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Duty Our Incentive

At the present stage of our development, Interest and Indifference furnish the incentive to action and are the springs that move the world. At a later stage these feelings will cease to have any weight. Then the determining factor will be *duty*.—*Max Heindel*.

Duty is the demand of the hour.—*Goethe*.

Simple duty hath no place for fear.—*Whittier*.

Perish discretion when it interferes with duty.—*Hannah Moore*.

There are not good things enough in life to indemnify us for the neglect of a single duty.—*Swetchine*.

He who can at all times sacrifice pleasure to duty approaches sublimity.—*Lavater*.

It is thy duty oftentimes to do what thou wouldst not; thy duty, too, to leave undone that thou wouldst do.—*Thomas à Kempis*.

Duty performed, work done for God — this abides forever, this alone is imperishable.—*Richard Fuller*.

The holy man not only does not shirk his worldly duty but he fulfils it better and more conscientiously than before giving himself to God.

—*Max Heindel*.

The pleasure a man of honor enjoys in the consciousness of having performed his duty is a reward he pays himself for all his pains.—*La Bruyere*.

Let men of all ranks, whether they are successful or unsuccessful, whether they triumph or not—let them do their duty, and rest satisfied.—*Plato*.

It is one of the worst of errors to suppose that there is any other path of safety except that of duty.—*Aughey*.

Duty is one and invariable: it requires no impossibilities, nor can it ever be disregarded with impunity.—*Thoreau*.

Never to tire, never to grow cold; to be patient, sympathetic, tender; to look for the budding flower and the opening heart; to hope always; like God, to love always — this is duty.—*Amiel*.

If the duties before us be not noble, let us ennoble them by doing them in a noble spirit.—*F. W. Robertson*.

Do today's duty, fight today's temptation; and do not weaken and distract yourself by looking forward to things which you cannot see, and could not understand if you saw them.—*Charles Kingsley*.

Reverence the highest, have patience with the lowest. Let this day's performance of the meanest duty be thy religion.—*Margaret Fuller*.

High hearts are never long without hearing some new call, some distant clarion of God, even in their dreams; and soon they are observed to break up the camp of ease, and start on some fresh march of faithful service.—*Martineau*.

No man living in deliberate violation of his duty, in wilful disobedience to God's commands, as taught by conscience, can possibly make progress in acquaintance with the Supreme Being.—*Channing*.

If we walk the path of duty, if we seek to do those things well and thoroughly which come to our hands, and if we have spiritual aspirations without aiming to force spiritual growth, then we shall be fitted for having higher powers. It is a beautiful feature of the Rosicrucian Fellowship exercises that they not only give us spiritual knowledge, but they fit us for having that knowledge.—*Max Heindel*.

THE Mystic ... LIGHT



The World We Live in

A TALK IN OUR CHAPEL GIVEN BY LOUISE SAMMONS

THE opening lines of Chapter I of *The Rosicrucian Cosmo-Conception* tell us that: "The first step in occultism is the study of the invisible worlds. These worlds are invisible to the majority of people because of the dormancy of the finer and higher senses whereby they may be perceived, in the same way that the Physical World about us is perceived through the physical senses."

There is yet another realm of which very few people are aware — a little world which encompasses each one of us, our own personal world. The human being is something more than that which we see; he has surrounding him an invisible atmosphere which partakes of his distinct and personal nature: an etheric envelope which is in fact a miniature replica of the etheric envelope of the globe on which we live.

Our Earth is surrounded and penetrated by an invisible globe which extends out into space a great distance beyond the atmosphere, traditionally to and including the Moon. This is the vital body of the Earth. It is composed of ether, of which there are four grades; the densest is called the chemical ether, and is the closest to the Earth. The next is the life ether; then comes the light ether; and the fourth and rarest, the most attenuated, is called the reflecting ether.

To one who has etheric sight the ether is as tangible as the solids, liquids, and gases of our common experience. In these ethers the clairvoyant sees the vital forces which give life to the mineral forms of plant, animal, and man. The etheric bodies of all beings that exist on the Earth partake of the Earth's vital body; they also partake of the cosmic forces which flow through the planetary vital body.

The Earth's envelope has its positive and its negative poles in each sheath or layer from chemical to reflecting ether, reflected at the physical level as the magnetic poles of the Earth globe. So also each sheath or level of man's etheric body has its positive and negative poles, manifesting in opposite polarity in the two sexes. Too, the organs of the physical body have each their own magnetic fields within the etheric body, each with at least one pair of poles, and some with more than one.

Although all of the ethers have work to do in every part of the living organism, each ether has one special work of its very own. The chemical ether is the avenue for forces concerned with up-building and nourishing the entire body, but its special field of action is the bony structure — the skeleton. The life ether promotes growth activities and the perpetuation of the species, but its special

area consists of the blood, the generative system, and the endocrine glands. The light ether is the avenue for the cosmic forces related to sunlight, color, and heat, but its special area is the nervous system, both voluntary and sympathetic. The reflecting ether is the great receiver of impressions and the recorder of life's experiences. Through its influence the Spirit is enabled to control its vehicles by means of thought.

In the *Cosmo-Conception* ether is classified as physical matter, and as such it is responsive to the same laws which govern other physical substances upon this plane of existence. It therefore requires but a slight extension of physical sight to see etheric objects or beings.



While spiritual sight is acquired by developing latent vibratory powers in the pituitary body and the pineal gland, etheric sight depends upon the sensitiveness of the optic nerve. By means of etheric sight it is possible to see everything that exists in the etheric region of the Physical World. It has been compared to the X-ray in that it enables its possessor to see right through all objects, but it is even more powerful than the X-ray, for it renders everything as transparent as glass. Paradoxically, the only substance which is proof against its penetrative faculty is glass, which is as opaque to etheric sight as a stone wall to physical sight.

In 1918 Max Heindel predicted that as the New age advances many will have developed etheric sight. As a result, it will be extremely easy to study anatomy and to detect a morbid growth, for with

this vision the doctor will be able to study directly both anatomical structures and physiological processes without hindrance. Apparently that prediction is fast becoming a reality.

In her recently published book, *Breakthrough to Creativity*, Dr. Shafca Karagulla gives case history studies made with some of the sensitives with whom she works. These individuals can see into and through the human body and describe conditions that correlate accurately with medical findings.

Dr. Karagulla is an eminent neuropsychiatrist. A few years back she was challenged to read the Edgar Cayce story written by Thomas Sugrue, and as a result became interested in occult science, especially as it relates to the medical field. She is now one of the pioneers in occult medical research. In one chapter of her book she discusses what happens when people experience the energy pull of "human sappers" — those people who have the unfortunate faculty of sapping the ethers out of the body of anyone who is near them. Her findings, though couched in scientific terms, only serve to confirm the results reached through the clairvoyant investigations of Max Heindel in *The Web of Destiny*.

While development of etheric vision should be of paramount interest to every occult student, we should not overlook the fact that there is also etheric hearing as well as an etheric sense of touch. The life ether is *sensed*, for example, as a kind of heavy magnetic fluid. One may call it syrupy, if it is understood that we mean by this that its magnetism gives it consistency. When the Invisible Helper dips his hands into the etheric body of the patient and then withdraws them, the vital body of the patient seems to cling to his hands. Ordinarily, of course the patient does not feel his own magnetism, but the Helper's magnetic aura in this instance is exerting an outside attraction. This is the cement of assimilation about which Mr. Heindel speaks when he said: "The life ether is

the cementing material in assimilation and the particular avenue for specialization of solar energy."

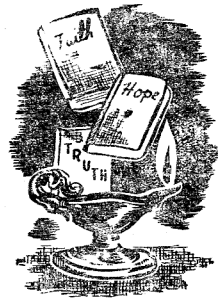
The spleen is the entrance gate for this solar energy which vitalizes the dense body. The universal energy rushes through the spleen to the seed atom of the vital body located in the solar plexus; thence it fans out through the body, radiating through the nerves, so that every atom of the body, both physical and etheric, receives its stimulation. The excess force then radiates outward in rose-colored lines. Without these magnetic currents the body could not function, but would be inert and motionless, like an electric machine with the current turned off. The activity of the vital body as it specializes the solar fluid is audible to etheric hearing as a steady drone, or hum, and the vortices of force are clearly felt. The keynote of this activity is set by the "Sounding Flame" which burns in the medulla oblongata, which in turn sounds the keynote of the archetype.

In *Occult Principles of Health and Healing* we find this paragraph: "There is in the skull at the base of the brain a flame. It burns continually in the medulla oblongata at the head of the spinal cord, and like the fire on the altar of the Tabernacle, is of divine origin. This fire emits a singing sound like the buzz of a bee, which is the keynote of the physical body, and is sounded by the archetype. It builds in and cements together that mass of cells known as our body."

We must not overlook the fact that in this etheric world of ours there are the two higher ethers which are associated principally with spiritual advancement. They are the light and reflecting ethers, and are generally considered together as a working unit for they function as avenues of consciousness and memory. These two ethers are somewhat attenuated in the average individual and have not yet taken definite form. They interpenetrate the atom as air interpenetrates

a sponge, and they form a slight auric atmosphere outside each atom.

Every human being at this stage of evolution has a certain amount of light and reflecting ethers intermingled in his vital body. However much or little a man possesses of this material, it is an accretion, a fruitage, derived from his experiences in life. Inside the body it mingles with the blood stream and when the light has grown by service and sacrifice, by purity of motive, and by spiritual attainment so that it can no longer be contained within the body, it is seen on the outside as a soul body of gold and blue. Blue shows the highest type of spirituality, therefore it is smallest



in volume and does not appear outside the dense body save in the very greatest of saints — only yellow is usually observable.

At death this part of the vital body is etched into the desire body with the life panorama which it contains. The quintessence of all our life experience is then eventually impressed upon the seed atom as conscience or virtue which urges us to avoid evil and to do good in a coming life. There is a chamber in the left ventricle of the heart, near the apex, where a little atom swims in a sea of the highest ether. The *force* in that atom, like the forces of all other atoms, is the *undifferentiated life of God*; without that force the mineral could not form matter into crystals; the plant, animal, and human kingdoms would be unable to form their bodies.

That little atom is called the "seed atom." The force within it moves the heart and keeps the organism alive. All the other atoms in the whole body must vibrate in tune with this atom. The *forces* of the seed atom have been immanent in every dense body ever possessed by the particular Ego to whom it is attached, and upon its plastic tablet are inscribed all the joys, all the sorrows, all the experiences of that particular Ego in all its lives.

When we return to God, when we shall have become one in God once more, that record, which is peculiarly God's record, will still remain, and thus we shall retain our individuality. Our experiences we transmute into faculties; the evil is transmuted into good and the good we retain as power for higher good, but the *record* of the experiences is of *God* and *in God*, in the most intimate sense.

In Elbert Hubbard's *Note Book* of philosophical writings, he says: "God will not look you over for medals, degrees, or diplomas, but for scars!" When we think about the chaos in the world today we cannot help but wonder what judgment God will pronounce upon us as He surveys our scars so numerous and so revealing in character.

Human beings are not all good or all bad, but the telltale scars will authentically reveal which will predominate in the formation of thought and its motivation in conduct. The scars will also indicate the degree of our weaknesses, our self-will, and our selfish motivation. Unerringly God will uncover the evil in our nature so far as it exists, and expose the degree of its moral and spiritual malignancy. He will also find in His scrutiny of the scars upon our minds and hearts, we hope and pray, enough good in us to conclude that our virtues outweigh our vices. These scars proclaim our patient endurance of harassing personal problems and painful ordeals, and also tell of our struggles in the face of impelling temptations to resist their influence and preserve our ideals. He

will also see in our record the scars left by our strife in the face of discouragements and frustrations to contribute something to the betterment of life for our fellow beings, as well as the good in us which has survived the spiritually blighting effect of the materialistic and mechanistic character of the times in which we live. We trust these scars will earn us His indulgence, and we believe they will.

As we delve deeper into the mysteries of the Great Unknown, we are aware of the greatness of the all-encompassing Wisdom and Love of our Father. The burden of life is the necessity for man to take up his cross. In our own busy world it seems that all we can hope to do is to strive daily for an active mental life — with a little love to warm it.

Mind is the builder, and knowledge not lived becomes sin in every person of whatever station. To quote the mystic Edgar Cayce: "Look not for things to criticize, but for something you adore in your Creator; for you will not enter the kingdom of heaven except leaning on the arm of someone you have helped."

B E N E D I C T I O N

Why fear? Thy all-suffering God is here.

*Why tremble through a dark and solo
hour?*

*Darkness abateth nothing of Love's
power.*

*The friendly night, veiling day's world
from view*

Awakes the unresisting soul anew . . .

Compelling, without a stir or sound

*The Eternal draws like living arms
around . . .*

*Nature's attuned communicant may be—
Thou know'st thyself in It and It in thee.*

—I. M. SMITH

Theories, Theories!

ANNE PHILLIPS

AS new data come in from observation and experiment, new problems are introduced, and to explain these problems scientists formulate new theories. We have been reading about "quasars" in astronomical journals; now comes the suggestion that most of these mysterious objects in space are actually ghostly images, or reflections, caused by the bending of light rays according to the Einstein hypothesis. Truly, mankind lives in a world of illusion.

The Universe a Lens

A theory that the entire universe may act as a lens and form multiple images of single quasars has been put forward by Dr. Vahe Petrosian of California Institute of Technology and Dr. Edwin Salpeter of Cornell University.

Einstein's theory of general relativity predicts that light rays will be bent by the gravitational effects of massive bodies. Drs. Petrosian and Salpeter reason that if the universe were the proper shape and mass were properly distributed inside it, then it might bend light rays from quasars so as to form images of them in places where they are not.

The quasars most susceptible to multiple imaging would be those with red shifts of 1.95. These do in fact appear in large numbers and they do appear to be at the same distance in space as the multiple images of the new theory would be.

Observation of several quasars in the same part of the sky with identical properties (not only red shift) should support the theory. But, the authors point out, the theory is complex and observations are difficult. So statistical analysis of observations over a long period of time may be necessary.

The theory is published in *THE ASTROPHYSICAL JOURNAL* for February.

—*Science News*, April, 1968

Neutron Stars and White Dwarfs

We learn further that the "neutron star", which has received wide publicity has been "demoted."

When it was first discovered (SN: 3-16 p. 255), what is now called Pulsating Ra-

dio Source One was described, perhaps whimsically, as a possible signal from some extraterrestrial intelligence. Then more seriously, it could have been the first observed neutron star. Now, as data on the strange, regularly pulsating object is evaluated, it seems to be a still-strange but less exotic hot, white dwarf.

At least that is the theory—developed by Dr. Kip Thorne and graduate student James Ipser of the California Institute of Technology—gaining currency among astrophysicists.

Dr. A. G. W. Cameron of Yeshiva University, New York, says the source is definitely not a neutron star, and endorses the Thorne and Ipser findings. Dr. Cameron is working on some details of the theory, such as how the energy of a shock wave becomes channeled into radiation in the radio frequency range.

Dr. Allan R. Sandage of Mt. Wilson and Palomar Observatories says his strong belief is that it is not a neutron star but a white dwarf, citing Dr. Thorne's calculations as additional substantiation.

What Ipser and Dr. Thorne have done is to show—"fairly conclusively," they believe—that the source cannot be a pulsating neutron star for one simple reason: to vary its radiation at such a rapid rate—every 1.33 seconds—would require a very low density and low mass, and to form a neutron star of such characteristics requires an inexplicable input of energy.

They have also pulled together some theories concerning white dwarfs. In 1950, Profs. Paul Ledoux and E. Sauvinier-Goffin investigated the energy source of white dwarf stars. Their conclusion was that a hydrogen-fueled white dwarf would be explosive with an uncontrolled thermonuclear reaction instead of the controlled fusion with which most stars burn.

Dr. Thorne believes that unburned hydrogen in the outer envelope could set the star pulsating when it sinks toward the core and burns explosively as the earlier model dictates. Dr. Thorne and another graduate student, David Meltzer, when they were at Princeton University several years ago, calculated the kinds of pulsations that might occur if the hydrogen surrounding a white dwarf burned explosively.

They found that any pulsation driven by an explosion in the envelope would be coupled to the first harmonic, not the fundamental mode. This means that when the surface is expanding, the center will be compressing. The periods they calculated for this pulsation are of the right magnitude for the source observed by the British

radio astronomers—one-half a second to 20 seconds.

Dr. Thorne believes he has arrived at "a very attractive, self-consistent picture" for a rapidly varying radio source, but stresses that this is far from proof.

