

UNIVERSE

QUARTERLY, Winter Solstice 1973

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In this issue.....

THE CHRISTMAS STAR, REAL OR SYMBOLIC?

When was Christ really born? Both historical and astrological data point to the true date.....3

LOVE, THE KEY TO CREATIVE COMMUNICATION

Creative communication is honest communication. Stanley Spears explains extremely well how to reach others by first understanding yourself.....6

TUNE INTO UNIVERSAL VIBRATIONS

The "Music of the Spheres" was known by the ancient Greeks and has been proven scientifically to exist.....8

A "HAIRY STAR" TO GREET 1974

Comet Kohoutek is expected to be the spectacle of the century. Man has viewed comets with apprehension throughout history. What are comets? And what are their effects?.....9

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Paul Dozier

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Cover drawing—IN THE SHADOW OF ISIS by Luc Oliver Merson



Paul Dozier and Roblyn Bulstrode at the Vortex Institute

Editorial

FROM FAIRBANKS, ALASKA TO DENVER, COLORADO

1973 is drawing to a close and it is time to evaluate another year's work and the second year of existence for The Vortex Institute. It seems like much more than only two years, perhaps because we have worked so hard and made so many changes quite rapidly.

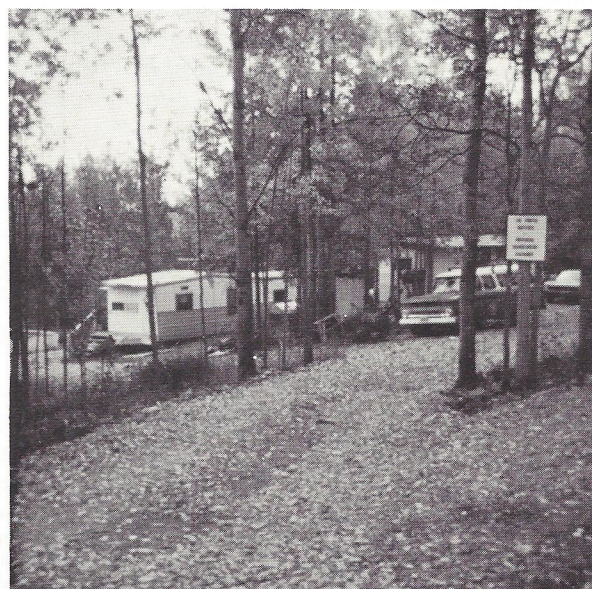
Paul Dozier, chairman of the institute and Roblyn Bulstrode, its secretary and "girl Friday" are doing a magnificent job of keeping activities going in Alaska and developing the new property site. Paul's residence, the lending library, the books for sale and the offices are all currently housed in the large trailer on the property. Roblyn is also living there in her own little cabin, which doubles for storage.

Considerable landscaping was done this past summer, including a new driveway. "Tailings" from old gold mining operations provided fill and rock. A water storage system and new deep well pump were installed and preparations begun to pour a concrete floor in the new building next spring, we hope. Most of our current efforts are being directed towards fund raising to make the continuation and expansion of the work there possible.

My husband, Lawrence and I are now settled into Denver, Colorado to compete the astrological computer program begun by Lawrence some two years ago. It is now going into its first phase of

completion and is operable. Denver is being used as a testing area, while the program undergoes development.

In its first phase it consists of a natal astrological analysis by zodiacal signs and the planets in the twelve houses of a horoscope, the planets according to the sign they are in and current transiting planets. This is being expanded into aspecting natal planets. Psychological and vocational potentials are being stressed at the present, with emphasis on identification with well known and famous



(Continued on page 17)



The Christmas Star, Real or Symbolic?



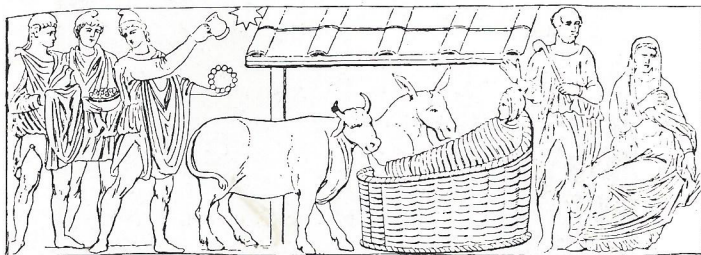
The three Magi before King Herod and the Adoration by the Magi.
(A bas-relief from an early Christian Sarcophagus)

“Now when Jesus was born in Bethlehem of Judea in the days of Herod the King, behold, wise men from the East came to Jerusalem, saying, “Where is he who has been born king of the Jews? For we have seen his star in the East and have come to worship him.” When Herod the king heard this, he was troubled, and all Jerusalem with him; and assembling all the chief priests and scribes of the people, he inquired of them where Christ was to be born. They told him, ‘In Bethlehem of Judea; for so it is written by the prophet:

‘And you, O Bethlehem, in the land of Judah, are by no means least among the rulers of Judah; for from you shall come a ruler who will govern my people Israel.’

Then Herod summoned the wise men secretly and ascertained from them what time the star appeared and he sent them to Bethlehem, saying, ‘Go and search diligently for the child, and when you have found him bring me word, that I to may come and worship him.’ When they had heard the king they went their way; and lo, the star which they had seen in the East went before them, till it came to rest over the place where the child was.”

Matthew 2:1-9



The three Magi from a Fourth Century sarcophagus. Note that throughout these early works of simple art, that the Magi are dressed in Phrygian caps, short tunics and flowing mantles, with each carrying a bowl of gifts to present to the Infant. It wasn't until later that the scenes became more and more elaborate and the Magi became exalted as “Kings of the East.”

Opinion varies greatly on the origin and meaning of the star the magi followed, and upon who the magi were. Max Hiendel, founder of the Rosicrucian Fellowship describes the star as purely symbolic, pertaining specifically to initiation. While Kepler, the renowned astronomer, apparently felt that at the time of the incarnation there was a grand conjunction of planets in the sign of Pisces. He is quoted as saying, “It is in this constellation that the star of the Magi is to be found.” The Jewish Kabbalists also call Pisces the “constellation of the Messiah.”

The greatest question is the actual date of the birth. Conjecture varies from December through the following spring. Sir James Frazer in *The Golden Bough* states that ecclesiastical authorities at about the end of the third or the beginning of the fourth century, arbitrarily transferred the nativity from Epiphany on January 6th to December 25th to divert heathen sun worship to Christ. Epiphany was a feast in celebration of the coming of the Magi and the first manifestation of Christ to the Gentiles, not his actual birth. The December 25th date coincided with Saturnalia celebrated by the Romans on the first day of winter and the Winter Solstice.

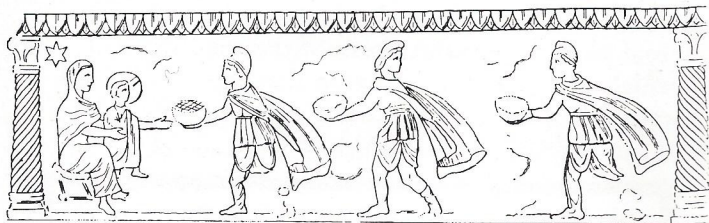
It is also commonly considered that Jesus was born in the year 1, however, there is evidence that indicates it was more likely between 4 and 8 B.C. To determine the possible astrological source of the star, we need to first determine the probable season and year.

