpose of initiation.—Max Heindel.

Questions and Answers on the Ethers

A PROBATIONER

Part III — *Continued*

TO the occultist there is no really "dead" matter, nor "material" Space, nor is Space a vacuum, nor Time a meaningless concentration of events.

More than ten years ago physicists and mathematicians had already begun to relate the sub-atomic particles to the three dimensions of space and the fourth dimension of time. We quote a news item from *Science News Letter* of May 15, 1954:

8-D ATOMIC "SPACE"

Scientists are really visualizing a sort of 8-dimensional world in order to have enough "space" in which the subatomic particles can perform the most fundamental acts in the universe.

To understand and explain the actions of sub-nuclear particles, it is necessary to take mental flight into realms that are difficult to imagine concretely. Actually, the scientists do not talk about dimensions but "degrees" of freedom."

Dr. Freeman J. Dyson, professor of physics at the Institute for Advanced Study, Princeton, N. J., explained this sub-atomic situation in a National Academy of Sciences lecture.

His explanation of what is called "product space" as postulated by the Princeton mathematical physicist, Dr. A. Pais, runs something like this:

If a line is multiplied by a line, through every point of a line we imagine a new line and these determine a plane.

If a line is multiplied by a circle, so that each point on the line becomes a point on a circle as well, the result is a cylinder.

If a circle is multiplied by a circle, each point on the first circle becomes also a point on the surface of a new circle at right angles to the first. The resulting figure is a ring-shaped, doughnut-like solid, which the geometers call a torus.

Passing from these two- and three-dimensional figures to the world in which we live, we can imagine that we can extend this kind of development of figures into some other kind of space which we will consider to be at right angles to the space we live in.

In this new space, every point in space as we see it would be replaced by a tiny sphere. The important properties of such a sphere are the fact that a point on its surface can shift around from one side of the

sphere to the other, and that, while doing so, that point could have its own bodily rotation, or spin.

However, physicists are still not satisfied with this new kind of space, because it does not give them enough degrees of freedom to account for the many kinds of sub-nuclear particles. Our world is not three-dimensional only, but is a space-time continuum.

In the new world just imagined, an additional dimension, corresponding to the fourth dimension time gives us, would offer enough dimensions for the particles.

We have seen that it was not so long ago that the theory of parity had to be modified according to which it made no difference in Nature whether a force were left-handed or right-handed, and it was finally proved that it does make a difference — in certain circumstances, not in all. But though this "breakdown of parity" applied to a very small proportion of physical phenomena, chiefly in the field of radioactive decay, still it brought illumination to occult theories which had observed for many decades that forces in the inner worlds definitely flowed either right or left-handed, and that this did make a difference.

The four basic forces of physics, however, are now the same four: there is no "fifth" force so far as presently determined.

What physics must now recognize is that "Time" does make a difference in the way that matter and its forces act in the universe. It does make a difference whether the stream of events is moving backward or forward. The layman will be astonished that this could ever have been called to question. But mathematicians really did have some foundation for their time reversal invariance formula.

Of course scientific unfoldment proceeds at such a fast clip these days that we do not know what the future will disclose. The picture of particles and forces stands about as sketched in the foregoing paragraphs. Much of it cor-

roborates occult findings, and the trend is toward closer harmony between occult and physical science — so much so that physics and chemistry, and their biological counterparts — electrobiochemistry and electrobiology — are already “occult” sciences in the most revered sense of the word.

Part IV

VALUE OF SCIENTIFIC DIAGRAMS

One may agree with those physicists who say that diagrams are not to be taken at face value, as pictorial images of scientific realities. Such diagrams are usually merely schematic. They are not portraits of the atoms.

Occasionally, however, the diagram is really a very good representation of what the clairvoyant happens to see. But since this is not always true, diagrams in scientific publications should be used with the greatest caution by the occult student.

An example of this is an article in the October, 1963, issue of *Scientific American* (page 41), a remarkably clear and significant diagram which every occult student will do well to own. At the same time, the apparent simplicity of the diagram might lead to misunderstandings of etheric phenomena.

The diagram shows four divisions of the fundamental particles, in a simplified grouping, with both particles and anti-particles. The division-names given are Baryons, Mesons, Leptons, and finally the Photon. These four divisions do not, however, correspond to the four ethers as described by occultists.

The Baryons include the heavy Hyperons plus the Nucleons (Proton and Neutron).

The Mesons include the K Meson and Pion. (Intermediate mass.)

The Leptons include the Muon, Electron, and Neutrino. (The Muon was formerly included with the Mesons.)

The Photon, massless, at the bottom of the diagram, stands alone.

The Mesons have no spin; the Photon

has no mass according to this diagram.

Now it is not possible to say that each class represents one ether, with the Photon corresponding to the Reflecting Ether, for sunlight is an activity of the Photon. The other three divisions all concern the Chemical Ether, and verge upon the phenomena of the Life Ether at that point where, as the physicist says, matter and force are interchangeable. There are portions of the electromagnetic spectrum, apart from the range of visible light, which may also impinge on the Life Ether. Occultists have, in the past, always spoken of the ethers as “channels” *through which* cosmic force flows, and modern physics has not clarified its problems to the point where the clairvoyant can make a clear and accurate correlation of etheric forces, etheric substance, and the sub-atomic “waves” and “particles”. Our discussion is tentative, and subject to correction.

An illustration of the care with which all diagrams must be studied by occult students is a question propounded by one of them:

What ether do the radio waves travel through? Is this not the Life Ether?

The question is suggested, obviously, by the Table of Vibrations published in *The Rosicrucian Cosmo-Conception*, page 254.

Here it seems evident if one starts with the Chemical Ether at the bottom, then another segment of the vibrations will correspond to the Life Ether, another to the Light Ether (in the band of solar light), and at the top one reaches the realm of the Reflecting Ether.

The proposition is not without merit. There can be no question whatever but that the Light Ether of the occultist is found in the region or band of vibrations including sunlight and the range of waves immediately above and below — infrared and ultra-violet, heat waves, X-rays, etc.

But when we apply the same reasoning to the great radio waves, and sug-

gest that they travel in the Life Ether, we run into difficulties.

The truth is that we do not know which way is "up" and which "down" in interpreting such diagrams.

Matter resides chiefly in the nucleus of the atom, whose "vibration" on such a table — if it were included — would fall in the extreme upper range of the diagram. All that is "solid" in matter is in the nucleus of the atom, more especially, some physicists believe, in the neutron, which, when it carries a positive charge becomes a proton. The electromagnetic spectrum is a table of vibrations, or force, the quantum of which is the Photon, and this represents energy which is both absorbed by and emitted from the atoms.

Moreover, the "Strong Force" which binds the nucleus of the atom together is not electrical or magnetic, and of some "particles" which are also "waves" — like all particles — it is said that they are in no sense matter, although they course through matter. These are the meson and the neutrino — and perhaps the "quarks" if they exist. Doubtless the same thing can be said of other particles, too, which are found both in the atom and freely ranging in outside space. "Matter," so-called, differs from the electromagnetic spectrum in that it is "non-radiating." The electromagnetic spectrum, on the contrary, is *radiant energy*, from top to bottom.

We may postulate, however, that forces exist which, while they cannot be shown on a diagram of electromagnetic octaves, would be diagrammed, if this could be done, as impinging upon those octaves on a diagonal, or transversely. That is, to every octave of the electromagnetic spectrum one might appoint a cross-force from another dimension, which, while not an "octave" in the up-and-down direction of the diagram, might be called a horizontal octave, an octave extending to right and left, or diagonally. This would represent the etheric forces known to occult science, which include the Life Force, desig-

nated mystical by physical science, and which is also a kind of Fire.

If this is so, the Chemical Ether relates rather more to the forces of the atom than to the electromagnetic spectrum; but of course, as we have said, the photon (unit of electromagnetic spectrum) is involved in atomic action, being both absorbed into and emitted from atoms. That is, atoms absorb and also emit radiant energy.

The four Ethers do not correlate with the four strata (sixty octaves) of the electromagnetic spectrum, but with the molecular, atomic, electronic, and nuclear aspects of all matter; the Light Ether alone would seem to relate to the entire electromagnetic spectrum in the final analysis, although until modern times the term Light Ether covered *only* the segment of vibrations belonging to Light and Color.

The as yet little understood forces resident within the atom, especially within the nucleus, would reasonably be the vantage ground of the Life Ether, for it is there that Matter and Force are interchangeable, allowing for the transmutation of matter which alone can make for organic life and growth.

The Reflecting Ether would not be shown on the diagram, because it is the *whole field in which the other forces operate*. That is, it is "Space," as an entity, in which Life evolves.

Diagrammatically speaking, the Reflecting Ether is the paper on which the diagram is printed! It is not a part of the diagram!

What is the Relationship of the Reflecting Ether to forces and forms of thought?

Every student of occult phenomena has observed, as the mathematician Hinton observed a generation ago, that it is possible to image an object vividly until it is clear to the eye of the mind; then opening the eyes, to see this mental image hanging, as it seems, in the very space of the room in which he sits.

Hinton was surprised, apparently,

when this happened to him. Yet it often happens in all sorts of meditation and contemplation, whether scientific, mystical, or artistic. Goethe could "hallucinate" a rose, we are told. Writers have often said that their imagined characters seem to take on a life of their own, and sometimes run away with the story. Edith Wharton said that one of her characters appeared to her and asked her to write her story.

Actually, when the thought form seems to be *hanging in space*, or moving about in space, it has been projected from the Reflecting Ether into the border of the Light Ether, where it is sometimes seen drifting away, as if carried on cosmic tides.

The Light Ether image will then crystallize or chemicalize into a material form in the course of time, if the conditions are right. If the conditions are not right for chemicalization, the thought-form drifts away and dissipates itself in the space-waves.

Now just as optical illusions are recognized by physical science, so also, at this point, the occultist recognizes that hallucinations may occur, and that it is necessary to have fairly good control of the imagination to prevent such hallucinations. This is why the Mystery School teaches its students to *imagine vividly* certain objects, in the exercise of concentration. The disciplined imagination, when governed and directed by the logical mind, is not susceptible to hallucination, but it creates vivid images, which, visualized mentally and projected into the Light Ether by way of the Reflecting Ether, can affect matter in space and time.

The supposed roles of neutrinos, in gravity, of monopoles in magnetism, or the sub-nuclear particle as suppositional carrier of the "weak" force in physics, or the pion as hypothetical carrier of the nuclear strong force, are even more speculative than anti-matter or anti-gravity; but extremely important for all that, both to the physicist and the clairvoyant or occult investigator. We

may say, apropos of this last statement, that one can no longer differentiate sharply between the old-line "occult" science and physical science; for physics, today, in its atomic aspect and especially nuclear physics is in reality an "occult science"; while chemistry, especially biochemistry, by the same token, has taken the place of the old alchemy, as most scientists today are fully aware. It is acknowledged, indeed, that the medieval alchemists failed, not because of a basically false hypothesis, but because they did not have the laboratory equipment to carry out the needed experiments.