Models of the Atom

But the multitude of theories is due for harmonization. The news item quoted below shows:

Physics is due for a breakthrough. The conditions are there; a large number of well-ordered facts, with no present way of explaining them, and a large body of frustrated scientists.

But after 10 days of intensive discussion and analysis at three separate conferences in the last two weeks, it's quite clear that no one knows when the breakthrough will come, or how.

At the University of Miami's High Energy Conference, at the Chicago meeting of the American Physical Society, and at an all-day symposium sponsored by Northwestern University following the APS meeting, physicists described to each other their efforts to explain and describe how elementary particles interact.

How much of a breakthrough will be needed is an open question. Some physicists feel that a revolutionary idea, like the quantum mechanics which changed the physicist's whole way of looking at matter during this century, will be needed.

Others feel that physicists already may have almost all they need to put together a complete picture.

At Northwestern, Dr. Gell-Mann said the lack of sharp paradox, in contrast to mere unexplained facts, made him doubt that a revolution was needed. "You can smell such a situation," he said. "I just don't see the kind of paradox now that existed before Bohr explained the atom."

In this century it has been possible to describe the atom as a hard core surrounded by orbiting electrons; and then the atomic nucleus appeared as a composite of neutrons and protons held together by a short-range force much stronger than the electric force which would tend to push them apart. Both these concepts are easy to visualize.

But with the elementary particles, including neutrons and protons, physicists just don't know what the underlying causes of behavior are.

On the other hand, they have discovered more than a hundred particles, many of them created in high-energy accelerators and existing for only a fraction of an instant, they have catalogued them and classified them according to their mass, their electric charge, the way they spin, and various other qualities.

They have found that some of the particles can be organized in groups of eight or ten with similar properties. But under-

standing, as well as explanations of inconsistencies in the groupings, remain elusive.

One promising concept, which however hasn't yielded very good numerical results, is that the particles that are subject to the strong force binding nucleus are made up out of each other, so that none of them is fundamental.

The basis for this theory, called the bootstrap hypothesis, comes from the way forces are applied between particles. Physicists found they could describe electromagnetic forces by saying that charged particles exchanged another particle, called a photon, and by this means exerted electromagnetic force on each other.

The strong forces are also exerted by exchanging particles other than photons. What the bootstrap theory suggests is that any strongly-interacting particle can serve as the means of exerting strong forces between two others. When two particles exert a strong force, they create another, producing a bound system; and that system, according to the theory, is the created particle.

Another theory, easier to visualize but extremely unlikely to be more than a mathematical tool, is the four-year-old quark model, which holds that the particles are made up of combinations of two or three different kinds of sub-particles.

Developed by Dr. Gell-Mann the quark hypothesis predicts the grouping of particles into already observed sets of eight and ten.

Because the quark model has had such success in predicting properties of particles, an enthusiastic search for physical quarks has been taken up by many experimentalists, so far without success.

In fact, as Dr. Gell-Mann vehemently pointed out at Northwestern, the chance that they actually exist is extremely slim. And if they are only mathematical, there's nothing in the quark model that would contradict the bootstrap hypothesis.

—*Science News*, Feb. 1968.

Scientists, following the dictum not to make more hypotheses than they need, like to keep their theoretical model simple. Unnecessary complications are not popular.

But when too many facts fall outside the model, it has to be expanded. The theoretical picture of sodium, potassium and other alkali metals has reached that point, says solid-state physicist Albert W. Overhauser, of the Scientific Laboratories at Ford Motor Co., who proposes a new, more complex model. If the new model is accurate, a tremendous body of theoretical work on the properties of metals will have to be revised.

Only in the last few decades has it been possible to describe the details of how atoms in a solid behave. Out of this understanding has come, among other technological advances, the development of transistors and other semiconducting devices.

Although the alkali metals are not as technologically useful in their pure state as other metals—they react too quickly with other elements—their simple atomic struc-

ture has made them basic to the understanding of other more complicated elements.

Their distinguishing feature is that they have only one, easily-detachable electron in the outer shell, and few electrons in inner shells. From this, it has appeared possible to assume that the outer electrons are free to move about within the solid, forming a sort of gas, instead of being tied down to orbits around particular atoms. As in other conducting metals, it is this gas of free electrons that carries electric current.

The simple model of the alkalis assumes that the sum of all forces on any one outer-shell electron is zero; that is, the forces cancel out, and the electrons move about unaffected, on average, by the atomic nuclei. A result of this is that the density of the electron gas is the same throughout the metal.

From this simple model, the properties of the metals can be predicted. Physicists can measure what happens to the metals when they are bathed in light, placed in magnetic fields, or subjected to electric forces. Similar quantities can be measured for more complex elements, too—elements like copper, iron and chromium whose theoretical models are more complicated.

Differences in measured behavior of simple and complex metals can give clues as to the structure of those more complicated elements. In this way, the simple theory helps experimenters to choose what measurements to make, and the experiments elaborate the theory.

The trouble is, according to Dr. Overhauser, that experiments with alkali metals have turned up results different from those predicted by the simple model.

The amount of light energy, for instance, that is absorbed by a metal, compared with what it reflects, depends on the frequency of the incoming light. The absorption pattern of metals is a commonly measured quantity.

One of the most important misbehaviors of the alkali metals is the way they absorb light.

According to the simple theory, absorption by potassium should decrease smoothly with increasing frequency up to 1.3 electron volts. But an experiment four years ago in Germany showed a big peak in the absorption curve at 0.6 electron volt.

Other effects, mostly concerned with the magnetic behavior of the metals, have been observed to vary from what would be predicted by the simple model. The electrical resistance of alkali metals is seen to increase rapidly in a magnetic field, contrary to the theory; the amount it increases depends on the orientation of the metal crystals, and is sensitive to stress.

The latest anomaly observed is the tailing off of the Hall effect. When a strip of metal, carrying a current, is placed in a magnetic field, a voltage develops across the edges of the strip, perpendicular to the current flow and the field. This voltage, according to the simple model, is proportional to

the current and the field; that is, the proportionality constant, called the Hall constant, doesn't change.

But with increasing magnetic fields above 50 kilogauss, the Hall constant has been observed to decrease in experiments on alkali metals . . . In order to explain these and other unexpected results, says Dr. Overhauser, it is necessary to abandon the simplifying assumption that the electron gas has the same density everywhere.

Instead he says, the electrons interact with each other to cause bunching, so that the density of electrons varies in a sort of washboard effect. This variation Dr. Overhauser calls a charge density wave.

If the charge density wave is cranked into the theoretical model, the behavior



that has been observed in sodium and other alkali metals can be predicted, says Dr. Overhauser. But acceptance of the theory is slow.

—Carl Behrens in *Science News*, Apr. 1968

This news writer (Carl Behrens) observes concerning the "charge density wave" theory that one reason why physicists are hesitant or slow about accepting it is that it complicates experiments as well as theories. And he adds that this is "because the character of the wave can be changed by exterior conditions, such as magnetic fields." This means that a number of physical qualities actually change under varying conditions or environments, and are not constant as formerly supposed. The act of observing them might change or alter the value obtained, he explains.

He adds: "One prediction that hasn't been observed as yet is that if electron behavior is modified, it should affect the arrangement of positive ions in the metal also." The experiment would be difficult, he says, requiring exceptionally sensitive measurements, but it should be possible with a "really careful search of X-ray diffraction patterns from single crystals."

Readers are doubtless familiar with the oldest model of the atom, in which the proton is compared to a central sun around which electrons revolve in orbits or layers or "shells", but in this theory the electrons are not limited to orbits, but instead move freely all through the atom, like a kind of gas. It is this gas of free electrons which carries the electric current.

The author observes that it has been only in the last few decades that physicists have been able to show in detail how atoms in a solid behave; and so we realize that they simply have not yet had time to work out all the problems involved, but progress is continuous.

The "Mysterium"

Acoustical waves generated in interstellar graphite flakes may be the ultimate source of the anomalous radio power put out by the hydroxyl radicals in interstellar gas clouds.

Hydroxyls, combinations of one hydrogen and one oxygen atom, have been seen in interstellar space since 1963, but because of the peculiar manner in which they radiate they were at first not recognized for what they are.

Hydroxyls radiate a distinctive pattern of sharply defined radio frequencies. These were found in the 1963 emanations (at first dubbed mysterium) but the ratios of their intensities were not what quantum mechanics predicted for the molecules in a natural state.

Observers finally decided that the mysterium was indeed hydroxyl, but that it was subject to some kind of maser action that accounted for the unusual intensities. The problem was explaining the origin of the maser action.

Now Dr. N. C. Wickramasinghe of the Institute of Theoretical Astronomy, University of Cambridge, suggests (in *Nature*, March 23) that interstellar graphite flakes—stellar debris—may play a part.

He notes that acoustic pulses of microwave frequency can be amplified in certain

semiconductors (graphite is one) and generate electromagnetic pulses of the same frequency.

The process would be started by shock waves that set the flakes into rotation. Interaction between the rotation and the interstellar magnetic field would build up the acoustic vibrations. The radio waves they then generate would pump the hydroxyl's emissions.—*Selected*.

Sound waves in space — how many interesting facts of our great universe now come to light! True, some theories which attempt to explain these new facts have to be thrown out almost as soon as they are formulated, and still new items come in! The theory of sound waves in space ties in with the ancient dogma about the "Word", or Cosmic Sound, emanating from the Divine Intelligence or Creator, which began the universe and set it on the pathway of evolution.

Theory Diluted

Current theories on the causes of superconductivity — the flow of electric current without resistance at very low temperatures — have been in trouble because some predictions based on them haven't been backed up by experiment.

One prediction — that the temperature at which a substance becomes superconducting should be lower in the heavier of two isotopes of a given element — has been found to be way off, according to experiments reported in the Oct. 16 *Physical Review Letters*. Uranium 235 was found to have a lower temperature than its heavier isotope, U-238 by Dr. Robert D. Fowler and four other physicists at Los Alamos Laboratory.

The test results were claimed to be "final proof that here a mechanism other than phonon-electron interaction (as currently theorized) leads to superconductivity."

—*Science News*, Oct. 23, 1967.

The flow of electric current at very low temperatures, without resistance, has been engaging scientific thought for some time now; it is the phenomenon of superconductivity. Here something new enters the picture . . . but as yet no one can say what it is. The "old" theory, which is a very young one, is now being re-examined.



A STEPPING STONE

THE views expressed in this article are entirely my own, and not to be considered as sponsored by The Rosicrucian Fellowship. However, they are given in the hopes that they may be of help to fellow members.

The "stepping stone" referred to in the title is the use of the sex force in marriage. I have for many years been familiar with Max Heindel's teaching about sex: that it may rightly be used only for the procreation of children, and that its use for physical enjoyment is wrong in all circumstances. I accept this teaching as true, but at the same time it seems to me that it is incomplete. I do not see that one can possibly go straight from the second to the first of these two possibilities, any more than a child could go straight from the lowest form at school to the highest. There must surely be a "stepping stone," a middle way, between them.

This, I believe is provided by what I would venture to call the sacramental use of the sex force, understanding by "sacrament" the outward sign of an inward and spiritual truth. When husband and wife truly love each other, and seek to express that love in physical union, then they are giving outward expression to the inward love which fills their hearts. Only for those who have reached a very high stage of spiritual development is this wrong. It should, however, be realized that conservation of the sex force is a necessary condition of reaching that high stage of development. But surely, until it is nearly attained, the sex force may legitimately be used by married couples, not only for the procreation of children, but when children are no longer wanted, for the strengthening of the unity and harmony which should exist between husband and wife.

It seems to me that in omitting this stepping stone, we are doing a dis-service to the Rosicrucian Teachings. In the world today the emphasis is glaringly

on the wrong use of sex — merely for physical pleasure. If we set before people an impossibly high ideal, they are likely to turn away from it. If we set the same ideal before them, but explain that there should be a *gradual* progress toward the fulfillment of the ideal, they are more apt to accept it. Also, at a time when divorce is so common, strengthening factors are surely needed in marriage, and sex in marriage, used reverently and with a due sense of its power and mystery, can strengthen the bonds uniting husband and wife.

Surely, much of the decline in moral standards just now is due in large part to parents, teachers, and clergy not having the courage of their conviction — not saying to young people, loud and clear: "The use of sex for the physical satisfaction it can bring is wrong. The basic function of sex is the procreation of children; a secondary use is the strengthening of unity and harmony between husband and wife. To use sex casually is to degrade and cheapen a holy function — as well as the individuals participating.

But above all, should not more emphasis be put upon the world's desperate need for people whose lives exemplify unselfishness, joy, peace, and other fruits of the spirit?—Y.J.F.

TRANSMUTATION: Physical exercise is the easiest means of sublimating the sex force, but when accompanied by creative thoughts is more effective. Instead of seeking physical gratification when conscious of the surging impulses of the lower nature, if the individual will focus his thoughts and imagination upon something he desires to create — an invention, a picture, a poem, a musical composition, or a project in home or business — he will find that a double purpose is served. The objective demonstration will be accelerated and the process of transmutation within his body will, at the same time, be noticeably stimulated.

Tennyson As a Mystic

SHIRLEYANN O'NEILL

Part 4

WHEN Tennyson wrote *The Holy Grail*, the most mystical and beautiful of all his *Idylls*, he gave the world an inspiring message direct from the depths of his own mystical nature and inner understanding of the mysteries of the soul. He expressed, in verse, his conviction that within each and everyone is a Spark of the Divine Creator, clothed in an intensely beautiful light. He pictures the soul as ever seeking this Divine Spark and the light which surrounds it and asking only complete union with this glory. This he calls the Quest of the Holy Grail. Tennyson disguises this message in the tales of an ancient king and his knights seeking a cup which had been used by Christ at the Last Supper. To those who read with an understanding heart the message clearly shines through the symbolism in which he clothed it.

For those who cannot unveil its true meaning, the beautifully written verse captivates the imagination and distracts the attention from its more profound aspects. Very few have completely understood the story's essence.

The quest for the Holy Grail, mankind's most important work in this world, is understood by only a few such as Tennyson. He penetrates deeply into the hidden mysteries of the soul when, in the story of Galahad and Percival, he portrays Galahad as entering the spiritual worlds without experiencing physical death. This is clearly demonstrated when Galahad states:

But my time is hard at hand
And hence I go, and one will crown me king
Far in the spiritual city; and come thou too
For thou shall see the vision when I go.

The entire vision of Galahad's passing is contained in some of Tennyson's most beautiful lines. The poet's son,

Hallam, described this particular passage as:

A great and lofty vision of the glory of the pure spiritual life, refined by heavenly holiness into pure vision, with the world beyond the sense, and needing no death to enter into perfect life.

Tennyson was far in advance of his time in writing of his understanding of the transcending of physical death as the seeking soul strives to transmute matter into spirit. He probably received much adverse criticism from his contemporaries and possibly it was to this he referred in his poem, *Merlin and The Gleam*, when he stated:

A barbarous people
Blind to the magic —
Snarl'd at and cursed me —
The Master whispered,
"Follow the Gleam."

So he braved the criticism and followed the guiding Light of Spirit to give his message to the world.

By some interpreters Galahad has been called insipid and colorless. Littledale refers to him as a "superhuman incarnation of virtue, lacking the touch of Earth, too abstract, shadowy and cold to touch the heart," and, "there is more instruction in the weaklings of the world than in such lofty beings." * This shows a complete misunderstanding and misrepresentation of Galahad whom Tennyson used to illustrate the very essence of his message. Galahad was not an untried soul, but a pure soul that had been tried in the fire of all Earth's temptations and had the spiritual strength to resist and overcome. He is the loftiest and most outstanding character whom Tennyson portrayed. Galahad was so intent upon his quest for the Grail that he was impervious to all else. This is

* *Essays on Lord Tennyson's Idylls of The King*, Harold Littledale (London: Macmillan and Company, 1893), p. 230.

proven by his own account of his experiences and the fact that the Grail was always with him, "moving with me night and day," his strength and his power. "In the strength of this I rode, shattering all evil customs everywhere."

Tennyson's recital of the experiences of Galahad and Percival from the time Galahad appeared at the chapel door until he disappeared into the inner worlds exemplifies the most profound mysticism. He describes the manner in which Galahad, by his own superior spiritual power, assisted Percival to raise his own level of consciousness to the high degree where he could follow Galahad into the inner worlds in consciousness.

While thus he spake, his eye, dwelling on
mine,
Drew me, with power upon me, till I grew
One with him, to believe as he believed.
Then, when the day began to wane, we went.