The Jewish history, written by Flavius Josephus about 93 A.D. describes the events that occurred at the time. He says, “Now it happened that during the high priesthood of Matthias, there was another person made high priest for a single day, that very day which the Jews observe as a feast and that very night there was an eclipse.”

This pinpoints a specific time, since it involved both a feast day and an eclipse. Josephus went on to say that this appointed priest was due to an illness of King Herod, from which he soon died. There was a partial eclipse of the moon on March 13, 4 B.C. This was the only eclipse that occurred on or near any religious festival day for several years either side of 4 B.C., which indicates that Herod probably died shortly after March 13, 4 B.C. Therefore, for Jesus to have been born in the time of

Kind Herod, he would have had to have been born in 4 B.C. or earlier.

The Bible at Mathew 2:16 indicates how much earlier this probably could have been. When the magi failed to return to Herod as he had requested with the location of the child, he ordered the murder of all male children two years old and under. Since he had asked the magi when the star appeared, a span of two years, at least is indicated between the appearance of the star and the death of Herod, which means Jesus could have been born in 6 B.C.



The Adoration of the Magi from the tomb of the exarch Isaac in the Church of St. Vitalis in Ravenna, belonging to the sixth century.

Another clue pointing to this time period is the taxation order recorded in the Bible at Luke 2:1-5, "In those days a decree went out from Caesar Augustus that all the world should be enrolled. This was the first enrollment, when Quirinius was governor of Syria. And all went to be enrolled, each to his own city. And Joseph also went up from Galilee, from the city of Nazareth, to Judea, to the city of David, which is called Bethlehem, because he was of the house and lineage of David, to be enrolled with Mary his betrothed, who was with child."

A stone tablet which contained an inscription from a Roman temple was uncovered by archeologists near Ankara, Turkey in 1923. This tablet recorded many events during the reign of Caesar Augustus, including three great tax orders. One of them was issued in 8 B.C. and is thought to have included the entire Roman Empire, or all of the civilization then spread around the Mediterranean. In order to levy the tax, each person was commanded to return to his birth place to be counted and the tax collected.

Such a tax order and its collection would necessarily require many months first to be issued throughout the land and then considerable time for people to journey overland by foot or donkey. It is then conceivable that this tax order from 8 B.C. was the one that sent Mary and Joseph to Bethlehem, thus placing the birth between 8 B.C. and 4 B.C., with 6 B.C. as highly probably.

Respecting the time of year, at Luke 2:8 we read: "And in that region there were shepherds out in the field, keeping watch over their flock by night." It is not at all likely that these shepherds, who were visited by an angel, would have been tending their flocks in the rain and cold of mid-winter. Flocks were sheltered from such winter weather and not taken to the fields

until spring, and the shepherds only spent nights out with the flocks in the springtime when they had newborn lambs to protect.

By these deductions, we arrive then at a probable birthdate during the spring of 6 B.C.

During the preceding fall and winter of 7 B.C. there were three planets, then known as "wandering stars" because of their movement across the heavens, that were moving closer and closer together. These planets were Mars, Jupiter and Saturn. At first only Saturn was in Pisces, but as 6 B.C. was entered, they kept moving closer and closer together until they formed a small triangle in Pisces. They were visible low in the western horizon and set early in the evening. It was not a conjunction that most people would notice, but the magi were astrologers. They would have been aware that these planets in Pisces that these same three planets appeared in Pisces prior to the birth of Moses, causing Pisces to become the national constellation of the Jews and their tribal symbol, with the fish later becoming the Christian symbol.

The astronomer Kepler is said by Madame Blavatsky to have "recognized the grand and universal importance of such planetary conjunctions, 'each of which is a climacteric year of Humanity.' The rare conjunction of Saturn, Jupiter and Mars has its significance and importance on account of certain great results, in India and China, as much as it has in Europe. (Climacteric year meaning a critical period during which great change is periodically expected in human or cosmic constitution and pertaining to universal spiritual changes.)"

It becomes entirely feasible then, that this conjunction in Pisces was anticipated by the magi. In 6 B.C. on February 20th we find at midnight that the sun was at 0° Pisces, Saturn was at 21° 2' Pisces, conjunct Mars at 22° 4' and Jupiter at 27° 6' in Pisces. The moon was at 0° Virgo and the ascendant would have been at 22° 34' Scorpio. Mercury was at 2° 8' in Aquarius and Venus at 16° 2' in Capricorn. The moon interestingly would have been directly on the Mid-heaven and the sun directly opposite on the Nadir, indicating a total recall from the sub-conscious mind, self-knowledge and disregard of the personality. It is an extremely psychic spiritually oriented chart.

A chart of the crucifixion, dated as April 5, 33 A.D., at 1:30 in the afternoon indicates all of the natal planets in Pisces would have been conjunct the transiting Venus in Pisces in the 8th house of death and spiritual transformation, while transiting Saturn would have been in Cancer in the 12th house of karma opposed to the natal Venus within 2'. Among other aspects, the transiting sun in Aries would have been square the transiting Saturn and the natal Venus. These

are all very strong factors for a death chart and offer confirmation that the proposed natal chart may be correct.

If so, then the date we celebrate as the birthday of Christ is entirely symbolic, remaining more accurately a continuation of the ancient Winter Sostice celebration. We see the carry over of this in our lighted Christmas trees, burning yule logs, candles and other traditional customs, all of which relate to bringing the sun or fire indoors. They were originally intended to aid the return of the sun after this, the shortest day of the year.



An early painting from the Catacomb of SS. Marcellinus and Peter at Rome, dating from the first half of the third century. While the dress of the Wise Men does not indicate royalty, it does show Eastern origin.

It is interesting that the gifts given by the magi were all also symbols of the sun. Both Frankincense and Myrrh have protective, preservative and medicinal properties. This symbology of the sun and the "son" is very complex, ranging from consideration of the sun as the source of life, to gold as symbolizing the philosophers stone of alchemy and transmutation of lead to gold or flesh to spirit.

There are nosimple, cut and dried, breakdowns in dealing with symbology. This is what makes it a universal transcendent language, with application on all levels or in any world. We can, therefore, probably be correct in considering both the symbolic and the actual physical manifestation of the the "star" of Bethlehem. There is no reason that more extended awareness should diminish the enjoyment of the day, so MERRY CHRISTMAS to all.

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LOVE, the Key to Creative Communication

by Stanley Spears

The following is an article to seriously take to heart, contemplate and honestly review repeatedly.

Stanley Spears is the founder and president of Divine Dynamics, a spiritual society and non-profit corporation dedicated to teaching and demonstrating eternal life of body, mind and soul.

Brother Stanley has been teaching Truth for many years, through hundreds of lectures, countless articles and five published books. He is now creating a new Christian Mystery School and Spiritual Sanctuary, to be conducted in the same way Jesus taught his disciples.

This sanctuary is to be built in the southeastern United States on a site yet to be purchased. Support is being prayerfully solicited, with all funds being deposited toward the purchase of property. Address any donations, gifts or contributions to Divine Dynamics, 341 North Ellen Dr., West Covina, CA 91790

THE POWER OF COMMUNICATION

The power to communicate our thoughts, ideas and emotions is the one outstanding trait that distinguishes man from the lower animals. Harmony depends upon understanding and the more effective and efficient the communication, the more complete the understanding will be. This breakdown in communication is obviously the source of much trouble in the world; we don't like people or nations because we don't understand them; we don't understand them because we have failed to communicate our thoughts, beliefs, desires and intentions. This inevitably comes back to the fact that we are at odds with ourselves and life because we have not succeeded in communicating with our own Higher Self.