The student in the modern Mystery School is urged to work on the many problems involving extrasensory perception and its relationship to the great world about him, and to correlate where he can all that he learns with the findings of the academic scientist; for by so doing he will develop intellectual clairvoyance, if no other kind. Many physicists today admit to the value of "intuition," in the form of dreams, visions, hunches, inspirations — or even accidents! — in their scientific enterprises. Psychologists and philosophers recognize that "intuition" has an important role in the mental process.

We cannot wait for a great teacher or thinker to come into the world to "reveal all things" in a flash of supersensory revelation.

The "Golden Wedding Garment" of the advanced occultist — not yet the Adept — shows the basic golden or golden-white color of sunlight, and is literally on the borderline of matter. One may say of this Light Ether Body that *perhaps* it may consist of photons, and that its "anti-photons", which are physically non-existent, are the correlative units in the Reflecting Ether, which is also non-physical, and that the anti-photon represents the points at which the thought-form is projected from the Reflecting Ether into the Light Ether.

Another important aspect of modern speculative science is the relationship

of "anti-matter" to the Reflecting Ether. Anti-matter, though a "reflection" of ordinary matter, is a real matter; it is not a thought-form or mental image. This is the difference between the anti-photon and the anti-proton, anti-electron (positron), etc. The latter are real particles of matter or force. The anti-photon may be said to have only a "mathematical" existence. We have shown previously that all of the three lower ethers may be described as "within" the Reflecting Ether, and their "anti-images" are there, too.

The student in the modern Mystery School, like all human beings everywhere, must do his own thinking and be ready for the great inrushing tide of spiritual illumination which comes once in every age.

RECENT AQUARIAN MANIFESTATIONS

(Continued from page 57)

ness to the entire world population. In addition to which, there would be money to spare to develop the air ships for interplanetary as well as interstellar travel and exploration.

In *Dweller on Two Planets* it is also fascinating to see a description of what we call today "television" screens, which took the place of telephones such as we have, because with a flick of a switch the reflected image of the person being "called" appeared on a screen and a normal conversation could be carried on. This is still just a bit in the future for the public today, but it is almost ready, in the laboratories, and it should not be too long before it is available for widespread everyday use.

The healing arts are those, however, in which mankind naturally feels the greatest interest. First, in the betterment of living conditions so that there will be a good, solid basis for health for everyone. Second, a knowledge of how to work with the life forces to erase diseased conditions and to rebuild tis-

sues and organs which have been damaged.

Immortality for a defective body would not be an ideal condition by any means; but immortality for the perfect, etherealized and beautiful body of the New Age Mankind is another matter. Such immortality is not a mere continuing existence in a physical body. It is a vital and dynamic life in a beautiful and spiritualized body, which has all the capacities of the physical senses raised to a much higher power, and enabling the immortal one to live in the physical and spiritual worlds at the same time, in a rightly ordered world where there is no sorrow or suffering; and where, if evil does exist, it is recognized and handled before it can do any real damage.

Thus we look to the One World of God and Man in the coming Aquarian Age, with the *first* conquest to be that of war, so that men can meet and settle their differences in peace, and use their substance and wealth in building up civilization on earth fit for gods to dwell in. As St. Paul said, "Have I not said, Ye are gods?" Truly, if we are "Sons of God" then we are "gods" — and the sooner we demonstrate this the better.

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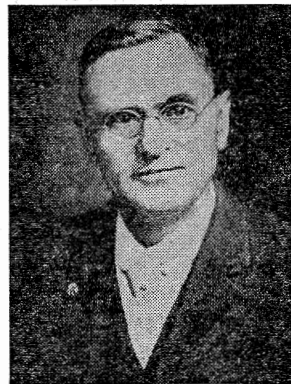
Taken from His Writings

THE VITAL BODY

TWENTY-SIXTH INSTALLMENT

The Vital Body of Animals and Plants

General Nature and Function



ANIMALS and plants have a vital body, too. Although this vehicle is lacking in the mineral, the disintegration of hard rock, etc., affects the vital body of the Earth.

When we consider plant, animal, and man in relation to the Etheric Region we note that each has a separate vital body in addition to being penetrated by the planetary ether which forms the Etheric Region. There is a difference, however, between the vital bodies of the plants and the vital bodies of animal and man. In the vital body of the plant only the chemical and the life ethers are fully active. Hence the plant can grow by the action of the chemical ether and propagate its species through the activity of the life ether of the separate vital body which it possesses. The light ether is present, but is partially latent or dormant and the reflecting ether is lacking. Therefore it is evident that the faculties of sense-perception and memory, which are the qualities of these ethers, cannot be expressed by the plant kingdom.

Turning our attention to the vital body of the animal we find that in it the chemical, life, and light ethers are dynamically active. Hence the animal has the faculties of assimilation and growth, caused by the activities of the chemical ether and the faculty of propagation by means of the life ether — these being the same as in plants. But in addition, consequent upon the action

of the third or light ether, it has the faculties of generating internal heat and of sense-perception. The fourth ether, however, is inactive in the animal, hence it has no thought nor memory. That which appears as such will be shown later to be of a different nature.

The separate Ego is definitely segregated within the Universal Spirit in the Region of Abstract Thought. It shows that only man possesses the complete chain of vehicles correlating him to all divisions of the three worlds. The animal lacks one link of the chain — the mind; the plant lacks two links — the mind and desire body; and the mineral lacks three links in the chain of vehicles necessary to function in a self-conscious manner in the Physical World — the mind, the desire, and the vital bodies.

When an animal is to be born, the Group Spirit, helped by nature spirits and Angels, fashions the vital body of the coming animal, which is then deposited in the womb of the mother and the seed atoms are deposited in the semen of the male; then gestation takes place and an animal is born. Without the presence of the seed atom and the matrix vital body no dense animal body can be formed. Similar conditions govern fecundation in the case of an egg, or a plant seed. They are like the female ova — they are so many *opportunities*. If an egg is put into an incubator or under a hen, the Group Spirit sends

forth the requisite life, accepting the opportunity for embodiment. If a seed is dropped in the soil, that also is fertilized when the proper conditions have been made for its development, but not before. When an egg is crushed, cooked, or in other ways disqualified for its primal designation, or where a seed is stored for years perhaps, there is no life, and consequently we do no wrong when we use these products for food. It is even beneficial to plants when the ripe fruits are removed, because then they cease to take sap from the tree unnecessarily.

The animal has no "individual" Spirit yet, but has a so-called Group Spirit, which informs all the members of a species. The separate animals have three bodies — a dense, a vital, and a desire body — but lack one link in the chain: mind. Hence animals do not ordinarily think, but as we "induce" electricity in a wire by bringing it close to another which is charged, so in a similar way by contact with man a semblance of thought has been "induced" in the higher domestic animals, such as the dog, horse, and elephant. The other animals obey the prompting (which we call instinct) of the animal Group Spirit. They do not see objects in such clear outlines as does man; in the lower species the animal consciousness resolves itself more and more into an internal "picture-consciousness", resembling man's dream state, except that their pictures are not confused, but convey perfectly to the animal the promptings of the Group Spirit.

The animal Spirit has in its descent reached only the Desire World. It has not yet evolved to the point where it can "enter" a dense body. Therefore the animal has no individual indwelling Spirit, but a Group Spirit, which directs it from without. The animal has the dense body, the vital body, and the desire body, but the Group Spirit which directs it is outside. The vital body and the desire body of an animal are not entirely within the dense body, espe-

cially where the head is concerned. For instance, the etheric head of a horse projects far beyond and above the dense physical head. When, as in rare cases it happens, the etheric head of a horse draws into the head of the dense body, that horse can learn to read, count, and work examples in elementary arithmetic. To this peculiarity is also due the fact that horses, dogs, cats, and other domesticated animals sense the Desire World, though not always realizing the difference between it and the Physical World. A horse will shy at the sight of a figure invisible to the driver; a cat will go through the motions of rubbing itself against invisible legs. The cat sees the ghost, however, without realizing that it has no dense legs available for frictional purposes. The dog, wiser than cat or horse, will often sense that there is something he does not understand about the appearance of a dead master whose hands it cannot lick. It will howl mournfully and slink into a corner with its tail between its legs.

Dr. McDougall also tried his scales in weighing dying animals. No diminution was found here, though one of the animals was a large St. Bernard dog. That was taken to indicate that animals have no souls. A little later, however, Professor La V. Twining, head of the Science Department of the Los Angeles Polytechnic School, experimented with mice and kittens, which he enclosed in hermetically sealed glass flasks. His scales were the most sensitive procurable and were enclosed in a glass case from which all moisture had been removed. It was found that all the animals observed lost weight at death. A good sized mouse, weighing 12.886 grams, suddenly lost 3.1 milligrams at death.

A kitten used in another experiment lost one hundred milligrams while dying and at its last gasp it suddenly lost an additional sixty milligrams. After that it lost weight slowly, due to evaporation.

(Continued)



Studies in the Cosmo-Conception

This department is devoted to a study of the Rosicrucian Philosophy by the Socratic Method, the material being taken from the Rosicrucian Cosmo-Conception.

Meditation

Q. What follows concentration in the process of spiritual attainment?

A. When the aspirant has practiced concentration for some time, focusing the mind upon some simple object, building a living thought form by means of the imaginative faculty, he will, by means of meditation, learn all about the object thus created.

Q. What object might be best for practice in meditation?

A. Supposing that the aspirant has, by concentration, called up the image of the Christ. It is very easy meditatively to recall the incidents of His life, suffering, and resurrection, but much beyond that can be learned by meditation. Knowledge never before dreamed of will flood the soul with a glorious light. Yet something that is uninteresting and does not of itself suggest anything marvelous, is better for practice. Try to find out all about a match, say, or a common table.

Q. What can one imagine about a table?

A. When the image of the table has been clearly formed in the mind, think what kind of wood it is and whence it came. Go back to the time when, as a tiny seed, the tree from which the wood was cut first fell into the forest soil. Watch it grow from year to year, covered by the snows of winter and warmed by the summer sun, steadily growing upward — its roots meanwhile constantly spreading under the ground.

Q. How do we develop this image?

A. First it is a tender sapling, swaying in the breeze; then, as a young tree, it gradually stretches higher and higher toward the air and the sunshine. As the years pass, its girth becomes greater and greater until at last one day the logger

comes with his axe and saw gleaming as they reflect the rays of the winter Sun.

Q. What detailed procedure must now be followed?

A. Our tree is felled and shorn of its branches, leaving but the trunk; that is cut into logs which are hauled over the frozen roads to the river bank, there to await the springtime when the melting snow swells the streams. A great raft of the logs is made, the pieces of our tree being among them.