Percival sees Galahad on the inner plane "moving swiftly" with the "Holy Vessel hung o'er his head and clothed in white Samite," symbolizing the pure soul at its inception and as yet untried. Then he sees it differently as "o'er his head the Holy Vessel hung, redder than any rose." The red describes the soul after it has successfully passed through all temptation and remained pure. Red in its lower vibration is the color of passion and worldliness, but this is not so in its higher vibration.

Red is the keynote of physical man and his evolution. All colors are purified and raised to a higher vibration by the pure, white Light of Spirit passing through them.*

The purified red of the Grail was indicative of Galahad's having passed successfully through the fires of temptation unscathed, retaining his purity.

The high spiritual state and purity of Galahad is shown earlier in the story in the incident of this knight sitting in the always unoccupied or thirteenth chair at Arthur's Round Table. To any

of the other knights sitting in this place meant destruction because they were spiritually unworthy and unprepared.

But when Galahad sat there we are told that:

A beam of light smote along the hall
And down the long beam stole the Holy Grail
All covered with a luminous cloud.
And every knight beheld his fellow's face
As in a glory.

Again the exalted spiritual state of Galahad raised the consciousness of those around him and they beheld the Light.

The symbology of the empty chair, or "Siege Perilous," is deeply mystical. Thirteen is a mystical number composed



of the one and three. One is symbolic of perfect man as God created him, while the three represents the Holy Trinity. As twelve is the number of the realization of Spirit as the All, the most important knowledge in life, thirteen is this realization manifested. It symbolizes a soul in perfect realization of the Divine Presence within the temple of the body with all its powers and attributes, the illumined, victorious soul in complete command as Christ was in command. Such a soul was Galahad and therefore worthy to occupy the sacred chair. He had found the Holy Grail.

Galahad had been heard to say in reference to the thirteenth chair, "If I lose myself, I save myself," thus paraphrasing the words of the Master, "He that loses his life for My sake shall find

* *The Voice of Isis*, (Homer Curtis, Washington, D.C.: Curtis Philosophic Book Company, 1955), p. 360.

it." This Galahad understood perfectly. The greatest number of people on this Earth live wholly in the outer, sense-ruled, pleasure-loving nature. To them this is life. But this belief is erroneous.

When one has advanced spiritually to a degree where he realizes this outer sense life is unreal, transitory, and the only true life is the Life of Spirit, he knows that only by denying the call of the flesh, thus losing what had formerly meant life, can he find permanent and eternal Life in Spirit. So Galahad proclaimed that he had denied the sense life to live wholly in Spirit.

Finding the Grail is a personal, inner experience which everyone must do for himself, one cannot give it to another.



It is a long, hard quest over a devious path, beset with many dangers, difficulties, and pitfalls for the majority of mankind. This quest is achieved only by the day to day struggle for perfection so that the lower nature of man is transmuted into spirit. This Tennyson portrays in the many battles, betrayals, dangers, wounds, and heart-breaking experiences of the knights in their search for the Holy Grail. All tried and were sincere, but the quest ended in failure for all but one. As St. Paul said: "All may run in the race, but only one receiveth the prize."

In the final Idyll, *The Passing of Arthur*, the King absorbs the attention from beginning to end. Nowhere does his humanity and high nobility appear in stronger relief than here. He stands face to face with his doom, and that

doom is the defeat of all his plans and the overthrow of the great structure which he had spent his life in erecting. In the midst of it all, that tranquility which is born of high courage and steadfast purpose does not desert him.

King Arthur had done his work as best he could, hampered always by the faults and sins of his followers. Pride, selfishness, disloyalty, and intrigue have brought about the destruction of the Round Table and his realm.

This Idyll stands out in marked contrast to *The Coming of Arthur*. Then the world was white with May and all was so clear about Arthur that he saw the smallest rock on the faintest hill, but now he moves in a blind haze and fights his last battle in a death-white mist that settles over land and sea. This pictures the last struggle with the forces of evil in the great battle of the West, the return, of the sword, Excalibur, to the lake whence it came, and Arthur's return to the great deep of the world beyond the material.

In this story the great and good King is dying alone, save for one faithful knight, amid the ruins of everything his noble life has represented. This appears to indicate that good can never triumph over evil in this world, and that the forces of darkness are stronger than the forces of light. It strikes a somber note in contrast to *The Holy Grail*, whose inspiring verses predict the destruction of evil and the ultimate and complete victory of the soul, even to the overcoming of death. But Arthur's abiding faith in God, his anguished cry that he does not understand the ways of God, rather than asserting the futility of seeking to abolish evil, refutes this. It is not the end of the great struggle but only temporary failure.

The circumstances bringing about the destruction of Arthur's kingdom at Camelot were the failure of his knights to live up to their solemn vows to abolish evil and uphold good, thus making the personal subservient to the spiritual. The weaknesses of human nature in climb-

ing the steep path leading to spiritual attainment are very apparent, as is the extreme difficulty of the soul's struggle to overcome and take control on the outer plane. The human personality is strong and, at mankind's present stage of development, in control in the material world. This was the cause of the destruction of Arthur's realm. He had labored sincerely and continuously to teach control of the sense nature and make spirit supreme. In this he did not succeed, but it does not mean defeat of the soul's forces, for the Light can never fail. The weary soul must now return to the spirit world to be refreshed and made ready to try again. Arthur passes from earth to "vanish into light." He goes to the great deep of spirit from which he came and from which he will come again thus fulfilling Merlin's prophecy:

From the great deep to the great deep he
goes.
He will not die,
But pass, again to come, and then or now
Utterly smite the heathen underfoot,
Till these and all men hail him for their king.

The soul passes through many cycles of manifestation until it achieves complete victory on the outer plane and takes command, overcoming all that wars against it, even death, as did Galahad.

Throughout his interpretation of the legend of King Arthur and his knights and their quest for the Holy Grail, Tennyson refers to the King as blameless; a pure, sinless soul strong enough to withstand all temptation even as Galahad did. He was a shining light for his people as the image of Arthur over the gate at Camelot signified. He worked selflessly and sincerely to uphold good and destroy evil, inspiring everyone in his kingdom to follow his example. But Arthur never had a vision of the Holy Grail, the sincere desire of his pure heart. He met with failure when success should have been assured. Since Tennyson wished to convey that pure spiritual living brings, as a reward, the vision of the Grail, the Divine Light within,

this incongruity seems to defeat the purpose of his message. This must have been in the mind of Arthur when he declared: "All my mind is clouded with a doubt," a clear indication that he did not understand why the Light he loved and served had failed him.

It has been written by the mystics of old that at some point on its journey back to its Divine Source, every soul must know crucifixion. It was to this that the mystic, Angelus Silesius, referred when he wrote:



Golgotha's cross thou lookest to in vain,
Until within thyself it be set up again.

At some time the soul is crucified on the cross of matter that it may be lifted up into union with Divine Spirit. Tennyson, aware of this, presents the failure of Arthur and his destruction by the forces of evil that he had sought to overcome as his soul's crucifixion. The King asserts this in his cry:

I found Him in the shining of the stars,
I marked Him in the flowering of His fields,
But in His ways with men I find Him not.

Arthur, sinless and blameless, was a crucified soul; for at the close of a perfect life when he should have known

victory and attainment, he saw his life and all that he had built in ruins about him. All was destroyed and the knights he loved were warring against him and against each other. Evil was rampant although he had striven to establish good. His heart was torn with sorrow by the faithlessness of his Queen and the betrayal by his most beloved and trusted knight. Nothing was left and, forsaken and dying, he finds himself in what he describes as a "blind haze" and says to Bedivere:

O Bedivere, for on my heart hath fallen
Confusion, till I know not what I am,
Nor whence I am, nor whether I be king;
Behold, I seem but king among the dead.

Surely this was a soul's crucifixion.

While there was sadness, frustration, and apparent failure in the death of Arthur, there was also the shining light of hope and the assurance that this was not the end. The King's last stroke with his sword, Excalibur, was the slaying of Modred, the embodiment of treachery and evil. When Bedivere finally cast the sword into the water from whence it came, rather than keeping it amid that awful scene of death and destruction, it is deeply symbolic. The Light of Spirit and Truth never dies despite the appalling destruction about it; it is held safe in the "great deep" until the dawning of a new day, when it is passed to another to be presented once more under new conditions and in a new way.

The old order changeth, yielding place to new
And God fulfils Himself in many ways . . .

At the close of each cycle in mankind's development darkness seems to reign, but the Light will come again, more intense and on a higher level, for the evolutionary spiral is upward. But eventually darkness will be vanquished in its final defeat, and Light and Truth will rule supreme.

Tennyson realized that the salvation of mankind lay in the sacrifice, or crucifixion, of the lower nature to the higher spiritual nature, the Divine Light within. This is not easily accomplished,

and is attained only after many trials and failures. This belief is what he wrote into the story of King Arthur and his knights. He knew that the daily, almost hourly crucifixion of the lower sense nature to the Spirit within was a necessity. He wished to give to the world the message that by living the life taught by the Master, a life of purity, compassion, selflessness, service to others, and universal brotherhood, we are prepared for the glory of the vision of the Holy Grail.

Tennyson was a true mystic and this was reflected in his life as well as in his writings. His great soul was intuitively conscious of spiritual realities. Prayer was to him a living fact or power, and some of his words concerning the spiritual life are among the noblest ever written. He confidently put his trust in Living Omnipotence and reverently and beautifully expressed the hope of seeing the guiding Pilot of his life when, with the outflow of its river-current into the ocean of the Divine Unseen, he crossed the bar.

CROSSING THE BAR

Sunset and evening star,
And one clear call for me!
And may there be no moaning of the bar,
When I put out to sea,

But such a tide as moving seems asleep,
Too full for sound and foam,
When that which drew from out the
boundless deep
Turns again home.

Twilight and evening bell
And after that the dark;
And may there be no sadness of farewell,
When I embark.

For tho' from out our bourne of Time
and Place

The flood may bear me far,
I hope to see my pilot face to face
When I have crossed the bar.

—TENNYSON

MAX HEINDEL'S MESSAGE

Taken from His Writings

THE VITAL BODY

THIRTY-THIRD INSTALLMENT

Relation of Vital Body to Spiritual Development

Ancient Initiation

IN ancient times, certain ceremonies were performed in the temples to bring about the cleavage of the vital body.

In the ancient Mystery Temples the main truths now taught by The Rosicrucian Fellowship concerning the vital body were given to the aspirant to initiation. He learned that this vehicle was composed of the four ethers: the chemical ether, which is necessary to assimilation; the life ether, which furthers growth and propagation; the light ether, which is the vehicle of sense perception; and the reflecting ether, which is the receptacle of memory.

The aspirant was thoroughly instructed in the functions of the two lower ethers as compared with the two higher. He knew that all the purely animal functions of the body depended upon the density of the two lower ethers and that the two upper ethers composed the soul body — the vehicle of service in the invisible world. He aspired to cultivate this glorious garment by self-abnegation, curbing the propensities of the lower nature by will power, just as we do today.

But some, who were overzealous to attain, no matter how, forgot that it is only by service and unselfishness that the Golden Wedding Garment, composed of the higher ethers, is grown. They thought the occult maxim, "God in the crucible, dross in the fire; light as the

winds, higher and higher," meant only that so long as the dross of the lower nature was expelled, it did not matter how it was done. And they reasoned that as the chemical ether is the agent of assimilation, it could be eliminated from the vital body by starving the physical body. They also thought that as the life ether is the avenue of propagation, they could by living celibate lives starve it out. They would then have only the two higher ethers, or at least these would be much larger in volume than the two lower.

To that end they practised all the austerities they could think of, fasting among others. By this unnatural process the body lost its health and became emaciated. The passional nature, which sought gratification by exercise of the propagative function, was stilled by castigation. It is true that in this horrible manner the lower nature seemed to be subjected; and it is also true that when the bodily functions were thus brought to a very low ebb, visions, or rather hallucinations, were the reward of these people; but true spirituality has never been attained by defiling or destroying "the temple of God," the body, and fasting may be as immoral as gluttony.

There can be no doubt concerning the power of holy water prepared by a strong and magnetic personality. It takes on or absorbs the effluvia from his vital body, and the people who use it become amenable to his rule in a degree commensurate to their sensitiveness.



Consequently the Brazen Lavers in the ancient Atlantean Mystery Temples, where the water was magnetized by divine Hierarchs of immeasurable power, were a potent factor in guiding the people in accordance with the wishes of these ruling powers. Thus the priests were in perfect subjection to the mandates and dictates of their unseen spiritual leaders, and through them the people were made to follow blindly. It was required of the priests that they wash their hands and feet before going into the Tabernacle proper. If this command was not obeyed, death would follow immediately on the priest entering the Tabernacle. We may therefore say that as the keyword of the Brazen Altar was "justification," so the central idea of the Brazen Laver was "consecration."

When death came, Moses' face *shone* and Buddha's body became *alight*. They all reached the stage when the Spirit begins to shine from within — but then they died.

The Race Spirit took special care of certain sects of people, for example, the Levites among the Jews, who were destined specially for priesthood, and they were herded around the temples and were specially bred to be the forerunners and teachers of their brethren. Their system of mating and regulation of the sex life of these special proteges produced a more lax connection between the vital body and the dense body, which was necessary in order that initiation might take place and help man to advance. As long as the Race Spirit works with us we are under the law; we are only overcoming the influence of the desire body; therefore, Paul says well that the law was until Christ — not until Christ came 2000 years ago, but "until Christ be formed in you." When we release ourselves from the toils of the desire body and live up to the vibrations of the vital body, we become imbued by the Christ Spirit. Then and only then do we rise out of the national, the separating principle. Then do we become

capable of being brothers to men.

When Parsifal started to go with Gurnemanz to the Castle of the Grail, he asked Gurnemanz: "Who is the Grail?" "That tell we not, but if thou hast been of him bidden, From thee the truth will not stay hidden. The search but severs from him wider When he himself is not its guider." That means that in the olden times, in the time before Christ came, only a chosen few could follow the path of initiation. Nobody could seek that path — nobody could get beyond the point where the rest of humanity were — save a few chosen ones such as were the priests and the Levites. These were brought to the Temples, and there herded together. They were married to one another in a certain way; certain people were mated with a definite end in view, namely, that they might develop the proper laxity between the vital body and the dense body that is necessary to initiation. A separation has to take place in order that we may lift the two higher ethers out, and leave the other two. That could not be done with the ordinary humanity. They were yet much in bondage to the desire body. They must wait until a later time.

As ether is the avenue of vital, creative forces, and as Angels are such expert builders of ether, we may readily understand that they are eminently fitted to be warders of the propagative forces in plant, animal, and man. All through the Bible we find them thus engaged: Two *Angels* came to Abraham and announced the birth of Isaac, they *promised* a child to the man who had obeyed God. Later *these same Angels* destroyed Sodom for *abuse of the creative force*. *Angels* foretold to the parents of Samuel and Samson the birth of these giants of brain and brawn. To Elizabeth came the *Angel* (not Archangel) Gabriel and announced the birth of John. Later he appeared also to Mary with the message that she was chosen to bear Jesus.

(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.

Constitution of the Earth

(Continued)

Q. What is the eighth stratum called?

A. The Rosicrucians call the eighth stratum the Atomistic Stratum.

Q. What is its nature?

A. It seems to have the property of multiplying many fold the things in it; this applies, however, only to those things which have been definitely formed. An unshaped piece of wood, or an unhewn stone has no existence there, but upon a flower, say, this stratum has the effect of multiplication to an astonishing degree.

Q. What distinguishes the ninth stratum?

A. This stratum is the Material Expression of the Earth Spirit. There are here lemniscate currents, which are intimately connected with the brain, heart, and sex organs of the human race. It corresponds to the World of God.

Q. Can any further information concerning the core of the Earth be given out at present?

A. Nothing more can be said about the Center of Being of the Earth Spirit at this time except that it is the ultimate seed ground of all that is in and on Earth, and that it corresponds to the Absolute.

Q. Is there any connection between volcanoes and the layers of the Earth?

A. Indeed there is. From the sixth or fiery stratum to the surface of the Earth are a number of shafts in different places. The outer ends of these are called "volcanic craters."

Q. What causes the volcanic eruption?

A. When the Nature Forces in the seventh stratum are unleashed so that

they express themselves through a volcanic outburst, they set the fiery stratum in motion and the agitation spreads outward to the mouth of the crater.

Q. Are other strata affected by the outburst?

A. Yes. The bulk of the material is taken from the substance of the second stratum, for that is the denser counterpart of the sixth stratum, as the vital body, the second vehicle of man, is the denser counterpart of the Life Spirit, the sixth principle.