To communicate creatively with others requires a common understanding. It is always a two way action of projection and reception. The clearer the projection is the better the reception will be. Emotional content is even more important than intellectual content, as we respond to feelings first, then thought. If we speak in anger we usually provoke anger, even if our words are not themselves provocative.

Therefore, if we are ourselves emotionally disturbed

it is necessary to sooth ourselves first to avoid transmitting our own disturbance to others. Anger, being a contagious affliction, can be spread quickly by a sharp tongue. The best way to quench the flames of hostility is to refuse to feed them. We can snuff them out within ourselves and refuse to allow them to spread.

It is only human to get mad when you are hurt and it is only human to suffer the consequences. If you are content to be only human, then why study spiritual books and seek to learn the will of God for your own soul? We must strive to become more than human; becoming spiritual beings aware of our Oneness with God. Human beings have something in common with God; they have freedom of choice. We can either give way to our mortal weaknesses, or rise to divine heights by mastering them.

TONGUE CONTROL

As the poet wrote in inspiration, "You are the master of your fate and the captain of your soul." You are seldom responsible for the actions of others, but you are always responsible for your own RE-ACTIONS. Once you learn the secret of self-control, you can master tongue control. Our speech is the outward expression of our inward impression. By impression I mean the accumulations of years of habits in thought, attitude and belief. Most of our actions and reactions have become automatic thru these years of habitual response to outward stimuli. Whatever can be accumulated by habit can be discarded by choice and will. Whatever is displaced should be replaced. Nature abhors a vacuum; we must replace old habits with new desirable ones. Remember the parable of the man who swept the devil out of his house and then later on seven new ones possessed it.

DIRECTED DESIRE

To solve a problem you must first become aware that it exists. After you have acknowledged existence, you must then gain an understanding of its nature and have a strong desire to overcome it. Wisely directed DESIRE and WILL are the sure foundation for accomplishment. The real reason so many people do not overcome some harmful habit is that their desire to continue is stronger than their wish to stop. However, instead of admitting

this, they deceive themselves and go to great lengths to find logical reasons why they can't break the habit. They will claim the "flesh is weak", but actually it is the will. The flesh will always obey the insistant will of the soul. That which often appears as a weakness of the physical is only an outward expression or perversion of inner desires. Many times we accept substitutes on a physical level for desires which we are not able to accomplish on a higher plane. Even overindulgence in food and drink is often a sublimation of an emotional desire for love and affection.

Addiction to drugs and alcohol is not yielding to fleshly desires, so much as an attempt to escape from demands of the soul; a flight from higher reality into a world of illusion. In other words, excess in one direction usually indicates lack of success in another. We should seek and treat the cause and not the effect. We should concentrate on causes, rather than trying to remove a symbol of overindulgence. Honest self-scrutiny is essential along with self-acceptance, for often it is very difficult to accept ourselves for what we really are. The longer we pamper and make excuses, the longer it will take to face a real problem. Remove the cause of emotional frustration and you automatically eliminate the by-product.

If we can successfully remove the cause of our inner hostilities, there will be no motivation for us to lash out in angry words when we receive anger or frustration. We cannot always chose our associates or conditions, but we can always control our responses to these circumstances. We must clean up our own inner house, before we can criticize or help our neighbors. Salvation, like charity, begins at home.

CYCLE OF "BELIEF"

"Don't believe everything you hear" is the skeptics warning, but most people do believe everything they hear, provided they are speaking and the message is negative. They speak words of failure, fear and frustration and accept them as so, thereby establishing habit patterns to fit what they have told themselves. Here we have a truly vicious circle: Outward expression makes inward impressions and these inner impressions are continually played back to make an outward demonstration of emotional expression; just like a squirrel in a cage.

However, this same tendency of self-belief can be turned to our benefit, if we first learn the truth and then teach it to ourselves. Man's tendency is to believe the worst; conscious effort, desire and will must be applied to overcome this lack of self-confidence and poor evaluation. It is like engineers say regarding computers: "Junk in—junk out." If we start with a false premise, all of our findings will be falsely built upon error.

The laws of nature are neutral; they are neither good, nor bad, moral or imoral; they simply operate like

obediant machines. It is up to you to harness and super-vise these forces of nature. If we are to obtain divine results, we must realize we are more than human and able to manipulate natural law to our ultimate benefit. It is our own decision whether to neglect, use or abuse the laws of nature. We cannot break them, but they will break us if we improperly apply them.

CREATE YOUR EMOTIONAL CLIMATE

How we live often depends upon "where" we live. Because every man is a compound of the physical, emotional, mental and spiritual, he has a free choice to select his "place of existence" and to adapt to a climate as he finds it or change it to meet his needs and desires. Man is not yet the master of his environment, but thru mechanical means he adjusts the climate in his home and work place by heating, air-conditioning and so forth. These are physical adjustments. Thru mental and emotional control and is also possible to create a more favorable emotional climate. If we encounter "frigid" people, we can thaw them out with "warm" words or if they are "hot" under the collar, we can "cool" them off by keeping calm and throwing cooling words on their inner fires.

We can accomplish this only by recognizing that we are either not the cause or the target of their particular condition and by refusing to contribute to their attitudes. All of us become emotionally disturbed at some time or another. We cannot ignore this, but we can channel this emotional drive into constructive, rather than destructive activities. Man was not intended to live like a vegetable; tensions are not only inevitable, but desirable, if we are properly motivated.

The right approach is not to deny the emotion, but to recognize the true cause and try to divert this aroused energy to a solution of a person's problem, rather than accepting it personally and becoming emotionally involved.

AGREE QUICKLY

The Bible tells us to agree with thine adversary quickly," and this is psychologically sound advise. Some people just have to "get it off of their chest" and we may have to bear with them until they blow off steam. We must not try to change their attitude too quickly, for they will respond as though we are opposing them. Any change must come gradually and never appear as opposition. Change from within must also be approached steadily; never forced, expecting instant change.

I once spoke to a musician who played therapeutic music for patients in a mental hospital. He told me that he discovered early in this service not to start playing gay lively music for those inmates who were depressed because they resented this intrusion and sudden change of mood. I'm sure you can recall instances when you tried to communicate with a friend regarding a very serious condition and he appeared to dismiss it lightly

(Continued on page 14)

Tune Into Universal Vibrations

"THE MUSIC OF THE SPHERES"

In *Astronomical Myths* Flammarion tells how Pythagoras discovered harmonic numbers. Pythagoras concluded that the moving planets must also correspond to the same rule, producing the "music of the spheres."

"It is stated that one day Pythagoras, passing near a forge, noticed that the hammers gave out very accurate musical concords. He had them weighed, and found that of those which sounded the octave one weighed twice as much as the other; that of those which made a perfect fifth, one weighed one-third more than other, and in the case of a fourth, one-quarter more. After having tried the hammers, he took a musical string stretched with weights, and found that when he had applied a given weight in the first instance to make any particular note, he had to double the weight to obtain the octave, to add one-third extra only to make a fifth, a quarter for the fourth, an eighth for one tone, and about an eighteenth for a half-tone; or more simply still, he stretched a cord once for all, and then the whole length sounded any note; when stopped in the middle it gave the octave, at the third it gave the fifth, at the quarter the fourth, at the eighth tone and at the eighteenth the semitone."