Q. How would we recognize our logs?

A. We know every little peculiarity about them instantly among thousands, so clearly have we marked them in our mind. We follow the raft down the stream, noting the passing landscape and becoming familiar with the men who have the care of the raft and who sleep upon little huts built upon their floating charge. At last we see it arrive at a sawmill and disbanded. One by one the logs are grasped by prongs on an endless chain and hauled out of the water. Here comes one of our logs, the widest part of which will be made into the top of our table. It is hauled out of the water to the log-deck and rolled about by men with peavies.

Q. Does one ever hear in such visualizing, or only see?

A. Yes, we must even "hear" the hungry whine of the great circular saws as they revolve so fast that they appear as mere blurs before our eyes. Our log is placed upon a carriage which is propelled toward one of them and in a moment those teeth of steel are tearing their way through its body and dividing it into boards and planks.

—Ref. : *Cosmo-Conception*, pp. 489-491.

(Continued)

WESTERN WISDOM BIBLE STUDY

The Man Healed of Dropsy

CORINNE HELINE

And it came to pass, as he went into the house of one of the chief Pharisees, to eat bread on the Sabbath day, that they watched him.

And, behold, there was a certain man before him, which had the dropsy.

And Jesus, answering, spake unto the lawyers and Pharisees, saying, Is it lawful to heal on the Sabbath day?

And they held their peace. And he took him, and healed him, and let him go;

And answered them, saying, Which of you shall have an ass or an ox fallen into a pit, and will not straightway pull him out on the sabbath day?

And they could not answer him again to these things.—*Luke 14:1-6.*

Christ Jesus, the Lord of Love, centered His work in the supreme Law which is Love. He lost no opportunity of teaching and demonstrating this fundamental truth whenever He could and wherever He might be. On this occasion, as on a previous Sabbath, He sought to teach the literalists the preeminence of Love over the rigid and formal code which was the only law they knew. This He achieved by healing a man of dropsy, in defiance of the Sabbatical laws which the literalists interpreted to prohibit anything in the way of labor on the Sabbath, even if it were the divine labor of healing.

The Sabbath observance was one of many customs which the Hebrews inherited from Chaldea. The Chaldeans observed five Sabbaths a month, and it was they who divided their month into the weekly period of seven days, dedicated successively to the Sun, Moon, and five planets. This division of time was in use in Chaldea even so long ago as the time of Abraham, who, as a Chaldean Prince, must have been familiar with it before he heard the voice of a New Revelation calling him to go forth into a new land. An Assyrian calendar explains that the Sabbath means "completion of work, a day of rest for the

soul." It appears that it was unlawful to cook food, to change clothing, or even to sacrifice on the Sabbath; and the king was forbidden, we are told, to speak in public, to ride in a chariot, to perform any kind of military or civil duty, and even to take medicine on this day.

As there were five Babylonian Sabbaths each month, there were sometimes more than one in a week. These Sabbaths, however, were not dedicated to any particular day, but came regularly on the 7th, 14th, 21st, and 28th day of the month, regardless of the day of the week on which those dates fell. Thus all the star deities received homage in regular succession, and if any Sabbath was any holier than another that was due to the special reverence felt for certain gods in localities sacred to them from remote antiquity. Not only the Assyrians and Jews but also the Phoenicians shared the Babylonian Sabbath observance.

It is significant that of these Sabbaths, the Jews selected for special observance only the Day of Saturn, or Saturday, the seventh day of the week. Seven is the number of completion, enfoldment, rest, assimilation. Thus in the course of time their Sabbatical laws expressed more and more the rigidity of the Saturnian principle in its negative, or formalistic, aspect. Christ Jesus came bringing a new pronouncement, the power and light of a New Day and a New Age, based upon the Solar Principle. It has been frequently remarked by astrological students of such matters that the word "Satan" derives from Saturn, and in the Arabic language "Shaitan" means "He who despairs." Arabic and Hebrew bear much the same resemblance as we find between Spanish and Portuguese.

The Day of the Sun sponsored by the Christ bears a much deeper significance than the average individual comprehends. The Sun is the center of life, light, and love for the entire solar system to which this Earth belongs. The Sun's Day therefore should be the day in which we dedicate ourselves to becoming miniature suns, centers of radiating love, light, and helpfulness as far as the radius of our influence extends.

Sunday is the first day, the New Day, the beginning of a new week, a time for the assimilation of the soul essences extracted from the experiences of the preceding week; and this assimilation is the starting point of a *new process*, for which it is the alchemical stone of tincture. The new Sun Laws of fellowship, equality, and oneness which Christ Jesus championed, and which He immortalized in the Sermon on the Mount, are yet, even after two thousand years have elapsed, a center of controversy wherever an individual or a group has caught a vision of their meaning and endeavored to introduce them into practical, everyday living. Had mankind followed the Sun Laws of Christ instead of the Saturn Laws of the Scribes and Pharisees the world would not be the confused place it is today.

On another Sabbath the Master tried to teach the supremacy of Love over Law when He healed the withered hand publicly. On this Sabbath Day He endeavored to soften the Pharasaic obduracy by healing the dropsical man in the home of one of the leading Pharisees where He had gone to partake of the sacred Sunday meal. But minds and hearts were closed to His teachings, hence their ultimate destiny was the loss of all those *things* which they put before Christ. The same fate awaits the modern followers of pharisaical law, be they Jew, Christian, or pagan.

In the lesson which the Christ gives immediately following the healing of the man with dropsy, He conveys a subtle intimation as to its cause and ultimate cure. This is to be found in the parable

of humility wherein He admonishes those who come to the banquet to be content with the lower seats until invited by the host to come higher. He then adds the formula for true spiritual attainment which all Masters of Wisdom have handed down since the beginning of time, but which, even to this modern day, is the most difficult for the aspirant to accept and follow: "For whosoever exalts himself shall be humbled; and whosoever humbles himself shall be exalted."—(Luke 14:11.)

(Continued)

Needless for me to tell you how much the *Rays* has meant to me. With my study of the *Cosmo* and the Bible Lessons, the *Rays* has been my favorite magazine. I look forward to its arrival each month. God bless you all for the wonderful enlightenment you are projecting out to the world.—L.S.



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The Solar Cycle

ROBERT L. TRAFFORD

THE SOLAR MONTH OF AQUARIUS

A STUDY of the sign Aquarius brings to our consciousness a soul-stirring view of the Divine Plan in operation.

Science, through its tireless searching, has given us the outer picture of the universe, and from the vast telescopic field of the heavens to the microscopic field of the atom, its findings tell the same story of infinite intelligence, infinite harmony, and infinite order in the operation of Nature's laws.

The occult student earns the inestimable privilege of glimpsing the inner working of these laws. He learns that all lines of force operating in the universe emanate from God, the Source and Center of all Life. He learns that these forces flow through and are directed by Godlike Beings, grouped into the twelve Hierarchies of the zodiac, and by the Planetary Spirits of our solar system, who serve as their intermediaries.

Rank upon rank they stand, these Creative Hierarchies, reaching from Man (the lowest of the twelve) upward to the Angels, Archangels, Lords of Mind, Lords of Form, and still upward on an ascending scale of power to the blinding glory of Him in whom all live and move and have their being. Each order, according to its character and evolutionary status, bears its definite Plan, and each by this work unfolds its own powers to an inconceivable degree.

Under the Hierarchies are myriads of lesser beings, also individualized, also working in the unbroken unity of the Spirit for a common end. The life waves below man (animal, plant, and mineral) respond unconsciously, and hence, without resistance, to the play of the Cosmic Forces. All above man are in conscious accord with these forces, and taken together they present to us a magnificent picture of that unity in diversity to which we humans must attain before we can claim our birthright as Sons of God. In the midst of the mighty order and harmony of the Cosmos, we have created a kingdom of confusion all our own. With our free will, our marvelous physical instrument, our vital, emotional, and mental powers strongly developed, and our Spirit still groping for control, we, as a life wave, stand at the most critical point of our entire evolutionary career.

Every spiritual agency in the solar universe sheds its enlightening influence upon us in unseen radiance and beauty to help us round out our being to the fullness of its inherent power; but no Being of whatever degree may do the work for us. Individually, we must find our way to cooperate with our fellowmen in bringing that destiny to its fulfillment.

The Angels, our nearest neighbors on the ascending ladder of Life, constitute the Hierarchy of Aquarius; and their intimate work with us, as Ministering

Spirits, has played and is playing a tremendous part in our development. Through them there flows to us a stream of Divine Love that wraps the expectant mother in a veil of mystic light that makes her body a shrine for the protection of the unborn child. This angelic quality of Love we must learn to blend with the fiery influence of the Lucifer Spirits, to which we seem to have responded so much more eagerly. But the blending can be accomplished only when we have learned to observe the cosmic laws, hence Saturn, whose work is to teach the observance of the Law, is one of the rulers of Aquarius, the other being the magnetic and mysterious Uranus.

If we study the interplay of these two planetary forces in human life, it will help us to understand the ideals toward which we are to strive during the solar month of Aquarius. The Ray of Uranus lures man on to delve into the secrets of Nature; it incites him to ignore the arbitrary boundaries of thought set by the masses, and urges him to the original thinking which stimulates spiritual growth and builds individuality. Saturn helps him to coordinate his findings and reduce them to terms of practical living. But when these terms become too inflexible to allow continued growth, the force of Uranus shatters them, as the life force in a plant sometimes shatters the pot that would confine its expanding roots. Most of the events in our lives which appear to us as calamitous come under this category.

Saturn calls forth the love of justice, order, duty, and the sense of responsibility. These are qualities which lead men to associate themselves with others of like mind — though not necessarily of like temperament — in cooperative endeavors of all kinds. The influence of Uranus tends to raise the motives for such endeavors from the plane of utilitarianism to that of altruism. But through all efforts at cooperation we, God's earth children, are being prepared for the group work of the Aqua-

rian Age, work which will be immensely broader and higher in its scope than that of the present age.

If we are to keep pace with the advancing sweep of Evolution, we must begin now to make the Aquarian ideals active in our relations with each other. We must learn to pull together for the common good or fail to qualify for the step that lies ahead. We need to find our bearings in the universe of which we are a part; we need to learn to be a friend as God is a friend; we need to develop our physical, mental, and emotional powers to the utmost — to the end that we may have more to give of strength and light and love to the task before us. This is no less a task than lifting humanity to the spiritual level that will enable our life wave to meet the conditions necessary for advancement.

Individually, we do our part in this Cosmic Work when we strive persistently to live the teachings of the Christ, for He, as Wayshower, gave explicit instructions for the achievement of this

Horoscopes for Subscribers' Children

Should you wish to avail yourself of a possible opportunity to have your child's HOROSCOPE delineated in this department, subscribe to this magazine for one year, and accompany your subscription with an application for a reading. RENEWALS count the same as a subscription. Readings are given for children up to 14 years of age. They include a general character, health, and vocational analysis.

ONE name only is drawn each month, but unless there is an unusually large number of applications, you may have more than one opportunity for a drawing.