Q. What is the nature of this material?

A. This fluidic stratum, with its expansive and highly explosive quality, insures an unlimited supply of material at the point of eruption. The contact with the outer atmosphere hardens that part of it which is not blown away into space, thus forming the lava and dust, until, as the blood from a wound congeals and stanches the flow, so the lava finally seals the aperture from the inner parts of the Earth.

Q. What type of people are usually affected by volcanic catastrophes?

A. Generally speaking, it is the profligate and degenerate peoples.

Q. How is this brought about?

A. These people, together with others whose destiny (self-generated under the Law of Consequence), for various reasons, involves a violent death, are gathered from many lands by the superhuman forces, to the point where the eruption is to occur.

Q. Can this be proved?

A. The volcanic outbursts of Vesuvius afford corroboration of this statement.

Ref.: *Cosmo-Conception*, pp. 507-508
(Continued)

WESTERN WISDOM BIBLE STUDY

Healing Miracles of Christ

CORINNE HELINE

The Raising of the Widow's Son of Nain

And it came to pass the day after, that he went into a city called Nain; and many of his disciples went with him, and much people.

Now when he came nigh to the gate of the city, behold, there was a dead man carried out, the only son of his mother, and she was a widow; and much people of the city was with her.

And when the Lord saw her, he had compassion on her, and said unto her, Weep not.

And he came and touched the bier: and they that bare him stood still. And he said, Young man, I say unto thee, Arise.

And he that was dead sat up, and began to speak. And he delivered him to his mother.—*Luke 7:11-15.*

The raising of the Widow's son as recounted by Luke contains also the outline of Lazarus' illumination or Christing. *Nain* (the name of the village) means nine,, and *the death of the Widow's Son* is mystic phraseology descriptive of one who has traveled the tortuous Way which leads through death (of the personal) to resurrection (into the impersonal). Such an one is no longer "the son of a widow." Luke explicitly states that after he arose Christ Jesus "delivered him to his mother." Equilibrium between the two poles of Spirit, masculine and feminine, was established. This is the supreme attainment of the Christian Mysteries, foreshadowed in the Rites of ancient times but consummated in the Mysteries established by the Christ. Thus it is that Christ is the Light of the World, the goal of all ancient Teachings. Equilibrium in Spirit had been lost under the old regime; even the Mysteries had degenerated into almost meaningless (and frequently cruel) ritual in many instances. Christ Jesus came pointing the way back: "I am the Way, the Truth, and the Life." To become Christed or initiated in *His Name* is the supreme purpose of Earth evolution.

The son of a widow is an allegorical phrase that has reference to one who is

attempting to develop the polarity of Spirit within. From the days of ancient Egypt to the present, members of the Masonic Order have been so styled.

The "widow's son of Nain" refers to one who has passed through the nine Lesser Mysteries and is now prepared (as was Lazarus) to be raised by Christ into the Greater or Christian Mystic Initiations. This is the ultimate of the 33rd degree ($3 \times 3 = 9$). It is foreshadowed in the 18th degree ($8 - 1 = 9$).

Beginning with the Degree of the Rose Croix (18th degree), and continuing through the 33rd degree, the Candidate is working definitely on the completion of his own selfhood, that Temple made without hands, but eternal in the heavens. This is his golden wedding garment, or perfected soul body. With the consummation of this Work he is no longer the Widow's Son. Polarity is attained, and his "healing" is complete.

The Deaf and Dumb Man Healed

And again, departing from the coasts of Tyre and Sidon, he came unto the sea of Galilee, through the midst of the coasts of Decapolis.

And they bring unto him one that was deaf, and had an impediment in his speech; and they beseech him to put his hand upon him.

And he took him aside from the multitude, and put his fingers into his ears, and he sat, and touched his tongue.

And looking up to heaven, he sighed, and saith unto him, Ephphatha, that is, Be opened.

And straightway his ears were opened, and the string of his tongue was loosed, and he spake plain.—*Mark 7:31-35.*

We are in bondage under the Law so long as we remain in ignorance of its true nature, but in the wisdom of the Christ we become free, because there is no longer any dissonance between our individual keynote and that of the Universe. This is the meaning of the teach-

(Continued on page 409)



Windows on the New Astronomy

KENT LORIMER

Part V

Occultations of the Moon and the Center of our Galaxy

Astronomers have long had a list of stars which are occulted by the Moon — blocked out — although astrologers have paid little attention to these, since, in the West, the natural zodiac was ignored in casting the horoscope according to the “intellectual zodiac.” Probably these occulted stars play a part in the oriental astrology which still uses the natural zodiac, and may be concerned in the lunar mansions. We have mentioned the “twenty-seven passages of the Moon through its point of greatest apparent latitude” as influencing earthquakes.

Today astronomers are using the Moon's occultation to determine the nature and direction of forces which come to Earth from the center of our galaxy, the Milky Way, through the “window” of Sagittarius. We quote:

The center of the earth's galaxy is a point of unique interest to astronomers; any attempt to describe or explain the structure, dynamics or evolution of the galaxy must contain information about conditions at and near the center.

Unfortunately, direct observation of the center by visible light is impossible. The solar system lies halfway between the center of the galaxy and the edge — about 25,000 or 30,000 light years from each. Interstellar dust limits our view in the galactic plane to only a few thousand light years. There was thus no hope of seeing the center until radio astronomy developed within the last 20 years.

Because their wavelengths are greater than the dimensions of the dust particles, radio waves are not absorbed by the dust. Radio signals from the center of the galaxy and even beyond are received.

Clouds of interstellar gas have been found near the center. Such clouds inhabit other parts of the galaxy also, and it is the sizes and motions of these clouds that give information about galactic dynamics.

The gas clouds show up by absorbing part of the galactic background radiation, which is a mixture of signals from many sources that gives a continuous wideband spectrum. Sometimes certain sharply defined wavelengths are absorbed; these absorption lines identify the substances in the clouds. Both hydrogen and hydroxyl ions are known to be there.

From a shift of the frequencies from those measured at rest in the laboratory, the speed at which the gas moves can be measured.

Present radiotelescopes, however, do not have sufficient resolving power to obtain good enough data on position and extent of the gas clouds. To get around this problem, the techniques of observing lunar occultations has been developed.

When the moon passes between the earth and a distant source it progressively cuts off the distant signal. Astronomers make a record of the times at which different signal components are extinguished. Knowing the position of the moon at those moments, they know with extremely high accuracy the direction each part of the distant signal was coming from.

The technique can be used only in the narrow band of the sky to which the motion of the moon and other bodies of the solar system is confined. Fortunately the galactic center is also there — in the constellation Sagittarius. Occultation studies are possible for about two years out of every 19; during that period the moon makes a monthly pass through Sagittarius.

We are now in such a period—it began last fall and will continue until 1970—and more than a dozen observatories all over the world are taking advantage of the opportunity, including Parkes, Australia; Ber-

keley, Calif.; the National Radio Astronomy Observatory in West Virginia; Jodrel Bank England; Nancy, France, and Pulkovo, U.S.S.R. Each will be watching the occultations it can observe, and since the moon takes a slightly different path on each pass and each path looks different to widely spaced observers, the result of the effort should be information about a sizable area around the center of the Milky Way galaxy.

Representatives of some of the observatories involved informally reported first results during the meeting of the International Scientific Radio Union in Washington, D.C. Some of the gas clouds have angular diameters around 5 or 10 minutes of arc; if they are at the distance of the galactic center this would mean they are tens of light years wide. Speeds range from one to 130 kilometres per second; slow clouds are thought to be near earth, fast ones near the center.

This may be the only time in history such observations will be made. Twenty years ago existing telescopes couldn't handle them; 20 years from now, says Dr. Frank J. Kerr of the University of Maryland, radiotelescopes may be so good they won't need to relay on lunar occultations.

—*Science News*, Apr. 27, 1968.

This article is important, since the Moon's occultations of fixed stars have been noted from ancient times, even though modern astrologers in the West, who use the "intellectual zodiac" do pay so little attention to them.

There are one or two statements in this article, however, which are not entirely clear, and might be misunderstood. "Fortunately the galactic center is . . . in the constellation Sagittarius," the writer says. But an astronomer has explained that this does not mean that the stars of Sagittarius constitute the center of the galaxy (our Milky Way). Not at all. The center of the galaxy lies in far away space, BEYOND Sagittarius. Sagittarius is the window THROUGH WHICH we look in the direction of the center, but there is so much cosmic dust in the way that it is difficult for astronomers to see what is there. Radio waves are not hindered by cosmic dust and therefore these waves, coming to earth through Sagittarius, give the astronomers some idea of what is going on in the invisible center. The center is far thicker than the outer edge of the galaxy, and it is known that there are clusters of giant suns there.

Again this writer says: "Occultation studies are possible for about two years out of every nineteen; during that period the Moon makes a monthly pass through Sagittarius."

Of course every student who has an ephemeris knows that the Moon goes all around the zodiac every month, passing through Sagittarius each time. But although the Moon does pass through Sagittarius once each month in every year, it is not always in a position to occult specific areas each time, due to the "slant", shall we say, of its orbit relative to that of the Earth and galaxy, as the Earth travels around the Sun. Therefore this writer says it is only once in nineteen years, for a period of two years, that astronomers can make use of the Moon's occulting of radio spots in — or through — Sagittarius. We are now in that two-year period, beginning last fall and continuing until 1970, in which the Moon's occultations of radio sources from the center of the galaxy can be studied by radio telescopes.

Our zodiac lies about half way between the center of the galaxy and its edge, — closer to the edge than the center. The article quotes the figures of 25,000 light years and 30,000 light years respectively. Sagittarius is on the side toward the center, as we have noted, so that when we look toward Sagittarius we are looking directly toward the center, which however is far away behind Sagittarius in distant space. Scorpio is also on the side of the center, as a celestial globe will show, but does not lie so directly in the line of the center as viewed from Earth. Gemini, opposite Sagittarius, looks toward the outer side of the galaxy. If the student will look at a celestial globe, running his finger along the ecliptic he will find Sagittarius and Scorpio in the Milky Way, and then, running his finger on around the ecliptic, he will again find Gemini in the Milky Way. Our Milky Way Galaxy is undoubtedly a spiral nebula of the "open" type.

The other constellations of the zodiac

do not show on the Milky Way, because they are not on direct line with the center of the galaxy as Scorpio and Sagittarius are. There are two arms of the spiral where Scorpio and Sagittarius touch the Milky Way or seem to touch it. These can be seen on any celestial globe which shows the Milky Way.

On January 25, 1968, early in the morning, the Moon occulted the red star Antares which is in the constellation Scorpio, although it is listed astrologically as Sagittarius 8. According to Eastern Standard Time, as seen from Washington, D. C., the lower bright edge of the Moon hid Antares at 4:49 A.M. It reappeared from behind the dark lunar edge at 5:12 A.M., EST. Students who are interested in astrological research may insert this data into the charts of infants born at the time of the occultation, and hold them for future reference. The occultation lasted for just 23 minutes. In the matter of twins, for example, it would be possible for one to be born under the occultation and the other not. Here is an effect which lasts only a little while, and may therefore pinpoint special influences in the chart.

It used to be thought that our Milky Way Galaxy was different from most other galaxies in that its center was dark instead of being filled with bright stars and nebulae; but it is now considered certain that the dark gulf between Sagittarius and the center consists of dust clouds, as noted, and that behind this curtain of dust the center is a globular mass of brilliant giant suns of every description. These were glimpsed by astronomers some years ago, when a special research group went down below the equator at a propitious time to see if they could discern anything behind the curtain of dust. They were fortunate in getting a glimpse and came back to report that our galaxy, too, like those which are observed around us, has an extremely brilliant center. Our Milky Way Galaxy, incidentally, is thought to be one of the largest in our part of the universe.

What we call the Milky Way is the central disc of the galaxy, which astronomers describe as "lens shaped"; that is, it is roundish in the middle and tapers off toward the ends and sides. Our solar system and zodiac are then in the outer rim.

To make this a bit clearer let us use a homely illustration which is not completely accurate but has the advantage of being vivid and understandable. Call the zodiac and solar system, with the sun in the middle, a fried egg; we may then call the plane of the galaxy the platter. But the "fried egg" does NOT lie flat on the platter. No, it stands on edge, slanting, making an angle of 62 degrees with the platter. Astronomers express this by saying that the plane of the ecliptic makes an angle of 62 degrees with the plane of the galaxy. The egg is not ON the surface of the galaxy, but stands *within* it, and the constellation Sagittarius is on the side toward the center of the galaxy. Across on the other side of the fried egg is the constellation Gemini, which looks out in the opposite

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.

TWO names only are usually 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, Birthplace, 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.

direction toward the edge of the galaxy.

Around the upper rim of the fried egg are the constellations Cancer, Leo, Virgo, and Libra. The North Pole of the galaxy lies in Right Ascension 12 hours 40 minutes (almost 13 hours) and Declination 28 degrees North. Consulting the celestial globe we find that this point is high in the constellation Coma Berenice, just north of the constellation Virgo of the zodiac. Like our own North Pole, the galactic pole is merely a mathematical convention. It is just a point in space, but it is the North Pole of the Milky Way.

Around the lower rim of the fried egg are, of course, the other crystallizations of the natural zodiac—Capricorn, Aquarius, Pisces, Aries, and Taurus.

To picture our world in this galaxy, we must realize that virtually all of the stars and other celestial objects which we can see with the naked eye — there are a few exceptions — belong to our own Milky Way Galaxy, and still less than that, to our particular neighborhood of the Milky Way Galaxy. When we look from our place at one side of our galaxy we look straight across the disc, where the stars seem to be thickest. Actually, they are not much thicker there than above and below, but we see through their massed light, which therefore looks "milky".

George Gamow ("One, Two, Three Infinity") describes this vividly: "Looking in the direction of the Milky Way it is as though we are looking through a deep forest where the branches of numerous trees overlap each other, forming a continuous background, whereas in other directions we see patches of the empty space between the stars, as we would see the patches of blue sky through the foliage overhead."

The various galaxies seem to be traveling in companies, and these companies are called super-galaxies. Our Milky Way also has its companion galaxies. All of the galaxies are in motion, and our solar system and zodiac are moving around the center of our Milky Way

Galaxy in a cycle which astronomers at present calculate as 200,000,000 (two hundred million) years to one revolution. Astronomers and geologists are not yet completely satisfied that they have found the true age of our solar system; but it is interesting to think that the various Epochs for our Earth Period have evidently taken place in different spots in the universe as the galaxy and its parts revolved in space. Doubtless this changing environment had much to do with the evolution of the human race, and other races, for all of these cosmic objects are really the outward or physical manifestation of spiritual intelligences which have guided our career from the early beginnings of time as we know it.

We have said that virtually all of what we see with the naked eye belongs only to our own neighborhood of the Milky Way Galaxy, with a few exceptions. We may mention of these the two Magellanic Clouds, large and small, visible in the Southern Hemisphere. These are termed by astronomers "the stepping-stone to the universe." They attend upon our own Galaxy, and are located so close to the Milky Way that they are easily studied, especially as they are not much obscured by cosmic dust. On a dark night the Clouds look like pieces of the Milky Way that have fallen away. They are said to be "of near-galactic size." In our local group of 17 galaxies, these Clouds are thought to be satellites of our own stellar system.

It is of course to be expected that Australian astronomers would lead the way in exploring these Clouds, and they have reported that a "considerable fraction of the total mass of each Cloud is in the form of free inter-stellar hydrogen, indicating an adequate supply of interstellar gas for star formation." They report further that both Clouds are rotating, "an apparent requisite for stellar evolution."

Great telescopes are now looking out at the sky from observatories in the Southern Hemisphere, including the

Chilean Andes, and much new information comes from these observatories.

As for the life which evolves in this evolving universe, many astrophysicists and biologists concede that life may be present in every part of space, everywhere, ready to start evolving, and that it may also travel from one part of the universe to another, perhaps wafted on light waves or other types of radiation. Occultists have not committed themselves either to one theory or another of the evolution of the universe—the “Big Bang” or the “Steady State”, but think a modification of both is necessary, as both include points of view which are needed for a complete understanding.

Magnetic Field of the Galaxy

Some years ago (1965) in an article in *The Scientific American*, authors Glen Berge and George Seielstad wrote: “Astronomers have recently begun to suspect that large-scale magnetic fields play a major role in determining the structure and evolution of galaxies. Although these fields are exceedingly weak by terrestrial standards, their presence may explain how the arms of a spiral galaxy such as our own can remain extended in space through billions of years while the galaxy as a whole makes many revolutions — perhaps 50 in the ten billion years since it was formed . . . Following clues first provided more than a decade ago by optical telescopes, radio telescopes have recently traced out a highly oriented magnetic field in our galactic neighborhood that may provide the ‘backbone’ of the spiral arms in which the Sun and its planets are embedded.”