Plato in his *Republic* taught that there is actual music and harmony between the planets.

Garret P. Serviss writes, "As we watch the stars in their courses, the true music of the spheres comes to our listening ears, the chorus of creation—faint with distance, for it is by slow approaches that man draws near to it—chanting the grandest of epics, the Poem of the Universe, and the theme that runs through it all is the reign of law."

It is these laws that Pythagoras began discovering. He played a seven-stringed harp called a phorminx, experimenting mathematically with the harmonics of the vibrating string, and noted the striking similarity between the spacings of the planets and musical intervals. According to Hippolytos (c.400 B.C.), "Pythagoras maintained that the universe sings and is constructed in accordance with harmony; and he was the first to reduce the motions of the seven heavenly bodies to rhythm and song."

The seven ancient planets came to symbolize the seven notes of the scale and the seven parts in turn founded the seven days of the week, each day being named after a planet. They may also have been responsible for the seven vowels of the Greek alphabet.

THE HARMONIC MEAN

Pythagorean notice of sympathetic relationships apparently lead to contemplation of the harmonic mean. This is much more subtle than an arith-

metric mean, or a geometric mean. For example the harmonic mean of 6 and 12 is 8 (exceeding 6 by one-third and exceeded by 12 by one-third of 12), the arithmetic mean is 9 (with the difference divided equally by 3). As a result of this, the Pythagoreans came to regard the abstract cube as sacred, because its eight corners form a harmonic mean between its six faces and twelve edges.

We shall soon see how important this was. In the early 1600's the German astronomer, astrologer, mystic and mathematician, Johannes Kepler, turned to music as a mathematical method that might yield a clue to planetary intervals of orbit. He transmitted the music of the spheres by transposing from relative velocities in various sections of planetary orbits.

Kepler believed the earth's notes to be "mi, fa, mi" which could be interpreted as "miseria, famina, miseria," or misery, famine, misery, repeated over and over.

Cicero said, "Such great motions cannot take place in silence, and it is natural that the two extremes should have related sounds as in the octave. The fixed stars must execute the upper note and the moon the base."

Kepler in his work went beyond such conjecture and decided that Mercury's tone was soprano, Venus contralto, Mars a falsetto tenor and Jupiter and Saturn both base.

Between the planets Mars and Jupiter there is a gap in the order, filled only by the asteroid belt, which breaks the progression of the spheres. Kepler felt this was so obvious, that he once said about Mars and Jupiter, "I have become bolder and now place a planet between these two."

150 years later Titus of Wittenburg continued this work by developing a mathematical rule of planetary distances. This importance of this was seen by German astronomer Johann Bode, who developed it into Bode's Law, giving precise mathematical expression to the musical intervals of the planets.

He wrote down a series of 4's, one for each planet. Then numbers were added: 0 for Mercury, 3 for Venus, 6 for Earth, 12 for Mars, 24 for the missing planet (the asteroids), 48 for Jupiter and 96 for Saturn, thereby doubling the number for each planet's distance from the Sun. With the exception of Neptune, the method has proven to be remarkably accurate for all of the known planets today, though it is not actually a "law."

Harmony is found to exist throughout all of the heavenly motions to a striking degree. For example, the three moons of Jupiter rotate daily in precise proportion; the motion of Io added to that of Gandy-

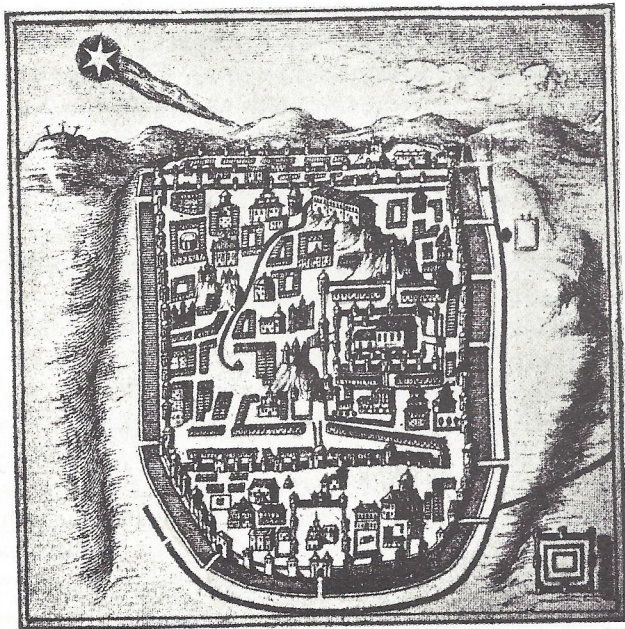
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A "HAIRY STAR"

The name "comet" means hairy, arising from the distinctive appearance of their tails. These often look like streaming strands of celestial hair, causing them to be called "long-haired stars." Other names given to comets have meant sword, torch, javelin and broom, all of which they sometimes resemble while they remain visible for days, weeks or even months.

From November of this year through January of 1974 a new comet named Kohoutek (pronounced Ko-HOOT-ek) will be presenting a remarkable display in the western hemisphere. Astronomer Fred Whipple of Harvard and physicist Brian Marsden of the Smithsonian Astrophysical Institute suggest that Comet Kohoutek may be "the comet of the century."

Russian scientist E.L. Krinov anticipates that Kouhotek will be one of the five greatest comets to appear in recorded history.



From "L'Astronomie."

HALLEY'S COMET APPEARED OVER JERUSALEM

Halley's Comet in January A.D. 66, was probably the sword mentioned by Josephus as standing over Jerusalem (Wars, Bk.VI, Chap. v), shortly before its fall.



HALLEY'S COMET IN 1066 (FROM THE BAYEUX TAPESTRY)
The left panel shows people gazing at the comet, "Isti mirantur stellam." The comet is causing Harold anxiety and invasion is symbolized by the ships.

The Chinese and Japanese recorded the exact paths of comets through the heavenly constellations. It was their belief that each terrestrial kingdom had a celestial representative and that since comets went like ambassadors from one celestial region to another, they might give forecasts of terrestrial events.

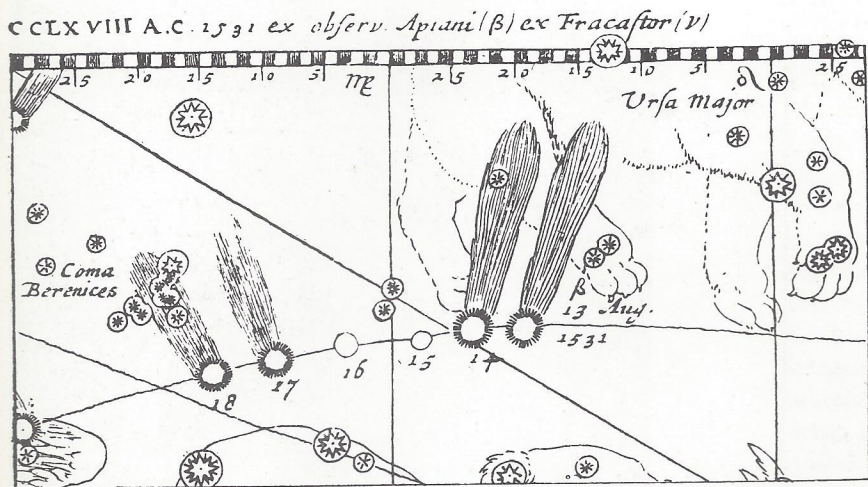
Contemporary records of comets go back to 611 B.C. Apparently the first recorded appearance of the comet later to become known as Halley's was in 467 B.C. This was mentioned by Aristotle, who described a stone falling from the sky during the day the comet appeared. This stone was probably a meteor from Halley's, as it is the only comet that passes close enough to the earth's atmosphere to produce meteor showers.