BE SURE to give: Name, Sex, Birth-place, and Year, Month, Day (of month), and Minute of birth, as nearly as possible. Also please be sure to state if Daylight Saving Time was in effect.

NOTE: We give horoscope readings ONLY in this magazine.

end. And it is heartening to remember that every spiritual advance on our part, great or small, raises the common level of humanity to a corresponding degree.

It is by living the teachings of the Christ that we learn to be a friend in God's way, that is, to preserve friendship toward our associates under any and all circumstances — through stress and strain, through problems and failures and mistakes, in agreements and disagreements. This is the friendship which recognizes in every imperfect, blundering human being a comrade on the road of life, a spark of Divinity, one with God and one with all that is. Only the eyes of Love can see this hidden essence of the Spirit in all forms; only Love can serve it at all times. Therefore, it becomes of supreme importance that we learn how to love.

Love, the sentiment, is bound up in personality and subject to all the upheavals of the personal life, and must be transformed into that Love which is a radiant power of the soul and which, being grounded in the Oneness of the Spirit, transcends all individual differences and harmonizes all discordant elements.

So great is the need of the world for this unifying Love that every sincere effort on our part to attain it is blessed a thousandfold by the Christ, and by the Great Ones who work with Him for our enlightenment. Under the Divine Law which gives man the right of choice, these Great Ones may not prevent us from using our forces destructively, but they may and do enhance and strengthen our every outpouring of good. For this reason every cooperative human endeavor directed toward altruistic ends will, if carried on in true love and friendship, rise above all difficulties and attain its goal.

The great pattern of unity in diversity presented to us in the Cosmos is reflected accurately in the cell life of our physical body. In this miniature zodiac, we find the same grouping of the

same individual units for specific work as in the great zodiac, and the same marvelous cooperation of group with group for the service of the whole. At present we interfere with the Cosmic Design being worked out in this wonderful physical vehicle of ours; but as we come into a deeper realization of the purpose of our existence, and strive more and more earnestly to adapt our lives to that purpose, a perfection similar to that of the great universe will be established in the body.

The particular area of the physical body correlated to Aquarius is the ankles, whose function, like that of the knees, is adjustment to movement.

While under the magnetic and stimulating influence of the Aquarius Ray, let us turn the searchlight of the Spirit upon our inner lives to find out just how we are using the function of adjustment to movement in relation to the forward motion of evolution.

The keywords for Aquarius:

ALTRUISM	FRIENDSHIP
TOLERANCE	COOPERATION
INDIVIDUALITY	ADJUSTMENT

1967 INDEX

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The Children of Aquarius, 1968

Birthdays: January 21 to February 20

AND he sendeth forth two of his disciples, and saith unto them, Go ye into the city, and there shall meet you a man bearing a pitcher of water: follow him.—Mark 14:13.

Christ Jesus was here referring to the man of the Aquarian Age, who will possess the progressive, humanitarian state of consciousness symbolized by the higher side of the fixed-air sign Aquarius. The "water" being poured forth represents the high spiritual vibrations emanating from this sign, which will be released in a glorious fullness upon humanity when the Sun by precession passes through the sign of the Water-bearer.

Aquarius is the third of the airy triplicity, the sign of fixed mind — the determined organizer. The ability to direct the mental faculties with purpose and concentration (Saturn) brings success to the Aquarian where others might fail, and, in addition, he possesses strong intuitive powers (Uranus) which make possible the acquisition of knowledge beyond the realm of reason. Science, literature, and philosophy are the fields in which these natives are to be found as leaders.

The higher type Aquarian is essentially humanitarian (Uranus), having acquired to some degree that broader vision and feeling which enables him to live in the "unity of each with all." Friends are extremely important to him, and his basic feeling of oneness with all humanity establishes an auric vibration that attracts people of all classes into his circle of friendship. High idealism and an innate urge toward the new and untried ways lift him above the fetters of convention and dogma, so that he appears eccentric to the more conservative type of person.

The less advanced type of Aquarian is apt to yield to the selfish vibrations of Saturn and direct his activities toward the accomplishment of purely personal objectives. The separative nature of the fixed mind tends to deny him the ability to live in that cooperative harmony with others which comes natural to the higher Uranian type. An overweening self-confidence may manifest to the point of lofty conceit.

Still in effect all during this solar month is the conjunction of Uranus and Pluto in Virgo, sextile Neptune in Scorpio, a powerful vibration of a basically progressive and spiritual nature. Children born during this period will be

attracted to the occult or mystical side of life, and may be in direct touch with the superphysical worlds and its inhabitants. Their intuition is strong, and they are apt to have prophetic dreams and visions. There is a love for travel, as well as a strong will with which to put dreams and plans into objective reality.

The Sun sextiles Saturn from January 21 to February 6, endowing those born during this period with method, foresight, and organizing, executive, and diplomatic ability, along with the moral stamina to carry on in the face of obstacles. There is a high sense of honor, and success in judicial, political, and agricultural positions is favored.

From January 21 to 30, Venus and Uranus are in square aspect, pointing toward the need for these natives to cultivate balance and poise in all matters. Otherwise, there are apt to be unhappy experiences to provide opportunities to learn the needed traits.

Mercury squares Neptune from January 24 to February 4 and February 8 to 20, a stellar pattern requiring intensive practice in concentration, memorizing, and constructive mental activity for its transmutation. A tendency toward restless desire for fame should be curbed.

From January 27 to February 7, Venus squares Saturn, indicating that those born with this vibratory pattern in their charts need to cultivate generosity, trustfulness, and impersonal love. The demons of jealousy, suspicion, and avarice can bring only unhappiness and suffering.

Mercury opposes Jupiter from January 30 to February 15, tending toward vacillation and procrastination in the nature. These natives should have honesty, sincerity, and trustworthiness emphasized in their training from early years.

From February 4 to 20 Mars trines Neptune, intensifying the emotional nature and giving a leaning toward the study and practice of occultism. The ability to penetrate into the invisible

worlds in a conscious manner is strongly favored.

Mars opposes Uranus from February 7 to 20, tending toward eccentricity, violence of temper, and coldness of nature. Emphasis on consideration for others, selflessness, and equipoise should be strong in training children born with this stellar pattern.

From February 8 to 20, the Sun and Neptune are in square aspect, raising the vibrations of the aura, but the undesirable inhabitants of the Desire World are apt to be attracted. Unselfishness, pure living, and dedication to service for others are necessary for transmuting this planetary pattern.

Venus sextiles Mars from February 10 to 20, giving an ambitious, aspiring, and adventurous nature, demonstrative in its affections and fond of sports and pleasures. Both the earning capacity and health are favored, but a tendency toward extravagance in spending should be curbed.

From February 11 to 20, the Sun and Mercury are in conjunction, favoring the mentality and memory on the days when the orb of aspect is three or more degrees.

Venus sextiles Neptune from February 12 to 20, pointing toward the inspirational musician. The imagination is fertile, the emotions deep, and the nature is pure and chaste. A soul-satisfying platonic companionship of the most esthetic nature is possible.

From February 13 to 20, Venus trines Uranus, making the native mentally alert, of quick intuitive perception, and exceedingly magnetic, especially to the opposite sex. Many friends are attracted, and there is a love for art, music, and poetry. An early happy marriage is also favored.

When you have given an astrologer the data of your birth, you have given him the key to your innermost soul . . . Only a tried friend should be trusted with this key to your soul.

—Max Heindel

Readings for Subscribers' Children

KARIN F.

Born October 23, 1963, 6:52 A.M.

Latitude 41 N., Longitude 73 W.

Signs on cusps of houses:

ASC, Scorpio 6.33	4th, Aquarius 14.00
2d, Sagittarius 6.00	5th, Pisces ..17.00
3d, Capricorn 9.00	6th, Aries ..15.00

Positions of the planets:

Venus13.44	Scorpio1st
Neptune14.51	Scorpio1st
Mars28.25	Scorpio1st
Moon4.15	Capricorn . .2nd
Part of F. . .11.27	Capricorn . .3rd
Dragon's T. .15.04	Capricorn . .3rd
Saturn16.28	Aquarius . . .4th
Jupiter12.29	Aries5th
Uranus8.49	Virgo10th
Pluto13.42	Virgo10th
Mercury21.02	Libra12th
Sun29.21	Libra12th

This little girl has fixed signs on all the angles, and four planets in fixed signs, so that she is quite stable and determined in her nature. However, she has Sun, Mercury, the Moon (individuality, mind, personality), and Jupiter in cardinal signs, pointing to a very active side of her nature, too. With only two planets in common signs, she may find it difficult to be as flexible as might be wise at times.

The Sun is in the last degree of Libra, so that its influence carries over into Scorpio also. The solar orb conjuncts Mercury (8 degrees), favoring the mentality and memory, and giving an interest in art, music, and partnerships. The Sun sextiles the Moon in Capricorn, a configuration which augurs well for general success in life, along with faithful friends and esteem in her community. A rise in life is favored because of Karin's innate ability, which will gain for her the recognition of people in a position to help her gain her objectives, or will impel her to carve her

own way. The trine of Mercury to Saturn gives the ability to think deeply and concentrate successfully.

With Venus and Neptune in conjunction in Scorpio in the 1st house (7 degrees from the ASC) and sextile to Uranus, this little girl is no doubt quite attractive and pleasing in her personality. She has a very strong emotional nature, and the best outlet for this is music — which she should learn easily and become quite proficient in. However, Saturn squares Venus and Neptune, which will bring personality problems for her to handle. If she is taught from early years to love and trust others (instead of being jealous and suspicious), her life will be much happier and progressive.

Mars is also in Scorpio in the 1st house, which indicates a strong, passionate nature, inclined to be domineering. However, Mars makes no aspects to strengthen it, so the power of Venus in Karin's nature should be sufficient for her to establish the gentler side of her nature over the martial tendencies.

Uranus and Pluto are in Virgo in the 10th house, the latter sextiling Venus, Neptune, and the ASC, and trining the Moon and Part of Fortune. The Sun-ruled Leo is on the cusp of the 10th. Professional life should be pleasant and profitable for Karin, but it is apt to be in the more unusual fields, such as electronics, astrology, etc.

Jupiter in Aries in the 5th is retrograde (holding back its power), sextile Saturn and square Moon. There is strength of character denoted here, along with a deep and philosophical mind and a strong sense of justice and fair play. Teaching, publishing, and pioneering are favored. The square of Jupiter to the lunar orb, though, suggests the need to overcome a tendency toward extravagance, indecision, and speculation. Care should be taken to avoid foods taxing to the liver, and to the digestion in general.

JAMINE L.

Born January 15, 1967, 11:40 A.M.

Latitude 52 N., Longitude 0.