The authors say further: “The Sun is situated about 30,000 light years from the center of a galaxy that has a radius of some 50,000 light years . . . Our galaxy appears to be a fairly typical open spiral with arms that curve gently outward from the nucleus and make two or three turns before they trail off into intergalactic space.”

Opinions vary as to the life span of both our solar system and our galaxy. Some give 13 billion years for the galaxy, 10 billion for the solar system, 6 billion (or more) for Earth, and 250 million years for one revolution of our system around the center of the galaxy. (All such figures are approximations.) The theory that the magnetic field holds the spiral arms in place has also been modified very recently, for this new branch of astronomy using radio-telescopes is still receiving much fresh data which has to be analyzed and worked in with the old.

W. W. BIBLE STUDY

(Continued from page 404)

ing of Paul, the great biblical metaphysician.

“Behold, I make all things new,” declared the Christ. When we are worthy to be freed from past karmic bonds, we contact the Law of Liberation. The choice is then ours, to reject or to accept, to remain under bondage or to be free. All biblical healings were so ordained by the worthiness of the recipient.

“The soul’s faith of today crystallize into the body’s ailments of tomorrow. Spirit is always the builder of the body. The miracles of the Master’s healings are only for those who have ears to hear and eyes to see.” Thus wrote the great Paracelsus.

Impediment of speech follows upon a misuse of the sacred life force. An injury or loss of the tongue is a consequence of blasphemy, the injury of others through gossip, or the betrayal of a sacred trust. Other illustrations of the Law may be observed in the loss of fingers, as the karmic result of unfair and dishonest practices; loss of hands as a result of committing wanton destruction, as frequently occurs in wars; loss of feet, resulting from walking the paths of wrong-doing, and leading others therein.

(Continued)



The Children of Virgo, 1968

Birthdays: August 23 to September 23

WITH the approaching end of summer, the Sun enters Virgo, the mental-earth, sixth house sign. This sign is ruled by the planet Mercury, and is definitely intellectual. Those born under its influence are generally alert, shrewd, analytical, and capable of absorbing knowledge readily, particularly in relation to the crafts. Theories, speculations, and pursuits requiring imagination rarely interest them deeply. They usually prefer to apply the mental faculties to self-improvement and the attaining of perfection in personal and mundane affairs rather than in what appeals only to the Spirit.

Virgos as a rule make singularly capable workers, for they are faithful, exceedingly methodical, and have much adroitness. Work is viewed in an unemotional, scientific manner, and all phases mastered in painstaking detail. Bowing readily to authority, they may be servile with superiors, while officious, masterful, and exacting with subordinates. Thus they are valued by their employers, but sometimes disliked by those who work for or with them.

Allowing themselves to be dominated almost entirely by intellect, these na-

tives can be cynical, critical, and skeptical of anything not scientifically demonstrable. Unless they cultivate humaneness and tolerance, Virgos risk becoming narrow-minded and bigoted.

Health — good or bad — is a favorite interest of the quiet, retiring, and modest Virgos. They usually take good care of their bodies and often acquire a wealth of knowledge related to remedies and hygiene. Although they can become fadistic and finical, they ordinarily show much practicality and admirable control of the appetites. Convinced that controlled passions are conducive to their greatest good, they cling to the ideal of purity. This, coupled with a love for service and self-improvement, is wonderfully conducive to the spiritual unfoldment of Virgo people.

As the Sun enters Virgo on August 23 and lasting all the solar month, Venus and Mercury are in conjunction — in Virgo until September 2, and then in Libra. This aspect points toward a cheerful, good-natured disposition and a desire for society. There is ability for music and poetry, too, and this is accentuated while the planets are in the Venus-ruled Libra.

To the above conjunction is added the influence of the beneficent Jupiter from

August 23 to 26. Thus the mentality takes on the qualities of optimism, versatility, and breadth. These natives are successful in law or literature and respected for their honesty and sincerity.

From August 25 to September 1 the sextile of Mercury to Neptune gives a mind peculiarly adapted to the occult art. There is a natural understanding of the superphysical and acceptance of it.

Another aspect affecting the mentality is the conjunction of Mercury and Uranus from August 27 to September 4. This gives originality and independence to the mind, with a pioneering, inventive tendency. The ideas and ideals are lofty and progressive, and many friends are attracted.

From August 29 to September 16 the Sun and Jupiter are in conjunction, a planetary pattern which indicates health, wealth, and happiness. The nature is jovial and optimistic, kindly and helpful. Having clear heads, good judgment, and executive ability, these natives are well fitted to help others. They shine particularly in government work.

Saturn and Mars are in trine aspect from September 3 to 22, giving a determined and energetic nature capable of intense and sustained action and of obtaining unusual results thereby. They often rise to prominent positions and are esteemed because of their ability, but they need to cultivate more kindness of nature. Health is favored.

From September 3 to 23 Mars squares Neptune, a stellar pattern which requires practice in refinement, poise, and self-control in both speech and action for its transmutation. All negative psychic influences should be avoided.

A splendid spiritual influence is in effect from September 4 to 23: Uranus sextile Neptune. This gives an inclination toward the occult or mystical side of life, and if either planet is in the 10th house, there will be at least local leadership in these fields. There is apt to be direct touch with inhabitants of the spiritual world, and dreams and visions of a prophetic nature are quite probable. The intuition is extremely strong,

and these natives can not only dream dreams but bring their dreams into concrete manifestation.

The Sun sextiles Neptune from September 9 to 23, another stellar pattern indicating interest and ability in the occult. The higher life is usually approached from the intellectual standpoint, however, so that these natives should cultivate the devotional side of their natures as well as the intellectual.

From September 15 to 23 Mercury opposes Saturn, pointing toward the need for these natives to cultivate happiness, optimism, and unselfishness, along with truthfulness and frankness. An understanding of the occult will be of great help here.

The Sun conjuncts Uranus from September 14 to 23, suggesting the need to cultivate poise, self-control, and reliability. Proper respect for convention, too, as well as acceptance of personal restraint, is needed.

From September 17 to 23 Venus opposes Saturn, and Jupiter sextiles Neptune. Here are rather opposing forces in the nature, so that these natives should strive to work with the spiritual influence of the sextile so that a tendency toward jealousy and stinginess may be overcome. The personal self must eventually give way to the higher or impersonal self.

Mercury sextiles Mars from September 18 to 23, giving a keen, sharp, and resourceful mind. The native is enthusiastic over propositions he undertakes and can enthuse others over them, too. There is a liking for debate and argument, wit tinged with sarcasm, and a remarkable dexterity. This aspect is a great aid to success in any field, but particularly in literature and the mechanical arts.

From September 21 to 23 Venus and Mars are in sextile aspect, pointing toward an ambitious, aspiring, and adventuresome nature, amorous and fond of sports and pleasures. There is excellent earning capacity, but also a tendency toward too free spending. An early or hasty marriage is probable.

Readings for Subscribers' Children

RUPERT H.

Born November 2, 1967, 6:31 P.M.

Latitude 53 N., Longitude 3 W.

Signs on cusps of houses:

ASC, Gemini .7.47	4th, Leo2.00
2nd, Gemini .28.00	5th, Leo27.00
3rd, Cancer .14.00	6th, Libra8
Virgo int. in ..5th	Scorpio int. in 6th

Positions of planets:

Part of F ...15.45	Gemini1st
Jupiter2.08	Virgo5th
Pluto22.00	Virgo5th
Venus23.13	Virgo5th
Uranus27.29	Virgo5th
Dragon's T. 27.11	Libra6th
Mercury ...7.06R	Scorpio6th
Sun9.39	Scorpio6th
Moon17.17	Scorpio6th
Neptune23.37	Scorpio6th
Mars7.54	Capricorn8th
Saturn6.49R	Aries11th

The most prominent features of this chart are the groupings of planets in the signs Virgo and Scorpio, 5th and 6th houses, showing a strong concentration of force and activities in these signs and houses.

Mercury, Sun, Moon, and Neptune are in Scorpio intercepted in the 6th, thus the individuality, personality, and mentality are all strongly imbued with the characteristics of the fixed-water sign Scorpio, a strong will, strong emotions, energy. The Sun and Moon are in conjunction (7.28 degrees), and the solar orb also conjuncts Mercury (2.33 degrees), sextiles Mars and Jupiter; the Moon conjuncts Neptune and sextiles Venus and Pluto. This boy has tremendous energy which must have an outlet somewhere or somehow, so that his early training will be most important. He has splendid constructive and

executive abilities, is determined, courageous, and ready to stand up for what he thinks is right — especially in behalf of others. At the same time he is singularly amenable to kindness, and inclined to sacrifice himself for the good of others, or for a cause which he has espoused. Rupert has a very friendly, jovial side to his nature, too, along with a readiness to cheer and help others. There is a strong fruitful imagination, oratorical ability, and a love for music and art, as well as a deep interest in the occult.

While the close proximity of the Sun to Mercury (combust, in fact), tends to lessen the power of Mercury, its sextile to Mars and Jupiter adds keenness, energy, and ingenuity to the mentality, along with versatility and breadth. There is a strong material trend to the mind, but fortunately also considerable interest in and understanding of the spiritual side of life. Gemini on the ASC adds to the flexibility and versatility of the mind and nature.

Pluto, Venus, and Uranus are in conjunction in Virgo, and sextile Neptune, a strong configuration which points toward sympathy for the sick, a scientific and mechanical mind, a strong intuitional faculty, and a tendency toward prophetic dreams and visions. There is considerable magnetic healing power, also.

Saturn in Aries in the 11th square to Mars in Capricorn in the 8th, suggests that Kevil will need to transmute a tendency toward selfishness and vindictiveness, particularly where older people are concerned. A special effort to be kindly and helpful to older people, no matter how they may treat him, will bring this boy valuable soul growth and progress on the Path.

As a chemist, physician, or literary critic Kevil has natural ability to give excellent service.

MARY D. C.

Born June 25, 1957, 3:23 A.M.

Latitude 42 N., Longitude 88 W.

Signs on cusps of houses:

ASC, Gemini 19.45 4th, Leo24.00
 2nd, Cancer ..11.00 5th, Virgo ..26.00
 3rd Leo0.00 6th, Scorpio ..8.00
 Libra intercepted in 5th

Positions of planets:

Mercury23.02	Gemini1st
Sun3.33	Cancer1st
Venus23.38	Cancer2nd
Mars2.27	Leo3rd
Uranus5.13	Leo3rd
Pluto28.36	Leo4th
Jupiter23.5	Virgo4th
Neptune .. 29.54R	Libra5th
Dragon's H. 17.24	Scorpio6th
Saturn9.21R	Sagittarius ...6th
Part of F. ...17.30	Taurus12th
Moon1.18	Gemini12th

With Sun and two planets in cardinal signs, the Moon and three planets in common signs, three planets in fixed signs, and common and fixed signs on the angles, this child's nature leans considerably toward flexibility, so that she should be encouraged to cultivate stability and independence. Since only one planet is in earthy signs, and all planets except the Moon are under the horizon, she is apt to be much more interested in things pertaining to the inner, spiritual life than in the outer, material side of life.

To help balance her flexibility there is the tenacity of the Sun in Cancer in the 1st house, sextile Pluto, trine Neptune. This configuration also makes Mary basically emotional, cautious, retiring, conscientious and fond of change. She is strongly interested in the occult, as well as in music and poetry, and should by all means be encouraged in these studies.

The Moon in Gemini in the 12th sex-

tiles Mars and Uranus (in Leo), squares Pluto, opposes Saturn. This configuration, added to the Gemini ASC, points toward a wide-awake intellect, fond of literature and science, resourceful, broad, liberal, and progressive. Hence Mary will be attracted to literary occupations, particularly to reporting where she may flit from one subject to another as required by her restless mind. She has a love for travel and a desire to be in positions where she will meet many people.

However, the 12th house position of the lunar orb and its opposition to Saturn, bring limitations. She should be careful to take proper exercise in fresh air, and not to tax her physical strength too much. She has an original, independent, intuitive, and imaginative mind, which will serve her well in literary work, but she should strive to transmute a tendency toward selfishness and lack of consideration for others at times. Mercury is also in Gemini, which it rules, in the 1st and in conjunction with the ASC, accentuating the mental, flexible side of Mary's nature. She is apt to be ready to investigate anything new, but should try to practice decisive thinking and acting, avoiding vacillation and wavering in making her choices and decisions.

Saturn in Sagittarius in the 6th house, trine Mars and Uranus, suggests a charitable and philanthropic disposition, with the ability to handle employees in a quiet, efficient manner. There is executive ability, too, as well as originality and inventiveness. However, the opposition of Saturn to Moon, as noted above, although not strong because of the wide orb of aspect, sounds a warning to keep a cheerful outlook on life, cultivate unselfishness, and stay out in fresh air as much as possible.

Properly guided, this little girl can make considerable spiritual progress in this incarnation through following "the gleam" of her highest ideals and using her talents in the service of humanity.

JEAN F. L.

Born January 3, 1963, 3:40 A.M.

Latitude 47 N., Longitude 9 E.

Signs on cusps of houses:

ASC, Scorpio 19.25	4th Pisces . . . 5.00
2nd, Sagit. . . 20.00	5th, Aries . . . 6.00
3rd, Cap. . . . 27.00	6th, Taurus . . 1.00

Positions of planets:

Venus 27.01	Scorpio 1st
Sun 12.01	Capricorn . . . 2nd
Saturn 10.13	Aquarius 3rd
Mercury 1.19	Aquarius 3rd
Dragon's Tail 0.34	Aquarius 3rd
Jupiter 9.29	Pisces 4th
Moon 13.08	Aries 5th
Mars 24.21	Leo 9th
Uranus 5.04R	Virgo 10th
Pluto 12.05R	Virgo 10th
Neptune 15.08	Scorpio 12th

This child's chart indicates that he has strong opposing forces working in his nature, so that his early training and environment is apt to be more important in determining the trend his life will take than is the case with most children.

The fixed-water sign Scorpio is rising, and in the 12th conjunct the ASC is the planet of spirituality, Neptune, sextiling Pluto and the Sun, trining Jupiter, but opposing Saturn. Here we find evidence of spiritual work done in past lives, and considerable progress made, but the opposition of Neptune to Saturn suggests that Jean did not always use his spiritual powers wisely and, therefore, in this life he has to learn the lesson of being above deception, treachery, and fraud. Opposing this spiritual "pull" of the favorable aspects to Neptune, is the presence of Venus in Scorpio in the 1st house, seven plus degrees from the ASC, and square to Mars in Leo in the 9th. Since there is no other aspect to Venus, unless Jean is carefully trained from his early years he may let his tendency to-

ward sensuality greatly deter him from following his high spiritual ideals.

Fortunately, there is help to be had from the Sun in the patient, persistent, unromantic, and ambitious sign Capricorn, sextile Jupiter, and trine Pluto and Uranus. Jupiter's beneficent influence brings friendliness, kindness, and sympathy to bear on the less outgoing Capricorn nature, and the influence of Uranus points toward intuition, originality, independence, and inventiveness. Jean has good earning capacity, organizing and executive ability, and his desire to be well thought of and have his abilities recognized, may be used by his parents to help guide him into a constructive, progressive life. He has a very sensitive side to his nature, too, and not only feels superphysical influences, but has empathy for the sick and suffering. He also has a liking for music, art, and literature and if taught to respond to the best from these cultural fields, the benefit to him will be inestimable.

The Moon in the cardinal-fire sign Aries in the 5th points toward a very independent type of mind, quick to resent interference from others. While Jean is ambitious and aggressive, he may lack forethought and thus meet with setbacks. However, he is not easily defeated, having the courage always to start again. Since the Moon sextiles Saturn, in the fixed sign Aquarius where it is well placed, there are such fine qualities to be drawn upon as self-reliance, system, thrift, tact, and diplomacy. Jean has a feeling of responsibility, too, and is trustworthy, patient, and persistent.

Uranus and Pluto in the 10th, in conjunction with the MC, trine the Sun, opposing Jupiter, could bring success, at times, in pioneer work of some kind — chemistry, diet, newspaper work, drugs. However, unless a tendency toward impulsiveness, insincerity, and extravagance (indicated by the opposition of Uranus to Jupiter) is overcome, there will likely be public discredit and disfavor.

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.