There was an observance of Halley's Comet in 240 B.C., when primitive men in Eurasia made sketches of it on the dirt walls of their caves, showing a bold streak of light. The comet was worshipped, and interestingly it was believed to have been considered the dietary of salvation.

Traditionally comets have usually been viewed with apprehension. An example of this was given in a humorous light, when Vespasian's courtiers expressed fear about the comet of A.D. 79. Vespasian is said to have replied, "That hairy star does not threaten me; it menaces rather the King of the Parthians; he is hairy, while I am bald."

Except for 163 B.C., there are records of the return of Halley's Comet every 76 years, since

TO GREET 1974



THE PATH OF HALLEY'S COMET IN 1531

Apian and Fracastor determined that the path of the comet went under the legs of the Great Bear and the Hair of Berenice. This was the first apparition used by Halley.

240 B.C. In 1066, on April 2, it appeared five months prior to the Norman conquest. It was viewed as a portend of the Conqueror's campaign and given a place in the Bayeux Tapestry. (see illustration)

American novelist Mark Twain referred to Halley's Comet as a "demon star" and became obsessed with its "ungodly hold on me." Why is it that this comet appeared immediately after both Twain's birth and death? Coincidence?

It did not become possible to ascertain the true orbit of a comet until the central position of the sun became known and the law of gravity recognized and understood. Halley was the first astronomer to predict a comet's return by calculating its orbit around the sun. However, his accomplishment of this was predicted some 1500 years before, in the First Century, by the philosopher Seneca, who said, "Some day there will arise a man who will demonstrate in what regions of the heavens the comets take their way; why they journey so far apart from the other planets; what their size, their nature." Halley's comet is expected to return once again in 1986.

While Halley may have been the first person to calculate a comet's orbit, and therefore its return, he was not the first to realize that comets do return at intervals. The learned Jews apparently noted and anticipated such occurrences. The following passage from the Babylonian Talmud records an incident on a voyage made about the time of the appearance of Halley's Comet in A.D. 66:

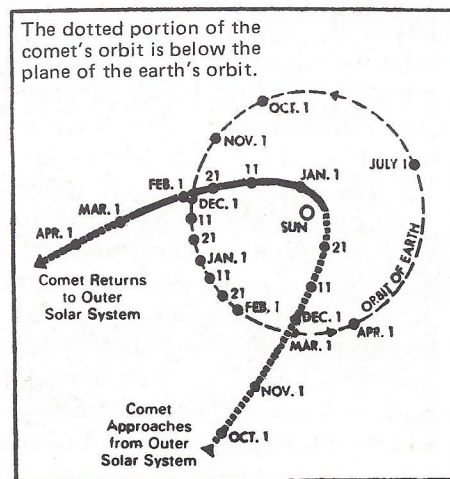
"Two sages of Palestine, Rabbi Gambiel and Rabbi Josue, were making together a sea-voyage. The first had brought some bread, he asked his companion for some flour, saying to him, 'You knew that we should be a long time on the journey, and so you took the precaution to bring flour.' Josue answered, 'There is a very brilliant star which appears every seventy years and deceives sailors. I thought

that perhaps it would surprise us during our voyage and delay us. That is why I provided myself with flour."

Another comet, considered the most spectacular of history appeared in 1843. This comet had a tail twice as long as the distance from the sun to the earth and was estimated to be twice as large as the sun, including the cloud-like gaseous vapors surrounding the solid head. President James Polk wanted to commemorate the event by making it a national holiday, but Congress refused.

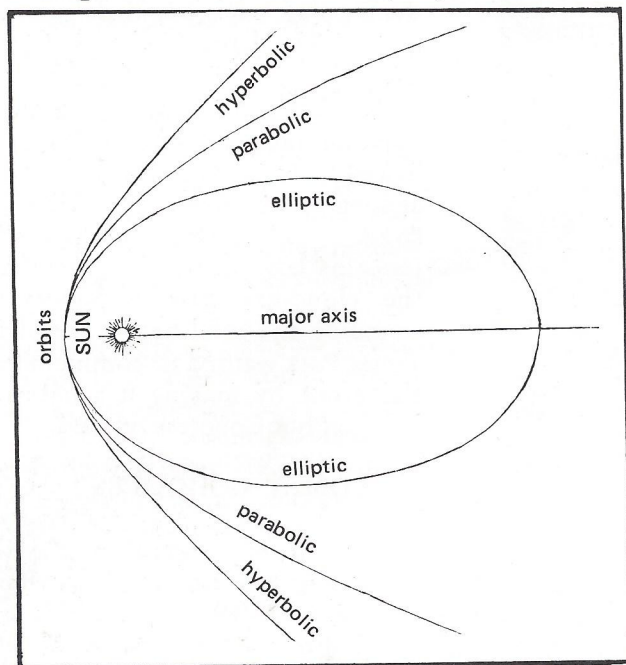
COMET KOHOUTEK

The current sensation, Comet Kohoutek, was discovered accidentally on March 7, 1973 by 62-year old Czech astronomer Lubos Kohoutek. The comet appeared unexpectedly on two photographic plates while he was looking for asteroids from the Hamburg Observatory in Germany. No comet has ever been observed so long in advance of its closest approach to the sun, allowing for extensive advance preparations.



ORBIT OF COMET KOHOUTEK, 1973-1974

Comets move in enormous looping orbits around the sun, held by its gravitational attraction. The shape is determined by speed, and may be elliptic, parabolic or hyperbolic. Near the sun all three of these types appear similar and prolonged observation is necessary to determine the nature of a particular orbit. Kohoutek presents a rare opportunity, as it is not expected to return for 75,000 years.



FORMS OF COMETARY ORBITS
Several cases of each of the above types of orbits are known.

Traveling at a speed of 70,000 miles an hour, it is to pass within a relatively close 13-14 million miles of the sun, closer than all but 30 previously recorded comets. In January it is expected to come within 74.4 million miles of the earth.

Dr. Charles Lillie, University of Colorado astrophysicist, anticipates that Kohoutek may be even brighter than Venus. Venus has a magnitude of minus 4. Kohoutek may surpass this and reach minus 5.8, while some estimates reach minus 11, which would be nearly as bright as the full moon's minus 12. The sun is reckoned at minus 26.7.

According to the Smithsonian Institute Observatory, Kohoutek is exceptionally large. Several estimates are that its solid portion is 10 to 15 miles in diameter, about three times the size of even the brightest previous comets. It has to be exceptionally bright to have become visible, even with the aid of powerful telescopes, last spring, when it was still some 400 million miles and nine months away from its closest approach to the sun. The cloud of vapors surrounding its head is estimated to be more than 50,000 miles in diameter, and the comet has already begun to develop a fiery tail.



Photographed at the *Transvaal Observatory.*

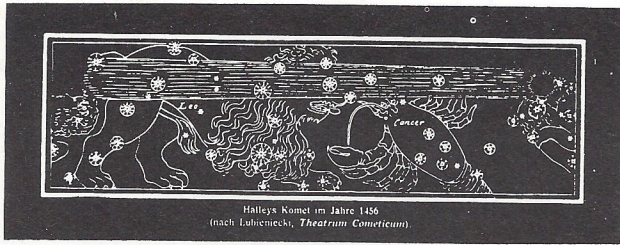
HALLEY'S COMET AS SEEN MAY 1. 1910
Due to its low altitude combined with twilight in England the comet of 1910 was disappointing, however this beautiful photograph taken in South Africa illustrates its actual magnificence.