Signs on cusps of houses:

ASC, Taurus 13.13	4th, Cancer	.18.00
2nd, Gemini 12.00	5th, Leo	....8.00
3rd, Cancer ..1.00	6th, Virgo	..13.00

Positions of planets:

Part of F. ...7.07	Cancer	.....3rd
Jupiter ... ..0.06	Leo	.....4th
Pluto ....20.25 R	Virgo	.....6th
Uranus ...24.18 R	Virgo	.....6th
Mars .....20.32	Libra	.....6th
Dragon's T. .12.30	Scorpio	.....6th
Neptune ....25.37	Scorpio	.....7th
Mercury ....23.02	Capricorn	..10th
Sun .....24.39	Capricorn	..10th
Venus .....10.53	Aquarius	..11th
Moon .....18.33	Pisces	.....12th
Saturn .....25.04	Pisces	.....12th

Here we have a child with Sun and Mercury in the ambitious sign Capricorn in close conjunction in the 10th house, a rather strong indication of a powerful urge and the ability to "reach the top". Although some of the power of Mercury is lessened by its being combust the Sun, both are strongly aspected, being sextile the Moon, Saturn, and Neptune, trine to Uranus and Pluto, square to Mars, and opposed to Jupiter. There is tremendous drive and ability for leadership in this child's nature, and the governmental and diplomatic fields will provide the best channels for the expression of the fine qualities and considerable talents indicated.

The numerous favorable aspects of the solar orb point toward general success in life, health, fair financial condition, good home surroundings with faithful friends, and esteem in the community. There is method, foresight, or-

ganizing, executive and diplomatic ability, originality, inventiveness, moral stamina, idealism, and a love for the occult. The memory is retentive, and the mentality alert and quick as well as able to concentrate and probe deeply. However, the Sun and Mercury square Mars and oppose Jupiter, indicating a discordant element which may, unless care is taken, lead to precipitous, unwise speech and action at times. A tendency toward extravagance and love of display may also sometimes manifest and have to be curbed.

The Moon in Pisces in the 12th conjuncts Saturn (six plus degrees), sextiles Sun, Mercury, and MC, trines Neptune, and opposes Moon and Pluto. Here we see indicated a receptive mind and a fertile imagination, with a tendency to be wordy in expression. The memory is retentive, there is a probability of prophetic dreams and visions, and the nature is inspirational and sympathetic. The opposition of the lunar orb to Uranus and Pluto, however, introduces a tendency toward conceit, intolerance, and touchiness which needs to be controlled. A possible clandestine attachment is likely to be unwise and productive of unhappiness.

Neptune in Scorpio in the 7th house sextiles Sun, Mercury, Uranus and Pluto, and trines Moon, Saturn, and Jupiter a very powerful Neptune, indeed! This child has undoubtedly worked in the Mystery Schools in previous lives and comes to earth life this time well equipped to help humanity toward the spiritual heights which are its destiny. As a religious, or occult leader, Jamine can give a very high type of service, and all partnerships can, with the use of available insight, be on a high spiritual basis.

Mars in Libra in the 6th is the point in this chart that needs most attention, since it squares Sun, Mercury, and MC. Harmony in all work relationships as well as faithfulness in partnerships, should be cultivated; and care taken in the diet so as to avoid fevers and inflammatory diseases.

VOCATIONAL GUIDANCE ADVICE

This page is a free service for readers. Since advice is based on the horoscope, we can give a reading ONLY if supplied with the following information: full name, sex,

place of birth, year, day of month, hour. No reading given except in this Magazine and ONLY FOR PERSONS 14 to 40 YEARS OF AGE.—EDITOR.

Secretary, Teacher

MARIA E. D. — Born November 4, 1953, 2:30 A.M., Latitude 21 N., Longitude 90 W. Here we find Mars, Moon, Venus, and Neptune all in the 7th house sign, Libra, indicating that this native's best work could probably be done in partnership with others. The Sun and Saturn are in the fixed, independent sign Scorpio, though, so there will be need for "give and take" in partnerships. The Sun makes no aspects; Saturn trines Jupiter in Gemini in the 10th. Mercury, which rules the Virgo ASC, in the first degree of Sagittarius sextiles Mars, giving a quick, keen mind. The conjunction of Moon, Venus, and Neptune in Libra bestows interest and ability in music and art, and Maria, with proper training, should find the teaching of music a satisfying vocation. She could also serve nicely as a secretary, translator, or possibly a postoffice worker.

Nurse, Insurance Agent

LYNN M. — Born November 29, 1953, 6:20 A.M., Latitude 42 N., Longitude 88 W. This chart shows the Sun intercepted in Sagittarius in the 1st house, unsuspected except for the conjunction with the ASC and the square to the MC. To offset this lack of solar-planetary power, we find Scorpio on the cusps of the 12th and 1st houses, and Saturn, Mercury, and Venus all posited in this martial sign. Mercury conjuncts Venus, sextiles the Moon in Virgo in the 10th (in conjunction with the MC), and trines Uranus in Cancer in the 8th. The mentality is quick, keen, and intuitive, and the memory is retentive. Mars and

Neptune in Libra in the 11th trines Jupiter in Gemini in the 7th, squares Uranus in Cancer in the 8th. This native could give rewarding service as a nurse, dentist, insurance agent, secret service worker, or as a trouble shooter in business.

Contractor, Counsellor

CHARLES E. C. — Born October 31, 1946, 3.47 A.M. Latitude 29 N., Longitude 81 W. The Sun, Jupiter, and Mars are in the powerful, fixed sign Scorpio in the 2nd house in this nativity. The Sun and Jupiter are in conjunction, trine the MC, but square Saturn and Pluto in Leo in the 11th. Mars sextiles the Moon in Capricorn in the 4th. There is much drive to succeed in this individual, and he will no doubt meet with a good measure of success in spite of the obstacles from Saturn—and "friends." Venus and Mercury are in close conjunction in Sagittarius intercepted in the 3rd, sextile the ASC, and trine Saturn in Leo in the 11th. This bespeaks a goodnatured, sociable disposition and an affable, persuasive personality, as well as the ability to concentrate and think profoundly — all of which help to make for success in any vocation. Libra on the ASC, and Neptune in the 1st house, give a refined, sensitive side to the nature, and although Neptune sextiles Saturn and Pluto, it squares the Moon — a warning against all negative psychic phenomena. The Moon rules the 10th house, is posited in Capricorn in the 4th, sextiles Mars, squares Neptune. As a contractor, builder, upholsterer, business counsellor, real estate dealer, or government worker, this native could give satisfactory service.

Daily Thought and Guide

These daily meditations are based partly on the planetary hours of the day, daily aspects and vibrations.

THURSDAY—FEBRUARY 1

This may be a difficult day when we do not understand everything clearly and Mars will give abundant energy for quick action. So let us be wise and try to understand and keep things balanced.

FRIDAY—FEBRUARY 2

Again we have to watch our step with care. Let us take some time out to pray for more understanding and all will be well.

SATURDAY—FEBRUARY 3

Today our minds will be active and helpful; let us read, study, and express ourselves. Seneca reminds us that: "It is our mind that makes us happy."

SUNDAY—FEBRUARY 4

This is the day of the Lord when our inner consciousness may bring us knowledge of Him who created us. There is power in this communion with God as well as Divine Grace.

MONDAY—FEBRUARY 5

Today Mercury is active and very strong and we may solve problems of long standing. Kindness and thoughtfulness toward our needy fellowman are much needed at this time and will be appreciated.

TUESDAY—FEBRUARY 6

Now we find few aspects and these are mixed. It may be well to heed St. Paul's advice to his followers: "Prove all things; hold fast to that which is good."

WEDNESDAY—FEBRUARY 7

We may receive some help today if we are serious in our struggle to improve ourselves. We may find some inharmony

in our daily life but we will be able to overcome it. Work and Pray.

THURSDAY—FEBRUARY 8

On this very quiet day music and poetry may have the opportunity to enrich our minds and hearts. Serene attention to our daily duties will make it a good day.

FRIDAY—FEBRUARY 9

Sun and Moon are in good aspect today, but Mars may try to push us too hard towards untimely action. Again attention to daily duties is best, "leaving unto the Lord the rest."

SATURDAY—FEBRUARY 10

Today Neptune helps us to keep spiritual things uppermost. The rest of the aspects of the planets are mixed and it may be well to rest and meditate. "In quietness shall be our strength."

SUNDAY—FEBRUARY 11

Today we should be alert to receive spiritual unfoldment and rejuvenation. "For God hath not given us the spirit of fear; but of power and love and of a sound mind."

MONDAY—FEBRUARY 12

This will be a time of noble aspirations, for spiritual forces abound and the strength to unite with them is also indicated; life's purpose can be fulfilled.

TUESDAY—FEBRUARY 13

On this day of anxiety much faith is needed. "Faith is a bird that sings while the dawn is still dark."

WEDNESDAY—FEBRUARY 14

In quiet attention to our inner life lies our safe course again today. Let us try to be thoughtful and kind and see that everything stays evenly balanced.

THURSDAY—FEBRUARY 15

This should be an active day for many, especially for those who are able to contact the high vibrations of Uranus and Neptune.

FRIDAY—FEBRUARY 16

Much can be accomplished today and our eyes may be opened to the beauties of nature as well as to poetry and music. Let us be grateful for God's ever present love.

SATURDAY—FEBRUARY 17

On this Saturn's day we will be glad to let up on the daily grind for a little while. Love casteth out fear and may reveal to us the reason for our anxieties.

SUNDAY—FEBRUARY 18

Both head and heart are active today and our urge to seek the Good for all mankind is great. Help will come from the Lord, who created us all and watches over us.

MONDAY—FEBRUARY 19

Those who are able to contact knowledge intuitively, may experience a very interesting day. The higher planets are well aspected and reveal the beauties of the invisible worlds.

TUESDAY—FEBRUARY 20

This will be a good day for spiritual endeavours, but we must allow time for our practical daily work. "Shun no duty that should be done," is a good rule.

WEDNESDAY—FEBRUARY 21

This may be a very busy day for there are many aspects to the planets. It is a time for action, through which we gain experience, which truly leads to knowledge and wisdom in the future.

THURSDAY—FEBRUARY 22

Today we may be tempted to be easily provoked. So let us beware. May the

words of our mouth be acceptable in Thy sight."

FRIDAY—FEBRUARY 23

Sun and Moon well aspected with each other will make it possible to express our higher selves through our personality. Let us use these good rays in our contact with our fellowman.

SATURDAY—FEBRUARY 24

On this quiet Saturn's day we should re-establish our faith in spiritual values; also let us use our energy for helpful everyday endeavours.

SUNDAY—FEBRUARY 25

Today as we worship, pray, and rest, let us thank our Creator for the faithful care we receive daily. "From all who dwell beneath the skies let the Creator's praise arise."—*Psalms*.

MONDAY—FEBRUARY 26

Today we start the week with fine and active aspects. We may be able to help our fellowman who needs some help. This will make us feel the truth of the Brotherhood of Man.