Artist, Salesman

PHILLIP A. C. — Born January 20, 1948, 5:45 A.M. Latitude 41 N., Longitude 74 W. The Sun in the last degree of Capricorn in the 1st house indicates for this native a basic nature that partakes of both the Saturn-ruled Capricorn and the Uranus-ruled Aquarius, making him ambitious, persistent, humanitarian, progressive. However, lack of aspects (except the square to the MC) indicates that the solar force will not be very strong in the nature. Mercury is in Aquarius in the 1st, trine Neptune but square the Moon in Taurus and opposition Pluto in Leo. The mentality is stable, progressive, and spiritually inclined, but exercises in memory would improve it. The Moon in Taurus in the 4th, squares Pluto as well as Mercury, but sextiles Venus (ruler of the Libra MC), and trines Mars and the ASC. This configuration adds stability to the nature and also indicates talent in music and art. Uranus and Saturn in sextile aspect from Gemini to Leo suggests mechanical ability. This native could use his natural talents well as a commercial artist, actor, salesman, demonstrator, or hospital worker. He has some writing ability, too.

Radio Emcee, Writer

ANNETT M. R. — Born September 1, 1946, 6 A.M. Latitude 38 N., Longitude 86 W. Here we find the Sun in Virgo in the 12th house in conjunction with the ASC (8 plus degrees), sextile the Moon in Scorpio in the 3rd, pointing toward an inner harmony and strength which make for accomplishment through one's own efforts and ability. Mercury in Leo in the 12th sextiles Uranus, Ve-

nus, and Jupiter, indicating a very fine mentality: broad, versatile, ingenious, intuitive, musical, and poetical. Splendid earning capacity is also indicated by this 2nd house configuration. Uranus and the Dragon's Head are in conjunction in Gemini in the 10th house, and besides the sextile to Mercury, it trines Venus and Jupiter (and Mars also if we can give a 7-degree orb in this case), a splendidly aspected Uranus. This native is well equipped to give a high type of humanitarian service — as a writer, radio or TV emcee, teacher or college official, or in a diplomatic or governmental post.

Salesman, Shipper

JOSE I. P. A. — Born November 7, 1947, 9:30 A.M., Latitude 43 N., Longitude 3 W. This native's chart shows all the planets above the horizon, pointing toward an objective life — an outer life of experiences dealing with physical existence. The Sun and Mercury are in conjunction (but not combust) in Scorpio in the 11th house, sextile the Moon in Virgo in the 9th (long journeys), square Saturn, Mars, and Pluto intercepted in Leo in the 8th. Thus, while he has considerable inner ability and strength, this native will also have lessons in unselfishness and control of temper to learn through friends. The Moon squares Venus and Jupiter in Sagittarius in the 12th, pointing toward further lessons in dealing uprightly with the opposite sex. Uranus in Gemini in the 7th sextile Saturn suggests mechanical ability, along with helpful partners. As a salesman of automobiles or automobile mechanic, transfer businessman, or shipper this native should be able to use his talents to good advantage.

Daily Thought and Guide

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

SUNDAY—SEPTEMBER 1

This first day of the month is likely to be a busy one. It should be easy to contact like-minded friends — those who worship with us and seek understanding of higher truths.

MONDAY—SEPTEMBER 2

On this pleasant day when the rays are very helpful, let us make the most of them. It will be easy to express consideration for those who need our interest and understanding.

TUESDAY—SEPTEMBER 3

Again the rays are good and the day is excellent for achievement and helpfulness for the needy. "Love is the fulfilling of the law."

WEDNESDAY—SEPTEMBER 4

On this very quiet day it is not advisable to plunge into new ventures, but duty well performed brings its own reward. "Act well at the moment and you have performed good action to all eternity."—*Lavater*.

THURSDAY—SEPTEMBER 5

Head and heart are united today; this helps us in right action when unforeseen events come to us. "O Lord, that lends me life, lend me a heart replete with thoughtfulness."—*Shakespeare*.

FRIDAY—SEPTEMBER 6

Today we may find time to search within ourselves, examining our reasons and motives. In this way we may be able to improve our characters and also find better ways of doing things.

SATURDAY—SEPTEMBER 7

On this day of many mixed vibrations rest and recreation are in order. However, spiritual aspects will make it easy

to solve questions of deep spiritual nature also.

SUNDAY—SEPTEMBER 8

This is a day for sincere meditation. Diverse aspects make it an interesting Sunday. "No good thing will He withhold from them that walk uprightly."—*Psalms* 84.

MONDAY—SEPTEMBER 9

This may be a busy Monday for Mars is sending active rays. Let us use this power thoughtfully for the needs of the sick and the helpless.

TUESDAY—SEPTEMBER 10

Again we find this to be a day when we may push forward in different accomplishments. Let us manifest our gratitude to our Creator for the many blessings He bestows on mankind.

WEDNESDAY—SEPTEMBER 11

A fine day with many good rays. Much may be achieved today. Let us share our good things with others; in this way all will receive the greatest blessings.

THURSDAY—SEPTEMBER 12

On this beautiful day the planets in their orb make for much action. As we follow this urge may we do it all to the Glory of God and know that His love surrounds us.

FRIDAY—SEPTEMBER 13

With head and heart united, coupled with Jupiter, this should be a happy day, and real effective work can be done. Let us remember that it is more blessed to give than to receive.

SATURDAY—SEPTEMBER 14

Another busy day when rays are active and mixed. It will be well to perform our duties quickly and then rest from toil and care.

SUNDAY—SEPTEMBER 15

On this fine Sunday let us re-affirm our faith in our Creator, and "May the Son of God dwell in our hearts."

MONDAY—SEPTEMBER 16

On this quiet Monday we look for comfort and we may find it. It is a good day to pay attention to some self-discipline which is so good for building character.

TUESDAY—SEPTEMBER 17

Today the rays are active and mixed. Perplexing conditions may arise, but whatever problems may face us, meditation and concentration will help us do what is right.

WEDNESDAY—SEPTEMBER 18

On this day we are very eager to do our share of the work to be done. Let us try to understand our fellowman rightly and do our work well.

THURSDAY—SEPTEMBER 19

Mixed aspects favor activity on this day of Jupiter. Let us try to overcome any irritation that may arise. "Do your duty, that is best, leave unto the Lord the rest."

FRIDAY—SEPTEMBER 20

Now we receive mixed rays from the planets. Let us remember to use temperance in all things. All we may accomplish today can be done with a thought for the deeper things in life.

SATURDAY—SEPTEMBER 21

A quiet day when we can acquire calmness and poise. Let us recall our activities of the past week and learn our lessons from them.

SUNDAY—SEPTEMBER 22

May we dedicate this fine day of the Sun to worship and relaxation, and remember that love is the fulfilling of the law. We know that "His love surrounds us."

MONDAY—SEPTEMBER 23

A quiet Monday with mixed vibra-

tions. Let us pay attention to our own self-discipline and gain valuable self-control.

TUESDAY—SEPTEMBER 24

Mixed vibrations make this an active day. Saturn is strong and we must be calm and poised. Let us try and not become dejected for we know that "God is mindful of His Own."

WEDNESDAY—SEPTEMBER 25

This is apt to be another quiet day, and thoughtful consideration for others is easy. Let us lend a helping hand wherever it is needed, thus making the brotherhood of man a reality.

THURSDAY—SEPTEMBER 26

This Jupiter day should be a busy one. The planets are giving unbounded energy, and it would be well to use this for the many good causes that need attention.

FRIDAY—SEPTEMBER 27

This will be a pleasant day, good for cultivating head as well as heart, and this can give us understanding for all who are in need of kind attention.

SATURDAY—SEPTEMBER 28

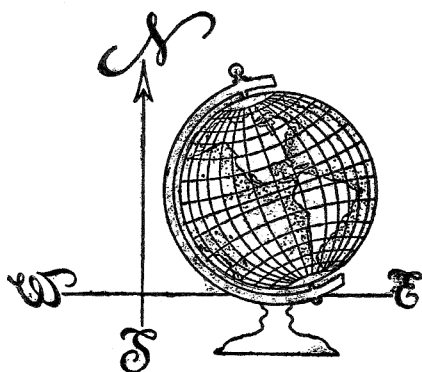
Today, after a busy week, we should be able to let up a little on the grind. Music, good books, nature — all will make this an enjoyable day.

SUNDAY—SEPTEMBER 29

Today it may be best to be still and look within for guidance. We will find that helping others will win and we can say with Thoreau: "It is the tranquil people who accomplish much."

MONDAY—SEPTEMBER 30

Today we silently evaluate our past experiences leaving the good month of September gratefully and go forward in faith and trust to new experiences.



MONTHLY

News
INTERPRETED

Light, Magnetism, and the Ionosphere

During the past decade research has provided a fairly detailed understanding of the production of the daytime ionosphere, but the reasons for the persistence of the nighttime ionosphere have not been clear. Without a nocturnal source of ionizing radiation, the ionosphere would be expected to disappear within an hour or so after sunset.

Nevertheless, it persists with a density of several percent of the daytime strength throughout the night. Now scientists at NRL have settled the origin of the nighttime ionosphere to the extent that the responsible radiations, Lyman beta and singly ionized helium, from the sun have been observed directly.

The successful search for nocturnal radiation was made by a set of very sensitive extreme ultraviolet detectors flown on an Aerobee rocket. The ultraviolet Lyman beta was found responsible for the ionosphere in one layer, the helium radiation in another, by Dr. C. Y. Johnson and four co-workers.—*Science News*, May, 1968.

The above news item again concerns what the occultist of the nineteenth and earlier twentieth century has termed the "Light Ether". Students of occult writings will recall reading that the ethers are charged with sunlight during the day, and that sleep is most beneficial in the first half of the night because the atmosphere still retains some of the solar charge. Modern physicists have taken note of this phenomenon, which is no longer occult, and discuss the problems presented by the continuance of the solar charge in the "light ether" during much of the night. Further notes on light and

magnetism include the following interesting comments:

Knowledge of magnetism stretches back unknowable years; the first application of the seemingly strange natural magnets or lodestones as compass needles occurred at least 10 centuries ago. Our lives are shaped in many ways by application of the force, from the generation of power to the recreation of sound.

The real breakthrough in magnetism came in the 19th century, with the discovery of its connection with electricity. Magnetic forces are created by moving electric charges, whether the flow of current through a conductor, or the spinning of electrons in the atoms of a permanent magnet. Although some theorists contend that there is such a thing as a free magnetic charge, corresponding to an electric charge, no such phenomenon has yet been observed by scientists.

Because it is so intimately connected with basic physical phenomena — light itself is a combination of electric and magnetic forces — magnetism is useful both in laboratory and in myriad practical applications.

The earth's ionosphere, which makes long distance short wave radio possible, exists because of sunlight. Solar radiation at the high energy end of the spectrum disassociates atoms of the upper atmosphere into ions and electrons.

In the daytime the ionosphere tends to be deep and the density of free electrons is high. At night some recombination takes place, and the density of free electrons goes down.

Studies of how these things happen, and how quickly, are aided by solar eclipses, which darken a small portion of the atmosphere for short periods. A partial eclipse conveniently occurred at Palo Alto, Calif., on May 9, 1967, for radar observers at Stanford University.

Radar beams probed the atmosphere over Palo Alto on several days before and after the eclipse, as well as the eclipse day itself. The eclipse came just at dawn, and inves-

tigators were particularly interested in how it delayed the night-to-day transition.

The eclipse held down electron density and electron-to-ion temperature ratio, Dr. M. J. Baron reports. Recovery was slow: Effects of the eclipse could be detected up to three hours after it was over.

—*Science News*, April, 1968

The observations of etheric forces by occultists find in modern times some degree of corroboration from physics and astronomy. The "solar ether" would seem to include, in some small degree at least, the free electrons and ions of the earth's ionosphere.

Astrologers have sometimes studied the effects of eclipses in the horoscopes for children born at that time. Here we note the effects, physically observed, in that the eclipse held down electron density and the electron-to-ion temperature ratio. Astronomers were still able to observe the effects of the eclipse three hours after it was over.

Battles over Genetic Theory

It is typical of the American Chemical Society that the most significant controversy at its convention in San Francisco last week should have contributions from a botanist, a physicist, a molecular biologist and a physician. Chemists have to speak all kinds of scientific languages.

The subject, disarmingly presented under the patronage of the society's division of the history of chemistry, was the role of the chemical DNA in the process of heredity. At issue was the question of man's ability to control physical characteristics of his offspring. The issue is one of intensifying scientific controversy; the Federation of American Scientists expects to launch a major confrontation on it at the next meeting of The American Association for the Advancement of Science.

The great advances in molecular biology in the last 15 years, often described as the DNA revolution, come largely from the discovery by two geneticists, Drs. James D. Watson and Francis Crick, that the DNA molecule, thought to be the carrier of genetic information, has a rather simple shape—a pair of strands twined together in a helix, something like a spiral staircase.

From this model, it was found possible within a few years to describe how information is encoded in the DNA molecule by combinations of four different kinds of subunits called nucleotides. The basis for all characteristics of all living matter, it is claimed, is contained in the arrangement of nucleotides in the standard DNA molecule.

The location of genetic information in a specific molecule had led to wide speculation on the possibility of influencing heredity by chemically manipulating DNA. The more flamboyant proponents of this procedure have seen in DNA the means of controlling sex and physical characteristics, preventing allergy, obesity or arthritis and eliminating cancer and diabetes. Such genetic engineering has even been suggested as means of increasing intelligence and preventing mental illness. These predictions, Dr. Barry Commoner of Washington University in St. Louis complained to a packed ACS audience, are a cruel mockery of human hopes.

The fact is, says Dr. Commoner, who is chairman of the botany department at Washington University, DNA is not the exclusive means of determining how an offspring cell will develop. In the transfer of information to daughter cells, things can happen that alter or influence what information is received, he says, citing experiments carried out by himself and other investigators.

If the influence of DNA on inheritances is only partial, being affected by exterior conditions, then any attempt to control inheritance by chemical manipulation of DNA is likely to yield unexpected and uncontrollable results, says Dr. Commoner.

"An attempt to produce a genius," he warns, "is more likely to create a monster."

Dr. Commoner's warning about overoptimistic applications of the genetic code theory were backed up by a physician, Dr. Samuel P. Bessman of the University of Maryland Medical School.

Dr. Bessman complained that, on the basis of sketchy evidence, and reasoning from genetic theory, it was erroneously concluded that the disease, phenylketonuria (PKU) could be avoided by special diet. Public enthusiasm for the idea was so great that some three dozen states passed laws specifying specific treatment, despite lack of evidence that it does any good.

Stanford University physicist, Dr. Howard H. Pattee, devoted himself to the area still presenting the most serious problems to biologists: How the information encoded on DNA is transferred to cell enzymes which then control the growth of new cells.

Dr. Pattee says the simple mechanistic models of enzyme operation can't explain the speed and reliability of information transfer. A complete explanation, he said, will have to take into account quantum mechanics—the fact that all matter, when it gets down to the submolecular level, does not just sit still, but has a wave motion that significantly affects its behavior.

—*Science News*, April, 1968

Science fiction writers have been having great fun with stories of "genetic engineering". There is no doubt whatever that genetic engineering is coming;

but as the above item shows, it has not yet arrived.

The "wave motion" which is found in matter at the submolecular level comes under the heading of the "ethers" known to occult science; particularly the Chemical Ether. It is here that etheric forces and matter interact.

As the human mind takes cognizance of these submolecular conditions and forces the so-called "senses" will develop accordingly. An analogy of this development is found in the way people can work on small objects when wearing glasses which magnify the object, for example in watch-making or gem-cutting, or in inscribing the Bible in print so tiny that the eye cannot read what is there. It is amazing that the sense of touch can respond to what the eye can see only by great magnification. (We are not referring to the modern photographic techniques by which type can be reduced to any small size, and also "blown up" to a readable size. We are referring to work that used to be done by hand.)

Similarly, as the mind begins to visualize the structure of atoms and molecules, the senses will begin to lay hold of the new phenomena, and in a few generations children will be born with so-called "etheric sight" already present.

To Quake or not to Quake, That Is The Question

There hasn't been such controversy over a hole in the ground since the Mohole. This time the center of attraction is nothing but a garbage disposal. It was drilled by the Army at its Rocky Mountain Arsenal near Denver, Colo., in 1961, a 12,000-foot-deep well to be used for getting rid of poisonous chemical wastes.

The well opens into a vast reservoir, apparently some 20 miles long and extending eight miles below the surface. The reservoir is not an empty cavern; it is filled with crack-ridden rock of about the density of a subterranean oil field. The Army's fluid would simply seep and ooze its way down and outward, filling the myriad fissures as it went.