Dr. Brian Marsden of the Smithsonian Astrophysical Observatory at Cambridge, Mass., thinks that after Christmas Kohoutek may be bright enough to be seen during daylight. Basing his computations on additional observations by Dr. Kohoutek and Smithsonian and Japanese astronomers, Dr. Marsden has plotted an orbit that should bring Kohoutek nearest the sun on Dec. 27-28th.

Numerous scientists affirm that Kohoutek may be as bright as a quarter moon, or brighter, by January. It will therefore be at least two times more brilliant than Comet Bennett of 1969, ten times more brilliant than the Tago-Sago Comet of 1970 and possibly fifty times more brilliant than Halley's of 1910. Halley's comet is estimated to have a "head" about two miles in diameter.

Dr. Lillie, in Colorado, figures Kohoutek's tail should be about 10 to 20 degrees long. There are 90 degrees of sky (or 1/4 of a circle) between the horizon and the zenith or mid-heaven (straight up overhead), which should illustrate the estimated

length of the tail. It can be expected to stretch a satin-white flame across one-sixth of the sky, with a blue mist streaming behind the comet.



HALLEY'S COMET IN JULY, 1456

In 1456 the comet appeared in Gemini, with a tail 60° long that crossed the constellations of Cancer and Leo. The siege of Belgrade was in progress and the comet's appearance is said to have discouraged the Turks and contributed to their defeat.

WHAT IS A COMET?

There is still little actually known about comets, and hopes are high that Kohoutek will reveal secrets about the origin of the solar system and its composition. Stephen Maran of NASA contends that "comets such as Kohoutek may be our last remaining hope of finding samples of primordial solar-system material." Astronomer Daniel Bennett of Stanford states, "Kohoutek may offer secrets of the universe which will open whole new areas for future study."

The Naval Research Laboratory has stated that there is a "good chance" of finding a totally new molecular species which would consist of a combination of hydrogen, oxygen and hydrocarbons within the makeup of the comet.

Such knowledge must be a part of the New Age of Knowledge and Awareness which is dawning: We are reminded of the novel, *In The Days of The Comet*, by H.G. Wells, where cometary gas is depicted as the catalyst of a Golden Age!

Theory has it that comets are compact conglomerates of frozen gas and meteoritic dust; possibly scraps left over from the creation of the solar system. The exact composition depends upon their actual origin. Traditionally they are believed to have been formed near the outer planets Neptune and Uranus and thrown out of the solar system by gravitational forces. Billions of these bodies move around the sun on the fringe of our solar system. When one is deflected somehow, as by gravitational pull from a star, it veers toward the sun.

Another theory, recently postulated by cosmologist A.G.W. Cameron of Harvard College Observatory is that comets may have originated beyond the orbits of our planets; if so, they should contain matter from outside of our solar system.

It is believed that when they pass near the sun,

the warmth of the sun turns some of the more volatile material back into gas. This is what forms the huge cloud around the frozen head, which swells up to 100,000 miles in diameter. This gas and dust is then picked up by the "solar wind" of electrified particles pushing outward from the sun. This wind shapes the tail of the comet, which may be up to 50 million miles long. Note the 1456 illustration of Halley's Comet stretching across the constellations Cancer and Leo. This appearance was in July, while the siege of Belgrade was in progress; it is said to have discouraged the Turks, contributing to their defeat.

Comets become luminous only in the proximity of the sun; sunlight showing the gas and dust in the tail formation. The tail always extends away from the sun, in the direction the solar wind is "blowing." Kohoutek's tail will be leading the comet when it becomes most visible. Besides the tail of a comet, which does not follow its line of orbit, the actual orbit contains meteoric debris. This is not visible unless the comet enters the earth's atmosphere.

Halley called his comet a "Mercury among comets" supposing that it had the shortest orbiting time of any comet. However, it is known now that numerous comets have shorter orbits. Encke's Comet returns every 3½ years and like Halley's, is seen at every return.

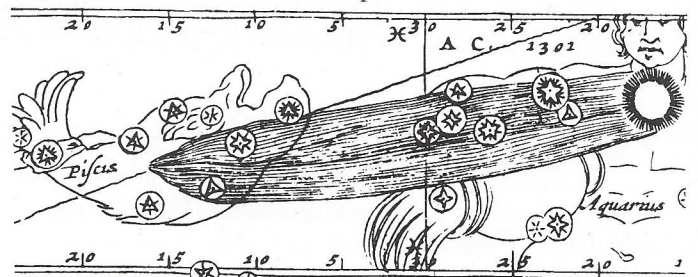
Halley's has been the only comet, however, that has been conspicuous to the naked eye. *Slendor Among the Heavens* tells us, "All the

other brilliant comets have such long periods that they have not been seen at a previous return since



VERIFICATION OF HALLEY'S PREDICTION IN 1759

An unknown French artist depicted an angel calling Halley from the grave to see the fulfillment of his prediction that the comet would return in 1759.



From "L'Astronomie."

An unknown comet that appeared in December of 1301, after the appearance of Halley's Comet in September of that year.

(Continued on page 16)

mede is always exactly equal to three times the motion of Europa. It is curious that the symbol for Jupiter resembles a 4, as if formed from a 1 and a 2. Math can be a key to the secrets of the universe. R. Buckminster fuller has shown that indeed 1 and 2 can equal 4, "one equilateral triangle hinged onto 2 others can be folded into a three-sided tent, whose base is a fourth triangle."

Music and universal vibrations offer an endless array of facts for contemplation. The rings of Saturn magnificently exemplify Newton's Law of Gravity and Kepler's Laws of Planetary Motion. Each of Saturn's rings has a definite speed of motion, with the inner parts moving eastward, opposite of the outer parts rotating westward. The size, shape, direction and movement of these rings are controlled by the gravitational influence of Saturn and its moons. The moons indicate that the key to the unusual harmonies and motions of these rings is related to their node. Astronomically a node is a line of conjunction between force fields. Musically a node is a zone of rest in a vibrating body.

We continually find the same laws of motion, mathematics, gravity, vibration and harmony existing between music and the celestial bodies. Any law that applies to one will apply to the other correspondingly, producing similar results.

HARMONY IN THE ATOM

The same laws are found to apply to the atom, as found by atomic physicist Niels Bohr. Bohr's theory published in 1913, visualized a sunlike nucleus surrounded by revolving planetlike electrons. He showed how Kepler's laws for planets applied to the atom, and that electrons could only move within certain orbits. This is a harmonic law.

The Bohr atom was pictured as containing seven shells, somewhat similar to the seven ancient planets and the musical scale, with the innermost shell accomodating exactly two electrons, the second eight, the third eighteen and so forth.

Any electron can jump from one shell to another if enough energy of some sort is applied. The shells are sized according to a simple rule of squares and one quantum of energy received makes one electron move up one shell. An electron may also move down, releasing energy.

VIBRATING WAVES

Evidence is now extensive that every atom is made up of waves that vibrate constantly within shell like limits of binding resonance between frequencies, again much like Saturn's rings.