TUESDAY—FEBRUARY 27

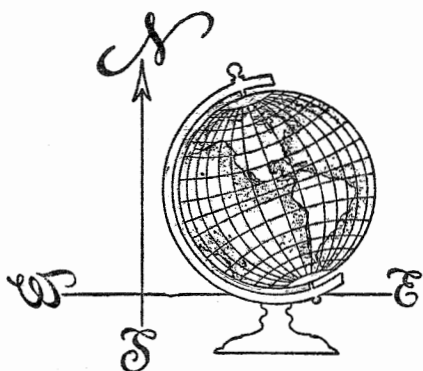
Some new projects may be started today, but Mars may urge us to go after these too energetically. Thoughtful prayers and God's help will bring all a fine fruition.

WEDNESDAY—FEBRUARY 28

We may go about our work confidently today, for the possibilities of success are good. But let us first "Seek the kingdom of God."

THURSDAY—FEBRUARY 29

Now we bid February a quiet thoughtful good-bye, looking toward the lighter months. Let us recall the happenings of the past month and try to learn from all that needs thinking over.



MONTHLY

News
INTERPRETED

The Hadron

The term "hadron" may be new to our readers, an inclusive term applied to particles which participate in the "strong" interactions. We quote from CERN Courier:

It is in the field of strong interactions that the proliferation of new particles has occurred. Most of the new particles are so-called 'hadrons', i.e., particles participating in the strong interactions. Hadrons are either mesons (which have spin 0, or 1, or 2...; examples are the pion, the kaon, the rho meson, ...), or baryons (which have spin $\frac{1}{2}$, or $\frac{3}{2}$, or $\frac{5}{2}$...; examples are the proton, the neutron, the lambda hyperon, the N^* resonance, ...), or antibaryons which are the antiparticles of the baryons, (the antiparticles of mesons are again mesons).

In recent years, powerful schemes of classification have been developed, and all the indications are that they have a fundamental significance. The following classification principles have been discovered:

- a) isospin and strangeness
- b) SU(3) symmetry, which combines isospin and strangeness; it groups particles in octets, nonets, decuplets and possibly also in higher multiplets
- c) combination of SU(3) symmetry and spin, which groups together several SU(3) multiplets with different spin values (for example, the baryon octet of spin $\frac{1}{2}$ is grouped with the baryon decuplet of spin $\frac{3}{2}$; the odd parity meson nonet of spin 0 is grouped with that of spin 1). This combination of (SU(3) and spin is often described as SU(6) symmetry: it is unlikely to be a genuine symmetry, however, because it conflicts with relativity; it is much more likely to be a dynamical structure property of hadrons.
- d) another classification according to spin alone which seems to emerge in recent findings. It states that particles can be grouped in so-called 'rotational series' or 'Regge series'. The particles in a series differ only by their spin, which has values J ,

J plus 2, J plus 4, ...; all their other properties are the same.

e) remarkable indications of structural properties common to mesons and baryons. They make it possible to calculate meson properties starting from baryon properties (for example, the decay rate of the omega meson into a neutral pion and a gamma can be calculated from the magnetic moment of the proton).

There is a simple and surprisingly successful 'mechanistic model' which gives a compact description of all the above classification properties. It is the quark model, quarks being so far purely theoretical objects which are supposed to carry the most important properties of meson and baryons. In this model, a meson would be composed of a quark and an antiquark, a baryon of three quarks, and an antibaryon of three antiquarks. The main properties of mesons and baryons are well approximated by saying that they are the sums of the corresponding properties of their constituent quarks. It is not yet known whether quarks can exist free, i.e., not bound with other quarks in mesons or baryons. Free quarks would be characterized by the remarkable property of having fractional electric charges (plus or minus $\frac{1}{3}$ or plus or minus $\frac{2}{3}$). The search for quarks will continue on present accelerators and, more hopefully, on future machines of higher energy.

The strong interactions which occur between hadrons when they collide with each other, form the second very important field of strong interaction research. It is now known that a remarkable simplicity of principle regulates the high energy collisions of hadrons which are of two-body type, i.e., in which only two particles come out of the collision. All the principles above, which are the basis of hadron classification, form also the basis for the analysis of two-body collisions. This study requires:

- (i) a systematic comparison between collision of various hadrons.
- (ii) a systematic study of the energy variation of a given collision over wide energy intervals.

The work of type (i) is done extensively around high energy proton synchrotrons and

uses the many secondary beams (such as pion, kaon, and antiproton beams). These experiments also make it possible to study point (ii), but the energy interval available (up to about 30 GeV) turns out to be narrow for the effects to be measured. The study of point (ii) for proton-proton collisions will be one of the important experimental programmes on the intersecting storage rings being built at CERN. A similar study for other collisions will require much larger synchrotrons than are now available. Experiments of type (i) are carried out both with bubble chambers (for common collisions) and with counter and spark chamber arrangements (for rare collisions or for high precision work).

A distinction needs to be made between the electromagnetic interactions of the electron, the muon and their antiparticles on the one hand, and the electromagnetic interactions of hadrons on the other. For the first category, an extremely accurate theory exists called 'quantum electrodynamics'. Up to now, it has been found to agree with experiment to extremely high precision, often better than one part in ten thousand. Further tests of quantum electrodynamics are under way in many high-energy physics Laboratories, using either electrons or photons coming from electron accelerators, or muons coming from proton accelerators via the decay of pions. A high precision experiment of this sort is now going on at CERN involving the measurement of the magnetic moment of the muon.....

The electromagnetic properties of hadrons pose completely different problems because of the virtual effect of the strong interactions. Whereas electrons and muons, which are not subject to strong interactions, behave as point electric charges, the hadrons have their electric charge smeared out in space and carry electric currents smeared out in a similar way. The systematic study of the electromagnetic properties of hadrons proceeds through various measurements, such as electron scattering on protons or neutrons, measurement of the magnetic moment of baryons, detection of electromagnetic decay modes of hadrons, etc.

We know now that the hadron classification principles described above also allow us to correlate and predict many electromagnetic properties. For example:

i) from SU(3) symmetry, we can predict that the magnetic moment of the lambda hyperon is equal to -0.5 times that of the neutron. Existing measurements at CERN and Brookhaven agree with this prediction, but the error is still large. A new measurement has been undertaken at CERN

ii) as already mentioned the electromagnetic decay of the omega meson into a pion and a gamma is calculable from the proton magnetic moment. The experimental value agrees with the calculation.

In weak interactions also there is a special class of phenomena where strong interaction effects can be neglected to very high precision. It concerns the weak interactions of electrons, muons and neutrinos. Since the discovery that neutrinos exist in two

types, one associated with electrons and the other with muons, the main features of this type of interaction seem to be cleared up to a considerable degree. Only work of extremely high precision or at extremely high energies is likely to give further progress.

Weak interaction properties of hadrons, again due to the virtual effect of the strong interactions, are very complex. Nevertheless, recent progress, closely connected with SU(3) and SU(6) symmetries, has allowed us to classify and correlate many properties. Important relations have also been found between weak and electromagnetic properties of the hadrons.

Up till recently, weak interaction properties of hadrons could only be studied by investigating appropriate decay modes. But development of intense neutrino beams produced by proton accelerators has opened up a completely new field of experimentation. It is now possible to study directly the interaction of high energy neutrinos on protons and neutrons. The neutrino beam available at CERN even makes it possible to do this work in a bubble chamber, so that all the details of neutrino-induced collisions can be observed and measured.

Finally, a class of problems of the greatest importance for weak interactions concerns their symmetry and invariance properties, especially under the transformation C of particle-antiparticle conjugation, the transformation P of space reflection, and the transformation T of time reversal. As is well known, C and P invariance are violated to a large degree by weak interactions, whereas the combined CP invariance is preserved to good precision. A fundamental experiment, carried out at Brookhaven in 1964, revealed a small amount of CP violation in the decay of the long-lived kaon into a positive and a negative pion. In 1966, CP violation was also shown to exist, first at CERN and soon afterward at the Princeton accelerator, in another decay mode.

The discovery of CP violation in the kaon decay has led to many speculations concerning the possibility of similar violations in strong or electromagnetic interactions. The possibility of such violations gave rise to an extended experimental effort, especially at CERN. A major experiment, which was devoted to the eta meson decay, established CP conservation to a precision of 1%, by far the greatest accuracy reached to date. While the eta meson experiment tests simultaneously the possibility of violations in the strong and electromagnetic interactions, an anti-proton-proton annihilation experiment has been carried out at CERN to test purely the strong interaction. The result is again that CP conservation holds to about 1% precision.

The main tools required for weak interaction studies are very intense beams of appropriate particles, especially mesons, and detection and analysis methods capable of handling very high statistics and of measuring decay modes with high precision. Similar requirements are needed also for the study of many strong and electromagnetic properties. Hence the desirability of

extensive improvement programmes for existing accelerators, such as have been started at Brokhaven and at CERN, and the necessity of powerful equipment for detection and data analysis.

—*CERN Courier*, Summer, 1967.

In the above discussion from *CERN Courier* the discoveries on the matter of the atomic particles and the various processes now thought to govern them are summed up. The material is technical, but read carefully should give the student some sort of understanding of the situation as it is at present in the realm of physics. The new particles, or most of them, which have been discovered, belong to this general class of hadrons, which include mesons, and baryons. Examples are the proton, the neutron, the lambda hyperon, the N^* resonance particle, or antibaryons. These are discussed as in the field of strong interactions.

Under electromagnetic interactions (not merely reactions, but interactions) this magazine points out that a distinction is made between electromagnetic interactions of electron, muon, and their anti-particles as against the electromagnetic interactions of the hadrons.

Whereas electrons and muons, which are not subject to strong interactions, behave as point electric charges, the hadrons have their electric charge smeared out in space, and they carry electric currents smeared out in the same way, this news item says. The hadron classification principles as described allow physicists to correlate and predict many electromagnetic properties.

Under *weak interactions* we read that the weak interaction properties of hadron, again due to the virtual effect of the strong reactions, are very complex. The weak interactions are popularly known as exemplified in radioactive decay. Now the development of intense neutrino beams produced by proton accelerators has opened up a completely new field of experimentation. It is now possible to *study directly* the interaction of high energy neutrinos on protons and neutrons.

The reference to C, P, and T go back to the overthrow, in recent years, of various standard theories involving conservation, the action of forces in time and space, and so on. So far the theories on electromagnetic forces have not been influenced to any significant degree. The old rules of the strong forces and electromagnetic forces still hold.

Radiocarbon Dating Questioned

The radiocarbon method of dating ancient artifacts depends on several assumptions that could not be easily verified when the method was first developed by Dr. Willard F. Libby, the Nobelist now at the University of California at Los Angeles.

One of the most important of these assumptions is that the rate of carbon 14 formation, now known to depend upon the intensity of the earth's magnetic field, is constant. Carbon 14 originates in the upper layers of earth's atmosphere, produced by the bombardment of cosmic rays.

When the earth's magnetic field decreases in strength, the cosmic ray flux and, therefore, the rate of carbon 14 formation increases; higher values of the field have the opposite effect. These facts have now been verified directly.