The pumping began in March, 1962. The next month, after only 4 million gallons had been poured down, Denver had its first

earthquake in 80 years. More material was pumped down the well, reaching a peak in May, and the number of quakes increased to a peak one month later. The pumping declined toward the end of the year, then rose again to another high in March of 1963. The quakes followed in phase.

When the pumping rate fell off late in 1963, then rose again toward the end of 1964, finally climbing to new heights the following summer, the earth tremors obligingly waned and waxed.

Until then, says Dr. Maurice Major of the Colorado School of Mines in Golden, no one had made a connection between the quakes and the Army's hole in the ground. Eventually, however, a consulting engineer named David Evans noticed the strange correlation, drew a graph of his findings on a piece of cardboard and took it down to the local television station. The Army stopped pumping in February, 1966, after 163 million gallons of liquid had been laid away in the ground.

Here was a nice, open-and-shut case. There was even a ready-made geological principle, called Hubbert-Rubey effect, to explain it. The Army's fluid had apparently just worked its way among the rocks at the foot of the well, moving them apart enough that they could slide about. The correlation between pumpings and quakings was so perfect, says Dr. Major, that the probability of its being due to coincidence was only two or three chances in 1,000.

When the pumping stopped, however, the quakes didn't. Hundreds of tremors have occurred since the Army stopped sending liquid down its well. The three most violent quakes since the incident began, in fact, have all taken place more than a year after the pumping was discontinued. These were so strong that they shook houses and broke windows — including Dr. Major's — more than 20 miles from their centers. Since December, tremors have been coming at the rate of about eight per month.

Where did the correlation go? For four years it was perfect; now it's nonexistent. "It's our chief embarrassment," Dr. Major says.

In the public eye, however, the well is still the front-runner as the candidate for guilt, largely because of those four incriminating years and partly because of the difficulty in establishing that Colorado has any pronounced natural seismic tendencies. The only quake records going back any length of time are "felt reports," as geologists call newspaper accounts and other subjective evidence. "If you take newspaper reports and try to make a map," Dr. Major says, "you come up with garbage."

The quakes center in a curved zone some 10 to 15 miles long and 4 miles wide, running directly beneath the arsenal. The zone is about six or seven miles below the surface, which means that it is shallow enough to pass through the reservoir.

On the other hand, there are an esti-

mated 90 other waste disposal wells around the country, and none of them have been accused of starting quakes. "This is a completely new thing," says Dr. Walter Baer, who is keeping track of the quake machinations for President Johnson's science adviser, Dr. Donald F. Hornig.

Dr. Hornig, together with the state of Colorado, the Army and the U. S. Geological Survey, is considering the possibility of trying to pump out the well in hopes that the rocks will settle back into a stable mass. But this idea has its violent opponents, including many area residents who fear what might happen if the Army meddles again with what it apparently failed to control in the past; also, it has been estimated that the well will return to equilibrium pressure (so that it is exerting no abnormal pressure on the rocks) by itself within 18 months.

"If pumping wastes into the well did indeed trigger the earthquakes, are we justified in saying we can now untrigger them?" asks Ruth B. Simon, a research associate at the School of Mines. "Might not pumping out what was put in during those years be effectively re-loading the gun and pulling the trigger again?"

—Jonathan Eberhart in *Science News*, May, 1968.

The general public reaction to pumping atomic wastes under ground, digging deep wells, removing oil in large quantities, and so on, is one of dismay. "Do those fellows really know what they are doing?" is the popular query. In California the pumping out of oil from under the Long Beach area is looked upon as very serious, and it is said, and data is produced in proof, that the city is sinking. Near Denver it is the disposal of poisonous chemical wastes in a deep well that has triggered public concern, since the operation was followed rhythmically by earthquakes. Now comes the underground hydrogen bomb blast in Nevada. Will this be followed by earthquakes?

Coincidence still has a very long arm, and it may be coincidence that earthquakes followed the digging of the well in Colorado. Astronomers know that the earth wobbles on its axis as it goes around the Sun, and since the continents on the globe's surface are not nailed down it is inevitable that when the tilting motion has reached a certain point anything loose enough will begin to slide.

This seems to happen in something like two thousand year cycles — the time, approximately, that it takes the precession of the equinox to move backward through one sign of the zodiac, counting each sign as 30 degrees. The precessional rate is about 1 degree for 72 years.

We note also that cosmic visitors, comets from out of space, if they approached close enough to Earth could cause earthquakes; and it is conceded by many astronomers that there is a clear correlation between the Moon's movements and earthquakes, and, as it may also be, a correlation between moonquakes and Earth's motions.

Longest Dead Sea Scroll Unrolled

The longest Dead Sea Scroll yet discovered — more than 28 feet long — has been unrolled and translated at the Hebrew University, Jerusalem. It treats four basic subjects: religious rules, festival sacrifices and offerings, descriptions of sizes and uses of temples, and statutes of the king.

The scroll, provisionally called the Temple Scroll, came into the hands of Hebrew scholars in the midst of last summer's Six Day's War — in a manner they will not discuss for fear of jeopardizing acquisition of further scrolls, reports Dr. Yigael Yadin in December's *The Biblical Archeologist*.

This latest acquisition is not yet available to the public, apparently, but we are interested to note that the new Scroll gives "descriptions of sizes and uses of temples". Scholars and historians have wondered if the Essenes, for example, had built a temple for their own use since they objected to the blood sacrifices of the great Temple at Jerusalem. This Scroll should throw light on all these points; whether the Essenes actually did allow sacrifices of animals, and so on. The accepted tradition has been that Essenes did not approve of animal sacrifices. Certainly there are many statements even in the Old Testament which show that the prophets were beginning to find blood offerings repulsive, just as the leading thinkers in Greece and Rome were turning away from all such practices.



BOOK REVIEWS

Literature Plays
Motion Pictures - Music

"A SEARCH FOR TRUTH"

A Search for Truth by Ruth Montgomery, William Morrow & Co., Inc., 125 Park Ave. So., New York City. \$4.95.

To most students of the occult this interesting and well-written book offers little that is new to them, but it will no doubt serve the good purpose of increasing general interest in the super-physical.

However, there is one chapter in particular which does offer information of an unusual type. It deals with healing and is titled "The Ancient Wisdom." The author tells us that there is a man living today who has healed thousands by the laying on of hands. However, "The method that he uses bears no relationship to faith-healing or prayer-healing. He calls it 'revitalizing the magnetic field,' and he asserts that by placing his fingers over nerve relay centers in the lower abdomen, a human energizing current is transmitted throughout the body."

The healer declares that there is a "protective ring of energy" around each planet which contains "all knowledge since the beginning of time." From this he receives the information which enables him to heal so-called "incurables". The power for healing, he says, comes from God, but he has an "over-developed magnetic field" in his own stomach "from which he transmits energy to those healed." He says further that "This was the commonly accepted practice of healing in the early church . . . it now sounds miraculous only because the knowledge has been lost through the ages."

"WHO CARES FOR ANIMALS?"

Who Cares for Animals? by Rose L'Amour, Vantage Press, New York City. \$3.00.

This appealing little volume of 98 pages is, as its title indicates, written in the interests of our younger brothers, the animals. We fully agree with these statements on the inside of the jacket:

"Drawing from biblical sources, the works of the world's most honored poets, writers, and thinkers, and her own experience and observations, Miss L'Amour presents a convincing argument for vegetarianism and animal humaneness. The horrors of the unnecessary slaughter of innocent animals . . . is dramatically portrayed . . . In this book she anticipates — and undeniably refutes — all the arguments for eating meat, the use of animal products in toiletries and perfumes, and the need for animals in medical research. She shows, for instance, how nuts and vegetables are rich in excellent, delicious protein; how the chemical laboratories have created synthetic substances equal to and possibly better than the animal materials now used in so many beauty products; and how the use of animals for what man would not subject his own species to is totally without justification. No reader will be untouched by this book; it is for everybody who delights in life. With a rare mixture of child-like delight and profound metaphysical understanding the author has been able to communicate her own intense love for all living things and her deep appreciation for the wonders of Nature."

Readers' QUESTIONS

Occult Viewpoint of Birth Control

Question:

I realize that we are supposed to be learning to conserve the creative force and transmute it into service and compassion. However, Mr. Heindel states in several different places in his works that any material obligations already contracted must be fulfilled completely before we have the right to attempt to take up an entirely spiritual life. If we have already contracted these obligations with people who are not yet interested in the spiritual life, and cannot afford to provide material for a dense vehicle for an incoming Ego, either financially or health-wise, every year or so, what should our attitude be? Also from an occult viewpoint, what may be some of the other effects of taking these pills on the endocrine system, other than the contraceptive one?

Answer:

As this question has come up several times recently, perhaps we should first give Max Heindel's statements covering the whole subject of birth control. In Volume 2 of *Questions and Answers*, pages 109-114, he discusses the matter thoroughly, and from his discussion we quote some salient statements:

"The matter of population is not governed entirely by individuals, or by man-made laws. The divine Hierarchs who guide our evolution arrange the matter as required for the highest good of all concerned, and the number of the population is in their hands rather than in our own. This does not mean that we cannot or should not exercise birth control to some degree as suggested by those

who are responsible for that movement. It is also true that one must help people where they are and not where they ought to be. The Rosicrucian teachings emphasize the fact that like attracts like, and therefore it is a duty upon the part of those who are well developed physically, morally, and mentally to provide an environment for as many incoming Spirits as their physical and financial circumstances will permit. This duty is still more binding upon those who are also spiritually developed, for a high spiritual entity cannot enter into physical existence through a vile parentage. But when a couple has reached the point where it is deemed either dangerous to the health of the mother to bear more children, or where the financial burden would be above their means, then they should live a life of continence.

"This naturally requires considerable spiritual advancement and self-control. There are few who are capable of living such a life . . . Therefore it may be necessary to teach these people birth control by scientific means. However, we submit that though they are unable to understand the reason why continence should be practiced, and unable to practice it because of lack of self-control, the spiritual teachings should be given repeatedly so that, as the steady drop wears the stone, in time the coming generations will learn to depend upon their own will power to accomplish the object of keeping their lower nature in check. Without this educational feature looking towards a spiritual emancipation, information concerning physical methods of limiting the birth rate in families that are overburdened is dangerous in the extreme."

In the *Cosmo-Conception* (page 471) we find these further statements: "If

the desire to live a celibate life comes to a person who holds marriage relations with another, the obligations of such relations are not to be forgotten. It would be very wrong, by practicing celibacy under such circumstances, to endeavor to escape from the *proper* performance of duty. As to what constitutes duty in regard to coition, however, there is a standard for aspirants to the higher life different from that of the ordinary man or woman.

"Most people regard marriage as sanctioning unlimited license for the gratification of sexual desire. In the eyes of statute law, perhaps it does, but no man-made law nor custom has any right to govern this matter. Occult science teaches that the sex-function should *never* be used for sense-gratification, but for propagation *only*. Therefore an aspirant to the higher life would be justified in refusing coition with the marriage partner unless the object were the begetting of a child, and then only if both parties were in perfect health — physically, morally, and mentally.

"Each person owns his or her own body, and is responsible to the Law of Consequence for any misuse resulting from the weak-willed abandonment of that body to another."

In *Freemasonry and Catholicism* Max Heindel explains clearly how it is in line with evolution that the spinal spirit fire be raised from the lower generative organs to the higher ones (brain and larynx). This can be done only by pure living and the use of one's faculties in constructive mental, emotional, and physical endeavor, including service to others.

Quoting from pages 76 and 77 of F & C: "At present man is dominated by the passion instilled by the Lucifer Spirits and sends one-half of his creative force *downward* from the light to gratify his senses. In his innermost soul he realizes that this is wrong, and hence he hides his creative instinct in shame and is outraged when it is dragged into

the light. This condition must be altered ere spiritual progress can be made . . . You must learn to turn your whole creative energy upward to be used under the direction of your intelligence entirely."

From these statements it is plain enough that the only real solution to this problem is *self-mastery*. The present widespread use of contraceptives to permit unlimited sexual license is dangerous, indeed, to say the least. It is well to remember that the destruction of Lemuria and Atlantis came about largely because the majority of the people at those times flagrantly abused the creative function. Is present humanity going to pursue the same course? Those who know the occult truths should do all they can to spread them. As Max Heindel indicated, the solution lies in education. Our young people should be educated in the real truths concerning sex. It is certainly a most vital matter, the base of human evolution.

Now to answer your questions more specifically: we should, of course, try to fulfill the obligations we have incurred with other people. However, as to what extent this should be applied in regard to sex is a matter for each individual to decide in the light of his or her own particular circumstances and nature. What would be best for one to do might not be best for another. Discrimination, judgment, and an impersonal view are all needed in making a wise decision. Prayer, too, can be of much help, especially when one is whole-heartedly aspiring.

As to "what may be some of the other effects" of taking the contraceptive pills, we can only point out that anything so contrary to Nature's laws must have some undesirable effects on the physical body. In fact, we believe some have already been reported by medical scientists. We should not forget, moreover, that the spiritual effects — including the mental, emotional, and moral — may be even more deplorable and dangerous than the physical effects.



Health in the News

SMOKING AND FETAL DAMAGE

A disturbing relationship between smoking and a mother's blood pressure in pregnancy emerges from a survey made by C. S. Russell, head of the Department of Obstetrics and Gynecology at Sheffield University. He estimates that about four babies in every 1,000 pregnancies dies as a result of the mother's smoking.

"The mothers with an overall blood pressure of 150/100 or more, who also smoked regularly, had an unsuccessful (abortion, still-birth, or neo-natal death) pregnancy outcome rate of 31 percent, compared with a rate of 14 percent for non-smokers in the same blood pressure group," Prof. Russell found.

"The harmful effect may be simple poisoning, possibly by carbon monoxide, and this hypothesis is supported by the finding that the surviving babies of the smokers appeared to have a growth deficiency to make up," he says. "Certainly the rates of weight gain and rate of head circumference gain in the weeks immediately after birth were significantly higher in the babies born to smokers than in the babies born to non-smokers."

"It is quite certain that smoking reduces the weight of the baby," says Prof. Russell. "It is not too difficult to imagine that smoking, by lowering baby weight, could endanger life." He puts the lethal factor at about four per 1,000 pregnancies.

Smoking also increases the risk of premature delivery between the 28th and 36th weeks of pregnancy for those women who had some vaginal bleeding in early pregnancy, he finds.

—*F. C. Livingstone in Science News*, March, 1968.

When modern women launched their campaign to achieve "equal rights" with men, they did not stop with seeking political and economic equality (we say "seeking", because neither has as yet

been achieved, except in part), but they decided that the pleasures men arrogated to themselves were also theirs for the taking. Since men were the dominant power, they felt, without perhaps really reasoning about it, their pleasures must also be the superior pleasures, which they denied to women on the basis of their inferiority as human beings. "Anything men can do we can do better!" (within biological limits), the suffragette generation declared.

They failed to realize that the restrictions put upon women's pleasures might have been the result of long centuries of experience, in which it had been observed that women could not indulge in certain pleasures, not because of any personal human inferiority, but because of the evil effect upon the race, specifically upon the unborn child.

This is no mere issue of personal vice or pleasure. Certainly women have the "right" to smoke. That is, if they do not care what happens to their children. But, when we look at the problem from the viewpoint of race karma, then we see not only the danger to the unborn child — with heart-ache for its mother, above all — but we realize that in her own next incarnation the mother who thus willfully smokes during pregnancy and damages her child, will have to pay the price, perhaps coming to birth under circumstances where she herself is born into a damaged body, or into a body

which becomes injured or damaged. "The mills of the gods grind slowly but they grind exceeding fine."

We may also mention in passing that pregnant women should not use barbiturate sleeping pills — babies are sometimes born with cataracts as a result of this.

DANGER OF PLASMA: HEPATITIS

Plasma is the cell-free, liquid part of blood. Whole plasma has had a controversial history since its introduction in World War II when it was used to revive and sustain the badly wounded. Subsequently hundreds of thousands of surplus units were distributed and used throughout the United States.

Pooling is the mixing together of large quantities of plasma, from the blood of many individuals; it is widely practiced both for economy and because it is thought such mixing will neutralize dangerous antibodies. Pooling has been done commercially since the early 1950's, and large quantities have also been produced by local hospital and other blood banks.

There are estimates that more than 300,000 units of pooled plasma are administered in the U.S. each year, primarily in the treatment of the severely burned or the severely injured. It is sometimes given as a nutritional supplement and in the treatment of coagulation and immune deficiencies, but there is little hard evidence to support its value in such uses.