Musical divisions which produce harmonics, do so by producing vibrations that are moving at a double or triple rate of speed. It wasn't until 1636 that French mathematician Marin Mersenne discovered that the

frequency of string vibrations varies directly with the square root of its tension, but inversely with its length and square root of its weight.

We find that wave ratios govern and shape waves of water, sand, snow, sea, atoms, molecules and all other forms of flowing energy.

The vibrations of musical notes have been scientifically measured, showing for example that "middle C" consists of about 262 pressure waves per second and that any regular vibrations at this speed will produce this note. This means that musical notes can be reduced to a number.

Everything, from the atom to molecules, crystals, organisms and objects, men and stars and the universe is vibrating according to natural laws.

An English physicist, Henry Gwyn-Jeffreys Moseley, found by x-raying the diffraction of most of the elements that there is also an order in the square roots of their vibration frequencies that conforms precisely to the periodicity of the series of atomic numbers; 1 for hydrogen to 79 for gold.

Indeed the square of Pythagoras was important. All of nature confirms the harmony and music of the spheres. Euripedes alludes to it: "Thee I invoke, thou self-created Being, who gave birth to Nature, and whom light and darkness and the whole train of globes encircle with eternal music."

LEARN TO LISTEN

The fine celestial harmony of the spheres is lost upon most of us today. We are instead surrounded by the constant roar of modern civilization. However, you can learn to tune into this music. The best time is at sunrise and sunset, for the beauty of these periods accompanies bursts of celestial music. Color also has sound relationships and a large part of the reason we respond to the magnificence of these periods is from our sub-conscious reception of the music of the spheres.

Listen in the early morning, listen to the freshened earth, the birds, the rustle of the leaves and draw in the new early morning energy. Seek the message and harmony of the new dawning day. This is when the music is most powerful.

Then listen at sunset for the parting melody as the sun passes over the horizon and attempt to tune into the message reflected in color on the sky.

Shakespeare refers to it:

"Look how the floor of heaven
Is thick inlaid with patines of bright gold;
There's not the smallest orb which thou behold'st
But in his motion like an angel sings,
Still quiring to the young-eyed cherubins;
Such harmony is in immortal souls;
But, whilst this muddy vesture of decay
Doth grossly close it in, we cannot hear it."

...CREATIVE COMMUNICATIONS —from page 7

with some flippant remark, which made it seem that he didn't regard the matter as of any importance.

This musician said he learned to adapt his music to the present mood of his audience; if they were depressed and melancholy he played somber mood music and very gradually advanced to more cheerful music. With those patients who were overstimulated, he reversed the order and gradually toned the music down, until they had quieted down. In both instances he started where the listeners were and gradually made the transition to accomplish the desired result.

Although we learn that appearances are often deceiving, until we are gifted with divine insight, we should adapt ourselves to conditions as they appear to be. We must start with people as they seem to be and when they change their attitudes, we can adapt accordingly.

GENTLE PERSUASION

In creating the right climate of understanding, we must not sit in judgement; evaluation for our own reaction is in order, but outward criticism either by word or attitude should be withheld. When we know that we are not the cause or target of someone's mood or hostility, we can stand aside and let him relieve himself of inner tension. Benjamin Franklin was master of the art of persuasion, because he suggested, never demanded. He was one of the finest diplomats the USA ever sent abroad, because he accomplished his mission by indirect persuasion, instead of direct coercion.

Many times by appearing to agree with his opponent, he brought the person around to his point of view so skillfully that the other person thought it was his own idea. To do this requires that one not be trying to exert his ego over another to build himself up. He must be sincere enough to move aside, encouraging the other person instead. Most criticism of others and fault finding comes from fault within others, and an emotional need to build up self, often at the expense of others.

It is not necessary to agree with another person in order to understand his feelings or beliefs. Many times a person will continue to argue a point he knows is wrong just to save face; he believes that to acknowledge error is to admit he is somehow inferior. You should never back anyone into a corner; always stand to one side and allow him room to escape gracefully.

None of us can put ourselves completely in another person's place, because of differences to numerous to mention, but we should develop a sincere desire to understand his viewpoint, not just wait to express ours. The desire to understand others should not be allowed to deteriorate into spying, prying or amateur psychoanalyzing. The sovereignty of each soul should be respected.

"NOBODY KNOWS"

"Nobody knows the trouble I've seen," is an old song that aptly expresses the way most people feel. If you are one of those people who who unfortunately clings

to hurt feelings long after the original injury, then it is time you sat down and had a heart to heart talk with yourself. The first injury may have been accidental and not our fault, but if we continue to pick at a scab a wound can never heal.

Shakespeare wrote, "All the world's a stage and men and women are merely actors." Many people lead ineffectual lives because they do not know which role they are supposed to play. They look about with uncertainty and often pick up lines and actions that belong to others. How can anyone be true to himself, if he doesn't know who he is or what his purpose in life is?

Very often parents bring about this confusion by thinking that a child belongs to them and in their ignorance and arrogance try to make the newly arrived soul a carbon copy of their desires. They may be frustrated with their own failure and become determined this child will accomplish what they believe their own mission in life was. Some mothers try to live vicariously thru their daughters and often fathers are determined a son will follow slavishly in their footsteps. Each soul is sovereign, fresh from the Spirit world and has its own mission to accomplish. Parents have a duty to perform; to cherish, protect, love and guide the developing body and soul, until the entity is able to make his own mature decisions.

We need to take the masks off of outer personality and discover our true individuality. Boredom, discontent, frustration and all dissatisfaction of a deep nature, are symptoms of the soul's failure to play its rightful role. Money, fame, popularity and all temporary delights cannot long satisfy any soul that has not found its true mission in life.

Every person, no matter how poor, weak, degraded or despised is unique and of great potential value. No two persons are exactly equal in fulfillment or expression and no one should be contented or discontented by comparison with any other person. The correct measure of a man is how he achieves his own potential and not how he excels over any other man, who may have an entirely different mission to accomplish. We should all try to complete ourselves and not compete with others.

Imitation may be a form of flattery, but it can lead us down false trails not intended for us. We can admire another man's courage and strength, but it doesn't mean we should walk in his tracks. Each must seek the direction of his own path.

EXPECT MISUNDERSTANDING

Just because we understand what we are saying, we can never assume that someone else will grasp our intended meaning. Words bring different responses from different people, because of varying backgrounds and experiences. We should never take for granted

that another person is dumb or stupid because he does not understand us immediately. Instead be prepared for misunderstanding, anticipate it and be patient in clearing it up.

A public speaker, such as myself, learns quickly that few people can concentrate for very long; their attention wanders and they catch a word here and there. Many of us are preoccupied with our own problems and only appear to listen when someone else speaks. If you have something important to say, make an effort to first gain you listener's attention. After you have communicated your message as simply and thoroughly as possible, check by asking leading questions. Don't be blunt, however, for this will put the listener on the defensive. He will assume you think he is dumb and an emotional barrier will be aroused. Instead actively engage his opinion or thoughts, so he takes a personal interest.

Adapt your language to the listener's; don't talk over his head, don't talk unfamiliar jargon and don't appear condescending by talking down to him. I have had speakers who deliberately used slang and made grammatical errors so the audience would think them "Just folks like you all." This may be all right if you are a comedian, but not if you have anything worthwhile to communicate. It is difficult enough to communicate on an intellectual level, without creating any resentments on the emotional level. We have an obligation to make an effort to avoid this.