Several years after Dr. Libby discovered radiocarbon dating scientists learned how to gauge the intensity of earth's magnetic field in the remote past by measuring the magnetization remaining in burnt archaeological objects.

Samples from various countries measured by this technique have shown that the earth's magnetic field has ranged from one-half to one and a half times its present value during the past 8,500 years.

Drs. V. Bucha and E. Neustupny of the Czechoslovak Academy of Sciences in Prague have found that radiocarbon dates should be corrected by as much as 750 years for artifacts as old as 6,000 years. They report in the July 15 *NATURE* that their investigations prove "the necessity of including the influence of the changes of the earth's magnetic field in radiocarbon dating."—*Science News*, July, 1967.

Alas for the archeologist! Doubt is now thrown on the radio-carbon method of testing ancient objects; not because the theory upon which it is based is not soundly scientific, but because the Earth's magnetic field fluctuates more than was thought. Radiocarbon dates must be corrected by as much as 750 years for artifacts as old as 6,000 years; so that the change of the Earth's magnetic field must be always taken into consideration, in all radio-carbon testing and dating.

Readers' QUESTIONS

Nucleus of the Atom

Question:

Can you give me a brief summary of current ideas about the nucleus of the atom? So many new discoveries are made each year that it is hard to keep up.

Answer:

We will over-simplify the answer to this question, because a simple outline is more easily remembered, and then new ideas and understanding can be filled in as needed.

The nucleus of the atom consists of:

1. *Nucleons*: These are the proton, which is electrically positive, and the neutron, which is electrically neutral. Both proton and neutron are termed nucleons. The proton is called a "heavy" particle; the neutron is of nearly similar heaviness; this means "heavy relative to the mesons and leptons" (or as compared with electrons).

2. *Mesons*: Middle-weight particles, not as heavy as the nucleons, but heavier than the electron. Of these, the pi-meson (pion) is especially important, for it is thought that the neutral pion is the carrier of the "strong force" which binds the nucleus together. Mesons may be either positive, negative, or neutral in electrical charge.

3. *Quarks*: Hypothetical particles whose electrical charge is LESS THAN THAT OF THE ELECTRON. Formerly the electron was thought to be the irreducible electric charge, and physicists pondered what might happen if ever the electron turned out not to be the least electrical charge. Today the *quark* — not yet discovered, but hypothetical — is taken to be less in charge than the

electron; but, these quarks are supposed to make up or constitute all of the actual particles of the nucleus. It is supposed that there may be three of them for the nucleons, and two for the mesons, electrically charged minus $1/3$, and plus or minus $2/3$. "Quarkists" sometimes speak of the nucleons as "light" and the "quarks" as heavy, heavier than the nucleon which results from their combination.

When the quarks combine some of their weight is lost in the process, and so the resulting nucleon or meson may be "lighter" than the quarks. This also happens when the protons and neutrons come together to form the nucleus, or when any particles stick together in a mass. This phenomenon can be understood as follows:

- (a) First, recall that Einstein has brought to our attention that mass and energy are equivalent — if in some region there is a certain amount of energy, then the total mass of the region is related to the total energy by $E = MC^2$ (where E is energy, M is mass, and C is the velocity of light).
- (b) Next, consider what happens when two bodies collide and stick together. For example, consider a meteor crashing into the earth. At the point of impact, both the meteor and the earth become very hot — and the heat is radiated away into space. But heat is a form of energy and loss of energy means loss of mass. Thus, careful weighing of the earth and meteor before and after the collision would indicate that after the collision there was less mass than before. This ex-

periment has of course never been done. But in the case of protons and neutrons coming together to form a nucleus, analogous before and after measurements would have been made and a loss of mass observed.

Quarks are not really a special class by themselves, since both the particles and the nucleons are made up of them, as noted. But we list them here simply to give some idea of the newer ideas which are still in the experimental stage.

4. *Other Sub-nuclear Particles*: About 200 particles have been discovered, though perhaps not all of these are actually to be found within the nucleus of the atom. All particles within the nucleus of the atom are termed sub-nuclear particles. They are electrically charged either positive or negative, or they are neutral. They include muons and leptons. These are further divisible into *resonance particles*, which are measured in *phonons*. Phonons are spoken of as if they are particles. Perhaps we can call the phonon a "re-sounding", rather than a "reflection." They are counted singly, however, for they act as if they were real independent particles. Perhaps to the clairaudient sense it is here that the "music of the spheres" resounds in the atom, unless the physicists are using the words phonon and resonance in a highly technical and mathematical sense which is scarcely more than an allegory or symbol. When sound bounces off a surface and returns to the ear it may actually sound like a new sound altogether, though it is the original sound returned to us, as an echo.

Formerly physicists spoke much of the electrical properties of the particles, those in the nucleus balancing those of the revolving electrons. The force which holds the atom together as an atom is therefore electrical: positive nucleus, negative electrons surrounding it making up the whole atom. Recently the magnetic properties of the nucleus are

also receiving more attention than in the past. We also read of "hyper-nuclei," but these would take us into more difficult terrain, and we are trying to keep our discussion simple.

We may add that modern physics recognizes four forces: 1. The Electrical (or electromagnetic), which binds the atom together as a whole; that is, the positive nucleus balances off the negative electrons which orbit around it. There are actually positive electrons, too, the positrons, but they do not enter into our common concept of physical matter.

2. The Strong Force: this binds the nucleus together.

3. The Weak Force: exemplified in radioactive decay. A little of it is found even in the nucleus.

4. Gravity, or force of gravitation.

New investigations in the magnetic structure of matter are of interest since this field impinges upon the so-called "Life Ether" of occultism. The Life Ether and Chemical Ether are both active in the field of electromagnetic forces, or vice versa. It is still not possible to give clear definitions of extra-sensory investigations in terms of modern physics, but a harmony here is fast approaching.

Physicists have been tabulating the magnetic properties of atoms for some time now, although they still have not finished, thus leaving the table as yet incomplete.

Concerning the distinction between the electric and magnetic forces: when one does not need too great an accuracy, one can consider electric and magnetic forces as two distinct and entirely separate forces. But when one needs very great accuracy, one must take into account the inter-relationship between these forces. One may always use the "electromagnetic" theory (as far as is known) but one can use "electric" theory and "magnetic" theory only in special cases.



Health in the News

SOLVING WORLD FOOD CRISIS

The world has only twenty years to solve its food crisis if it is to avert massive starvation. If it is solved during that time, it will "be manageable for the years there after."

So states a report on world food supply by the President's Science Advisory Committee after a year's study by more than 100 authorities.

Developing nations will need twice as many calories in 1985 as they had in 1965, which would require a 4 percent growth in food production each year, the report estimates. Current growth rates are about 2.7 percent annually. Only a few countries, such as Mexico and Taiwan, show adequate growth.

The report makes clear that neither birth control nor exotic new food sources—such as algae, or protein from petroleum or from the sea—will measurably affect food supply during the critical period. Time is too short.

Therefore the bulk of new food must come from conventional farm sources. It is absolutely essential, says the panel, that developing nations shift from sustenance farming to modern commercial agriculture, despite the difficulty and expense.

Only massive efforts, "unparalleled in the peacetime history of man" and involving both developed and developing nations, can hope to solve the food crisis.

WORLD DRUG LAW

The underdeveloped nations shook a recent session of the World Health Assembly with demands for new international laws to protect them against useless and allegedly murderous medications.

They mounted pressure for the immediate drafting of international regulations, binding on nations that sign a treaty similar to the long-time quarantine laws requiring action on outbreaks of plague and other infections.

Under the proposed regulations, nations having pharmaceutical exports would guarantee that drugs in world trade were subject to the same strict quality control procedures as medicines produced for the home market.

MORE LIQUOR, MORE VIOLENCE

Liquor and violent crimes are close companions, according to the sixth task force report on United States crime.

Heavy drinking and criminal assault bear the closest relationship, especially for low classes of both Whites and Negroes, reports Dr. David J. Pittman, director, Social Science Institute, Washington University, Saint Louis.

The liquor-violence link is based on studies in Philadelphia, and Columbus, Ohio. Both found a high rate of intoxication in cases of murder, cuttings, and

other assaults. For cuttings the relationship was eleven to one; for carrying concealed weapons it was eight to one. Two thirds of the homicides involved drinking, by the offender or the victim or both.

Dr. Pittman suggests that when aggression is normally only weakly controlled, alcohol triggers its release. The crimes often occur in taverns, he said, when someone's personal honor, masculinity, or legitimacy has been impugned.

Drunkenness accounts for two out of three arrests in America each year. Often the same people are arrested and processed through the criminal courts time and again.—*Listen*, Oct., 1967.

PLEASE PASS THE ONIONS!

People who know their onions, love 'em — despite their drawback of giving your breath an aroma that seldom makes friends and frequently alienates people.*

Of the some 500 known species of onions, most of them aren't eaten at all but are prized as lilies, such as amaryllis, narcissus, and tulips. During World War II the Dutch actually ate tulips worth \$5 a bulb to stave off starvation.

Onions are divided by size and flavor into various types suitable for different purposes. Pearl or button onions serve mainly as hors d'oeuvres, and are usually white or yellow skinned; the next larger size — about an inch or so in diameter — are used for boiling; the larger sizes get increasingly strong and are used to chop or grate for flavor; and the largest of all — the Spanish or Bermuda onions — are characteristically mild and sweet in flavor. Their color varies from white to yellow, and sometimes red.

Raw and dehydrated onions are an

**Note: Chewing on a sprig of parsley after you've eaten raw onions will restore baby-breath freshness!*

excellent source of potassium, provide more actual food energy than spinach, and the yellow varieties are a fair source of vitamin A. Their main claim to fame, however, is not in their high food value but in the zesty flavor they give to countless entrees.

No one knows just how long onions have been eaten, but we're sure they're no newcomers to the dinner table. Just the memory of their fragrance in a pot of stew drove the Israelites to rebellion during their wanderings in the wilderness of Sinai.

The Babylonians taught the Egyptians that the onion is a symbol of perfection because it is a sphere, and one can travel the line around a sphere throughout eternity. The Egyptians immortalized onions by placing a bouquet of them in a mummy's hand to guide the deceased to the afterlife.

Fifteen years ago, an antique collector discovered 11 cans of dehydrated onions in an old warehouse in Alaska. The bulbs had been grown in Watsonville, California, dried in the sun, and placed in screw-top containers to accompany gold seekers on the trail to Skagway in 1889. Oiled paper was wrapped around the threads of the cap to provide a tight seal. Opened half a century later, the onions were still edible, and as pungent in aroma as they ever were!

GOOD ONION RECIPES ARE TO BE FOUND IN EVERY COOK BOOK BUT IF YOU'D LIKE TO TRY A FEW PRIZE LOMA LINDA FOODS ENTREES PREPARED IN OUR TEST KITCHEN — ONION RECIPES FOR SOUP, SALAD, AND STEW, SEND A STAMPED ADDRESSED ENVELOPE TO *Today's Food*, 11503 Pierce St., Riverside, Calif., 92505.