Long ago it was shown that the use of plasma from large pools carried an unacceptable risk of transmitting hepatitis, presumably because of the presence of an unidentified virus. A major program of research failed to provide a practical solution until a report in the late 1940's suggested that the prolonged storage of whole, pooled plasma at room temperature killed the virus.

Now, however, a National Research Council subcommittee, which has been studying reports of hepatitis transmission via pooled blood plasma over more than 20 years, has reversed a 1958 guideline. That assumed plasma's comparative safety if it is treated with ultraviolet radiation following storage in the liquid state for six months at 30-32 degrees C.

The NRC committee on plasma and plasma substitutes now decrees that the use of such plasma must be discouraged and even discontinued because of strong new evidence from a three-year study by Los Angeles researchers.

The March-April issue of the journal *TRANSFUSION*, published April 5, carries the committee's 1,600-word recommendation and the California research report by Dr. Allan G. Redeker and Carl E. Hopkins, with Barbara Jackson and Patricia Peck.

Dr. Redeker's study has cast serious doubts on the earlier assumptions, the NRC

warns. His team used methods not available to earlier researchers, and since the study was controlled, in contrast to earlier ones, the committee says it is soundly based and carefully conducted.

"Because of the sizable resources effort and time required for such studies," the committee emphasizes, "the possibility that Redeker's work will be repeated in other laboratories appears slight. Even if other studies were initiated now, years would pass before requisite data would be forthcoming. In the interim, Redeker's data appear convincing: combined treatment with ultraviolet irradiation and storage at 30-32 degrees C. for six months under closely controlled commercial supervision does not eliminate the risk of hepatitis."

Twelve of the 120 patients studied by Redeker's team at Los Angeles County Hospital contracted acute hepatitis after being given pooled whole plasma, whereas not a single case of hepatitis was noted among 46 patients receiving the control solution, which was five percent serum albumin.

—*Science News*, April, 1968

A warning note is sounded in the use of plasma, in that it seems that it has caused the incidence of hepatitis — a liver disease — to rise. The disease is not caused by the plasma, however, but is supposed to be transmitted from those suffering with the disease, the virus of which survived the ultraviolet radiation which was thought to purify the plasma.

THE ROLE OF TRACE ELEMENTS AS CATALYSTS IN THE HUMAN BODY

In the Middle Ages the alchemists declared that gold and silver were valuable substances in the healing art. They also used other metallic medicines. Today's medicine is taking up where the alchemists left off, as the following report shows.

Geneva, Switzerland, is the headquarters of the International Centre for Biological Research. This is a scientific organization without any commercial motives, and it is maintained only with voluntary works. It has no money nor any tangible assets, yet it is making tremendous strides — particularly in the field of nutrition.

At present the organization has approximately 250 members, of whom 180 are medical doctors (30 of these are university chair-holding doctors on medical faculties). The remaining membership includes astronomers, chemists and biochemists, dentists, electronic specialists, geologists, mathematicians, physicists and non-professional persons. It is said members are carefully chosen

from people of great knowledge who have open minds.

The aim of the organization is to bring together on a peaceful basis people of science with various ideas who are able to discuss their views with each other. There are doctors of all nations in the group. And, although the movement is still in its infancy, amazing results of great magnitude have been reported.

We had heard a great deal concerning the work being done in the field of trace elements by some of the members of the International Centre for Biological Research.

Trace elements, for those who are not familiar with the term, are mineral substances which are present in very small amounts in the soil, water, food and even in the air we breathe. Scientists are discovering they can be of inestimable benefit to human nutrition; or harmful — as in the case of atomic fallout. In this report we are concerned with the helpful phase.

To get firsthand information on this vastly important subject we recently conferred at Geneva, Switzerland, with the president of the organization, Dr. E. J. Sallaz. (His doctorate is an honorary one.) He is a free researcher and is largely responsible for the success of the organization.

Dr. Sallaz spoke of biological *catalysts*, for that is the manner in which they have employed trace elements. He said a catalyst is an effect which can be tremendous, simply upon contact of its presence; but it does not go into the final product. He gave the following as an example: If you put two parts of nitrogen and one part of oxygen together in the gaseous form, you can heat the remaining gaseous mixture of two parts of hydrogen and one part of oxygen; but it will do nothing. It remains a gaseous mixture. However, if you want to produce water with it, you put platinum in contact. As soon as you do this a reaction similar to an explosion occurs and you have water. The platinum then is the catalyst, and it does not appear in the water.

He stated they have found by using two pure elements like gold and copper, or copper and manganese, they can produce a predetermined effect on the functioning of the body. In all of France or Switzerland they do not know why this is so — there is no theory for it — but they have made 10,000 experiments before giving their results and found that it follows a law. They do know that in order to have an element give results in the human body as a catalyst (have a catalytic effect), it must be given in minute quantities. Otherwise, it has no effect.

* * *

Executive's disease, which the doctor describes as characterized by nervous exhaustion, the jitters and loss of memory, reportedly has been overcome by the administration of the biological catalysts. In this case two ampules of copper, gold and silver (the three elements combined in one ampule) are

put under the tongue one-half hour before breakfast, twice a week, for only two or three months. The results, said Dr. Sallaz, are new life and ambition which may last for years. Should the symptoms return, all one has to do is take another dose.

The same method has been employed for treating rheumatism, arthritis and allergy, with *manganese* as the catalyst. Dr. Sallaz stated a French doctor had obtained extraordinary results with hopeless cases of arthritis through the use of catalysts, and patients had recovered full use of their limbs without the application of cortisone.

The catalysts have been used to combat insomnia. In most of the cases *aluminum* was used for the catalytic effect. The doctor told of friends who had been taking sleeping pills regularly every night. After one-half dose of aluminum ampules under the tongue, twice a week for one or two weeks, they were able to sleep beautifully. He added that some of the medical doctors in the organization are giving their patients copper or silver ampules for insomnia. Which of the two elements is used depends on the particular case.

The doctor said if he begins to feel an attack of the flu coming on he takes an ampule of copper. He takes another one six or eight hours later — maybe he has to take a third. By that time the flu has been cut. According to him, if taken at the beginning the copper will destroy the flu virus in the system in one day.

We were informed of other successful uses of the catalysts — *manganese* and *copper* in the treatment of tuberculosis and hyposthenia (*weakness*); and *manganese* and *cobalt* for neurosis.

* * *

Dr. Sallaz told of other magnificent experiments which have been conducted by members of the International Centre for Biological Research along the lines of retarding aging, the growing of natural foodstuffs, and combating juvenile delinquency. Speaking for the members of the organization as a whole, he said they are interested in working only with doctors and scientists who are *real*, meaning those who give equal consideration to the rich or poor individual.

In reading the foregoing you may say it's too good to be true. Many of us have come to believe that scientists of various fields cannot work peacefully together for the good of the whole; that each must follow his particular path and leave to the researcher the task of compiling the results. However, members of the International Centre for Biological Research have proved that by putting aside petty jealousies and cooperating with specialists of other professions, extraordinary and tremendous results can be obtained. This is the kind of progress that will benefit all mankind.

Note: This Reprint is excerpted from Nov. 1961 issue of LET'S LIVE, Los Angeles 29, Cal.

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FROM OUR PATIENTS

California—For about five years I have been unable to drive for more than 15 minutes without having loss of circulation in hands and feet. Tuesday I drove to San Bernardino and back with no such discomfort, and the arthritis in my right leg is clearing up. Hooray!

Idaho—I feel so different — like a new person. Have more interest in things and want to do my work. I stayed on the diet six half-weeks, lost 14 pounds, look so much better. Am so grateful for all your help. I don't think life would be worth living without the Fellowship. Your wonderful letters have helped me so much. God love you all.

Louisiana—My sincere thanks to you, and praise and thanksgiving to our beloved Saviour for the improvement in our friend's condition. The thanks and joy expressed in the faces of both him and his wife are an inspiration.

Texas—I have received much help from your Healing Department. I never realized before that what one eats means so much in having health and well-being. I have enjoyed it all and look forward to next year as being even better, for I know so much more now how to think and act and live. Thank you so much for the lift.

California—The knot in my side is gone, and my throat gives out sounds of normal register, even though still somewhat blurred by mucous. . . . Of course, I am not automatically cured, but I feel so much freer inside. It is as if someone had opened some windows and let in fresh air. Am sure the supplements you suggested have had a great hand in this . . . Thank you again for your suggestions and prayers.

Brazil—God bless you for your kind letter. There's so much to be grateful for, and no words to express how I feel. What an error on my part to break my Probationer's pledge! I wonder if I'll be forgiven for my weakness. I feel much better now. Your message has filled me with faith and hope. God bless you for all you have done for me.



Mind and Healing

IT is well known to science that an attitude of fear breaks down the power of resistance of the body, and thereby lays it liable to diseases which would not otherwise be able to gain a foothold. From the occult point of view it is perfectly plain why this is so. The dense body which we see with our eyes is interpenetrated by a vehicle made of ether, and the energy from the Sun, which pervades all space, is constantly pouring into our body through the spleen which is a specialized organ for the attraction and assimilation of this universal ether.

In the solar plexus it is converted into a rose colored fluid which permeates the nervous system. This may be compared to electricity in the wires of an electric or telegraphic system. By means of this vital fluid the muscles are moved and the organs perform their vital functions so that the body may express itself in perfect health. The better the health the larger the quantity of this solar fluid which we are able to absorb, but we utilize only a certain part of it and the surplus is radiated from the body in lines.

These lines of force which flow from the whole periphery of the human body radiate in straight lines when we are in perfect health. This condition is therefore aptly described as radiant health. We speak of such a person as radiating life and vigor. Under such conditions no disease germs can ever get a foothold in his body. They cannot enter from

without because of these invisible streamers of force; and those micro-organisms which enter the body with the food are also quickly expelled, for the vital processes in the body are selective as shown by the kidneys, for instance, which excrete the waste matter while retaining vital substances necessary for the economy of the body.

—Max Heindel

(Continued)

* * *

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

September..... 1 — 8 — 15 — 22 — 28

* * *

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

MISCELLANEOUS

OUR READERS SAY

There was some discussion in the *Rays* about the seed atom in heart transplants. In the case of the So. African Philip Blaiberg, who is still alive, the entire heart was not removed. It was shown on a heart model on television that only the lower third of the heart was cut away and replaced by a transplant. This may explain why he is still alive.

—J.W.E.

Sorry to be late getting this renewal in. Please be sure I receive your June issue, as I surely don't want to miss a copy. I enjoy your magazine so very much, as I do all your inspiring publications. My contact with your fine organization has been a high point in my life.—H.R.

Enclosed my check for renewal of my subscription to *Rays from the Rose Cross*. I do not want my present subscription to run out—ever. Also, I have never read anything so beautiful as *Studies in Astrology* by Elman Bacher. I am desirous of obtaining other writings of this man. Are there any other books by him I can purchase?—E.M. (*We know of no other writings by him except the nine volumes of Studies in Astrology which we have listed for sale, and which were first printed in our RAYS. Sorry!*—Ed.)

I look forward each month to the receipt of the *Rays*, and especially for its correlations of scientific discoveries with the occult teachings, as well as for its ever welcome message of love and hope.—P.C.

Enclosed renewal for *Rays*. You have a fine magazine. I hope to find time to write an astrology article for it later on in the year. Now that I mentioned astrology, let me say that I can't imagine why any astrologer would buy any other ephemeris but yours. It is so simple and clearly printed.—T.M.

FROM OUR PATIENTS

Wisconsin—Am making progress. My headaches are gone and I sleep much better at night. Thank you and the Invisible Helpers for your kindness and healing ministrations. This has been written without my glasses!

Pennsylvania—During the past week I have enjoyed marked improvement, which hopefully will be sustained. This to me is evidence of the effect and success of your prayers and the work of the Invisible Helpers, and proof too of the need of them both on my part.

Arizona—I am improving daily. Each week puts me in better health, and with less pain. I am so thrilled with the results; it's so wonderful you are helping me. Please continue, and God bless you all.

California—Am slowly but surely winning my battle with elimination, as I continue on the strict diet and exercise regime. Enjoy my raw salads and never seem to tire of them. I flavor them with garlic sometimes, and always use raw celery, chard, spinach, and apples in abundance . . . An unknown (one of three) rare disease, presumed to have been in my body since birth, has disappeared. Thank you — from the bottom of my heart.

Colombia—With a full heart I write to thank you for all you have done for me. I have regained my sight, thanks to the vegetarian treatment you advised me to follow. I am taking the vital broths daily, and I also take apple vinegar with honey and have had wonderful results. May God bless you all.

Salvador—My gratitude grows daily for all the love you have for me and for all humanity. My health has improved, so that for a long time I have not used a cane. (I have a leg paralyzed by poliomyelitis.) Next year I plan to return to school and finish my primary instruction. I hope to gain complete mental capacity to do good work.

Peru—I don't know how to express my gratitude for your letter containing instructions for improving my health. Your words encourage me to overcome all obstacles and go ahead without fear. The Elder Brothers help me, and I pray God they will sustain me in my chosen tasks. Please do not forget me in your prayers.

OUR NEED FOR BALANCE

It has been said by authorities that of all spiritual and physical laws the Law of Balance is the most important—the underlying law of Creation. Upon it depends the continuity of the universe. Operating in both the microcosm, man, and the macrocosm, our universe, it is all-comprehensive and all-wise; the stability of all life in manifestation rests upon it. It is the fundamental cause and the ultimate effect of the Law of Opposites, the Law of Polarity, the Law of Periodicity of Cycles, and all forces in opposition. There could be neither spiritual, psychic, nor material life in form were it not for the action of the Law of Balance. Violations of this law, by either man or Nature, inevitably result in major or minor catastrophes.

Occult philosophy teaches that evolution is "the history of the progression of the Spirit in time." Observing evolution as it manifests through the varied phenomena of our universe, we find that its path is a spiral, each loop of the spiral being a cycle toward the attainment of the state of equilibrium.

On the larger scale, cycles occur as the Sun moves backward among the twelve constellations by the movement we call the precession of the equinoxes. The climate, flora, and fauna of the Earth are slowly changed, thus making a different environment for the human race in each successive age as it journeys toward Oneness with God, the Creator. There is also the cyclic path of the planet, the turning points of which are

the equinoxes and the solstices. Hence the occultist observes the Summer Solstice (June 22) and the Autumnal Equinox (September 23), as well as Christmas and Easter. They indicate the periodical flow of the invisible forces investing our Earth which, working at the behest of the Law of Balance, cause the physical, moral, and mental activities upon our globe.

On a smaller scale, it is through the operation of the Law of Balance that man is "born" and "dies," but eventually there comes about the completion of the final unity of all diversified life. The human Spirit ultimately overcomes all that has obstructed its evolutionary progress; the desires are brought under the control of the Spirit through the will and mind; sex disappears into the sexlessness of the Adept. He who has made himself amenable to the functioning of the Law of Balance within himself is no longer dominated by the opinions, desires, or experiences of any other being—in the body or out of it. His life is dedicated to the purpose of knowing and obeying God's omniscient laws, and ever moves with an inner harmony and effectiveness toward that end.

The many extremes which exist about us today are glaring reminders that there is a pressing need for balance in our lives, and in the affairs of our "brave new world." The ease with which the masses of people fall into a hysteria of hero worship or a condemnatory attitude, become possessed with fear over the possibility of nuclear attack or monetary inflation, pursue blindly a course of intolerance and persecution toward race and religion, become involved in unethical business and political practices, stress sex inordinately, succumb to the false life of intoxicants and narcotics, over-emphasize the material side of life to the detriment of the spiritual, engage in "cold" and actual warfare — these abnormal conditions are all symptoms (as well as results) of the imbalance within human beings which unleashes the forces of destruction.

HOW YOU MAY STUDY WITH THE ROSICRUCIAN FELLOWSHIP

The Rosicrucian Fellowship is an association of Christian men and women banded together for the purpose of helping to make Christianity a living factor in the world. Its teachings are designed primarily for the Western peoples, giving a definite, logical, and sequential explanation of the origin, evolution, and future development of the world and man, from both the spiritual and scientific aspects. The Fellowship has no connection with any other organization.

Upon completion of the Preliminary Philosophy Course, one becomes a Regular Student, receives a monthly Letter and Lesson. These are to be studied, though no written answers are required. The postal card sent with the Student Lesson is to be signed and returned each month, so that connection with the spiritual forces of the Fellowship may be maintained. After two years of Regular Studentship, during which time the aspirant has striven to raise his spiritual standard of living, practising self-control and "loving, self-forgetting service to others," he may take the next step: Probationership. Full membership and voting privileges are accorded only to Probationers.

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