GERMS OUTSMART DRUGS

Infectious diseases used to be an easy target for antibiotics. But once-defenseless bacteria have learned to resist the drugs and, scientists are now discovering, transfer that resistance even to

other bacterial strains. Resistant strains pose an increasing threat to man's ability to control disease.

Drug-resistant germs are on the rise throughout the world, according to Dr. Naomi Datta of Postgraduate Medical School, London. "The spread of drug resistance is encouraged by the heavy use of antibiotics in both humans and animals," he says.

Typhoid, dysentery, and infant diarrhea are all becoming more difficult to treat.

Dr. Sydney Ross of Children's Hospital, Washington, D.C., reports an increasing number of drug-resistant cases in children's diarrhea. *Shigella*, rod-shaped bacteria that cause dysentery, salmonella, and another disease-causing bacteria called *Escherichia coli* were all found to be immune to several antibiotics. He names sulfadiazine, tetracycline and chloramphenicol, once the most commonly used treatments, as the least effective now against diarrhea in children.

"HIGH" ON LIFE

David Amran is a rising American composer who has written dozens of works for orchestra and chamber groups. Critics are predicting that he will set a direction for modern American music.

Concerning his composing he comments: "The body is the vessel of the soul. It has a certain rhythm. If it's in shape, it tunes your mind. When writing my opera, *Twelfth Night*, I ran sixty laps around the Y.M.C.A. gym track every day. It cleared my mind. By not smoking, drinking, or using drugs I find I can be 'high' all the time on life."—*Listen*, Oct., 1967.

LEPROSY VACCINE

In a campaign in Uganda, 8,000 children were immunized against tuberculosis—and seemed to become immune to leprosy as well. Mexican researchers, inspired by this happy coincidence, have now developed a successful leprosy vaccine. Massive treatments begin this month.

"The synthetic vaccine, labeled Pogal, is

the result of 17 years of investigation by five medical researchers," Dr. Alberto P. de Leon said. "The product—like BCG—provides protection against tuberculosis as well as leprosy."

BCG stands for *Bacillus Calmette-Guerin*. It is used against tuberculosis successfully in some countries, but mass inoculation is not officially approved in the United States because it interferes with TB tests given in schools.

"The leprosy vaccine is easy to apply, and produces no negative symptoms. Until now we have used it only with selected patients but results have been highly satisfactory," says Dr. Leon, an immunologist at Mexico's Tropical Disease Institute.

—*Science News*, June, 1967.

Leprosy, like syphilis, is one of the diseases that strikes terror in the human imagination, although today medicine has done much to check these diseases—at least temporarily. Leprosy is not the scourge it once was; and with better controls, the same may be said for venereal disease. In this item we learn that a tuberculosis vaccine used in the Uganda also brought immunity to leprosy as well. However, one must wait for the evidence from the "massive treatments" which we are told "begin this month."

It should also be remembered that both leprosy and venereal disease are "sins" against the Holy Spirit, originating in misuse of the holy Creative Force, and must eventually (in some life) be expiated. They are not to be eradicated by the use of material medicine.

ROSICRUCIAN PRINCIPLES

The Rosicrucians advocate a vegetarian diet as superior, physically and spiritually, to a diet containing meat. They regard alcohol, tobacco, and stimulants as injurious to the body and a detriment to the Spirit. They believe in the power of prayer and the creative power of thought through concentration in bringing about the healing of mind and body. They hold, however, that physical means can often be used to advantage to supplement spiritual and mental means.

ROSICRUCIAN BOOKS

On the Philosophy

The Rosicrucian Cosmo-Conception.....	\$4.50
The Rosicrucian Mysteries.....	4.00
Complete Index of Heindel Books.....	4.50
The Web of Destiny.....	3.50
Mysteries of the Great Operas.....	3.50
Ancient and Modern Initiation....	3.50
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APPRECIATION FROM PATIENTS

California—It becomes more obvious every day that my ills are of my own creation. Much of the time I feel like I am fighting my way through a storm, but there are times when the winds calm down, the sun comes out, and there is a breathless equilibrium beyond words.

Wisconsin—I did not realize that I neglected to write last week. Was very busy and the time went by fast. My health is fine and am still following the diet, though on my "fast" days I seem to be getting hungry. My family is pleased with my appearance now since I have lost almost 30 pounds. Really, this is the first time that I have had such wonderful results and owe it all to you, dear friends, for helping me.

Oklahoma—My neighbors tell me they just can't believe that anyone could have made such a drastic change in health and in looks. They say I look fifteen years younger. I will always believe the Rosicrucian way is the only way to health and spiritual enlightenment. I am thankful for our good health and many blessings. I have learned that whether our life is worth living depends upon the liver, how we eat, drink and think, which can make us healthy or ill. We must live for Christ and abide by the laws of Nature if we ever hope to be happy, and do unto others as we would have them do unto us.

Arizona—Thank you so very much for the wonderful diet guide for my son. He has shown remarkable improvement since being put on it. He has filled out wonderfully and is in brighter spirits. He seems to say "thank you" continually for it.

New York—I have been ill five years and I tried almost every source. Since I have written you things have been much better. I cannot understand what it is but I am so grateful. I have tried to do some of the things you instructed me to do. God bless you for the wonderful work you are doing.



Hypnotic "Healing"

FROM the occult viewpoint it is obviously wrong to try to cure a bad habit, such as drunkenness, by hypnotism. Looked at from the standpoint of one life . . . the good seems to be undeniable.

But looking at it from the deeper standpoint of the occultist, *who views this life as only one in many*, and looking at it from the effect it has upon the invisible vehicles of man, the case is vastly different. When a man is put into a hypnotic sleep, the hypnotist makes passes over him which have the effect of expelling the ether from the head of his dense body and substituting the ether of the hypnotist. The man is then under the perfect domination of another; he has no free will, and, therefore, the so-called "suggestions" are in reality *commands* which the victim has no choice but to obey.

Besides, when the hypnotist withdraws his ether and wakens the victim he is unable to remove all the ether he put into him. To use a simile, as a small part of the magnetism infused into an electric dynamo before it can be started for the first time is left behind and remains as residual magnetism to excite the fields of the dynamo every time it is started up, so also there remains a small part of the ether of the hypnotist's vital body in the medulla oblongata of the victim, which is a club the hypnotist holds over him all his life, and it is due to this fact that suggestions to be

carried out at a period subsequent to the awakening of the victim are invariably followed.

Thus the victim of a hypnotic healer does not overcome the bad habit by his own strength, but is as much chained in that respect as if he were in solitary confinement, and although in this life he may seem to be a better citizen, when he returns to Earth in another embodiment he will have the same weaknesses and have to struggle until at last he overcomes it himself.—*Max Heindel.*

* * *

Visible helpers are just as necessary as Invisible Helpers, and our friends and patients may share in a high privilege, as well as add much to the power of liberated healing force, by joining us in prayer for the sick. Our Healing Service is held every evening in the Healing Temple at 6:30, and in the Pro-Ecclesia at 4:45 P. M. when the Moon is in a cardinal sign on the following dates:

HEALING DATES

January 6 — 13 — 19 — 26

February 2 — 10 — 16 — 23 — 29

Relax, close your eyes, and make a mental picture of the pure white rose in the center of the Rosierucian Emblem on the west wall of our Pro-Ecclesia, and concentrate on *Divine Love and Healing.*

MISCELLANEOUS

OUR READERS SAY

Received my magazine for October and read most everything in it. I enjoy it very much and can hardly wait until I receive the next issue.—A.R.

Please send next month's *Rays* to our new address. You know, we really love "our" magazine and so look forward to it. My husband and I started getting bound copies of the *Rays* some years ago. We read a lot of the old ones (1930-33, 1940-42, and the 1920's), but the ones we loved best were those 1920 issues! They are so beautiful, timely, and inspiring! It's like reaching into history for me — as I was not even born until '42! Keep those wonderful magazines coming! (P.S. In the October *Rays* my oldest son's name was drawn for one of the astrology readings. We cannot tell you how happy it made us. It was very complimentary but also pointed out a few weaknesses we already suspected! Needless to say, we will guide him with love and understanding and to the very best of our ability.—B.P.

About 1956, while still "wandering afar off", I was one day in a bookshop looking for I knew not what, and the owner of the shop recommended the *Cosmo*. I grudgingly bought it, thinking I would probably soon discard it with other books I have since burned, but I can never be grateful enough that Mr. Heindel's books captured and held me. I bought two more copies of the *Cosmo* for lending. I have also since 1961 been a subscriber to the *Rays*.—F.N.

Last year, when my husband was unemployed and we were quite "poor" financially, around Christmas a friend sent me a year's subscription to the *Rays* as a Christmas gift. I have looked forward to receiving it each month; it has been a wonderful gift. Now I would like to do the same for someone this year, so please give the subscription to some one you know of.—G.M.

I have just read the article by Co-

rinne Heline in the June, 1966, issue of the *Rays*, page 281, "Healing and Disease in the Light of Rebirth." The article refers to blood transfusion and how a donor's blood should be in harmony with the recipient. I was very ill fifteen years ago and after a double operation I had peritonitis, and during that time I received seven pints of blood. I did not get well and they did the same operation the second time, and I had to go back a third time for the same thing — all within six months. I don't know how much blood I received in all. However, after these operations I was a changed person. I no longer liked classical music, such as opera. I was not sympathetic to other people's troubles. Would the transfusions have had the effect on personality change, even though they just ordered the blood from a blood bank? (Incidentally, I have somewhat rare blood.) Or was the change due to so much suffering from the excruciating pain for so long? The article made me think back. I had picked a favorable day to have that first operation, but the doctor changed it without consulting me, and the result was disastrous. Enclosed money order is for one year's subscription.—Y.R.

I should like to make some comments on a statement in Helene Taylor's article in the November *Rays*, to quote: "The true Christian religion is being heralded now on a new spiritual impulse, on a higher vibratory note." 1. I believe the "true Christian religion" does not exist as the property of any one group. In time there will be one world-wide religion which will be the true Christian religion. 2. The new spiritual impulse which will bring this true religion into being comes from Christ, or from the heart of the Logos. This impulse is LoveWisdom. It is not a mere idea but a very real force affecting changes in mental and emotional attitudes of man. It affects different people differently; all effects tend toward the good of ALL.—J.H.

THE ROSICRUCIAN METHOD OF
CARING FOR THE DEAD

The body is kept without disturbance in a quiet room, at a low temperature (without embalming) for three and one-half days *immediately following death.*

Cards of instruction for the care of one's body after death according to the Rosicrucian Fellowship method will be sent free of charge to those requesting them. Since some states have laws requiring embalming within a short time after death, it is safest to leave specific instructions for the desired care and disposal of one's body.

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