KNOW THYSELF

KNOW THYSELF is the fundamental necessity for all individuals. If you truly know yourself you know all men and have made a giant set toward knowing God, for all are One. Jesus raised a most revealing question when he asked how man could love God whom he had not seen, if first he does not love his brother, whom he has seen. The search for God and purpose must begin with a search for yourself. This soul searching should, however, not be allowed to become an end in itself. Too many people try to withdraw from life; this is self-defeating and harmful. Man is not an island; he is part and parcel of a larger continent of humanity. Each soul must care what happens to others; there cannot be any true caring without sharing.

I learned many years ago that the best way to learn was to teach. If you want to gain more you must give more. You don't really understand anything until you are able to communicate it to someone else.

Communication is not only a two way process, such as between two people, we benefit directly by including God, for He can afford us a higher understanding and direct us in our effort to communicate on this plane. All of our abilities become magnified when we begin operating on this Universal Channel.

In order to communicate with God, you must first

of all know it is possible and that you can employ prayer as a channel for communication with God or Universal Intelligence. Those who fail to take advantage of this communication in effect disinherit themselves. When you turn your back on the sun you are bound to see your shadow; if you walk away from your companions, you will surely feel loneliness; if you reject the feast you will know famine.

Many people say prayer changes things, but this is a great understatement. First of all, if employed properly, it changes the attitudes of the person using it. You cannot change God's mind or make deals with Him, but you can adjust your attitudes, thoughts and emotions and become teachable, meek, loving and reachable.

ILLUSION OF SEPARATENESS

Many souls walk the lonely path unable or unwilling to communicate with others because they are under the illusion of separateness. They seem to feel that because they seem to be a separate personality, they must work out their problems alone. We realize that every individual is unique in degree; but not in essence.

The truly poised individual is the really humble one who not only recognizes his own uniqueness, but his common humanity. He is not afraid to submerge his own "personality" in a common effort, for he knows that he is still an individual even when acting for the common good of all. It is always the insecure, the uncertain and the unbalanced personality who clings to the illusion that he must seek the center of attention to gain acknowledgment or recognition and take care of himself first.

The developed individual respects the rights of others to be "different" because he knows he is also different in some respects from everyone else. He respects others because he first respects himself. We need to make an effort to communicate to others our mutual regard and respect for their own individuality.

No man ever walks alone or unnoticed. No thought, no idea, no action is without consequence. A permanent record exists of all sounds, thoughts, emotions and actions. We are continually leaving bits and pieces of ourselves wherever we go, whether we are aware of it or not. If we are communicating with others in a disorganized manner, with unknown affects, why don't we begin to deliberately and consciously plan our communications with loving creative intent. The results can only be beneficial.

We never know when we are having a direct influence on the lives of others. Many times we see only a scene of the divine drama, without ever knowing how the play ends. We can drop a pebble in a placid pond and watch the ripples widen, but we seldom know how far the ripples go in real life. We need to constantly make the effort to improve our communication with great care and loving intentions which seek to recognize the God in every man, including ourselves.

Astronomy became an exact science; they cannot be predicted, and take us by surprise when they come."

Comets have planetary families, meaning that the outer reach of their orbit crosses the path of a planet's orbit, which could be related to its origin. Jupiter has the most comets orbiting across its path. Tuttle's Comet belongs to the Saturn family and has a cycle of 13¾ years. The earth has encountered the orbit of this comet and encountered dust and fragments from its wake. Halley and another interesting comet known as Pons-Brooks belong to Neptune's family, the outer reach of their orbits crossing Neptune's.

After several months to prepare, astronomers are sparing no pains to gather data about Kohoutek. A.E. Lilly of Harvard is going to try to detect microwaves emitted from the comet. Richard Goldstein with his associates at the Jet Propulsion Laboratory will bounce a radar signal off of Kohoutek and measure the intensity of the returning echo to determine its composition.

In Boulder, Colorado Charles Lillie will make rocket and ground-based observations. Robert MacQueen of the High Altitude Observatory will make a detailed recording relating to the evolution of the comet and the Orbiting Astronomical Observatory and the Orbiting Solar Observatory will both take continuous photographs of the comet for six months. The New Mexico Institute of Mining and Technology is preparing a special observatory on the peak of South Baldy in New Mexico and the Laboratory for Aero-Space Physics will launch an observation rocket on January 9th.

The most impressive, and possibly the most important observations will be made by Skylab III, scheduled to be launched Nov. 10. The flight is expected to be lengthened from 56 days to over 85, allowing the astronauts to watch the comet while it is closest to the sun and most influenced by its radiation. Skylab will be in position to photograph the comet electronically. It is equipped with a sophisticated array of telescopes and a camera that detects the far-ultraviolet light that cannot penetrate the earth's atmosphere. Astronauts Gerald Carr, Edward Gibson and William Pogue are to take two spacewalks outside the orbiting laboratory, including one on Christmas Day.

Mariner 10 is due to lift off on Nov. 3, en route to Venus and Mercury. It will photograph Kohoutek from various positions millions of miles away from earth; combined with photographs from earth the first three-dimensional views of a comet will be made available. The unmanned Mariner 10 will also transmit TV pictures of Kohoutek. Pioneer 8, a satellite in orbit around the sun now, is expected to be in position in early January to transmit radio signals

through Kohoutek's tail, seeking more information on its composition.

According to Richard Tousey of the Naval Research Laboratory all of the investigations of Kohoutek will cost in the hundreds of millions of dollars.

THE EFFECT OF COMETS

As we have pointed out, since ancient times comets have been felt to signify calamity or disease, affecting areas, governments or regions ruled by the part of the zodiac or sign which they cross, with those parts suffering the most toward which the tail points.

Considering that their passage is directly affected by solar forces and electro-magnetic energies, from an astrological viewpoint, we must expect vibrational disturbance and resulting changes. Almost every conceivable illness of humanity and the earth has been attributed to comets. Kohoutek will appear in Capricorn; comets in earth signs are said to cause loss of crops, drought, famine, diseases, earthquakes and other disorders directly connected with the earth.

When Halley's Comet appeared in 1909-10 the death of King Edward is said to have followed 12 days later. At that time revolution also broke out in Portugal and the king fled to England. Predictions have been made that Kohoutek will herald trouble for the Capricorn ruled nations of India and Mexico. We can also expect the troubles around President Nixon to come to a head, as he is considered to be a triple Capricorn. Food problems, shortages and serious earthquakes can be expected to increase. Whatever the results, the appearance should be impressive. Any negative results would seem to be from man's misuse of his natural resources and abuse of the earth, while the positive knowledge gained could be considerable, now that man has advanced in his technology enough to benefit from the potential.

Kohoutek will appear as a morning star until almost Christmas, then it will be seen as an evening star, possibly until March. It will keep growing brighter until mid-January, at which time it will come closest to the earth. Around New Year's Day it may become visible during the day, ushering in 1974 in style, but with possibly ominous overtones.

It represents one more indication among many of stormy times ahead in the near future. The wise will be preparing NOW, as we have been encouraging our readers to do through thoughtful storage of essential supplies and food and by taking sensible financial precautions to limit the possibilities of losses. (see Autumn Equinox issue)

Let's all have a Happy New Year and keep it that way.

people who have had similar astrological configurations.

The analysis is being presented in an attractive black book embossed in gold with the subjects name and astrological symbol. It is retailing for



The Vortex Institute is now located at 5½ Mile Steese Highway up the hill on the left side of the road overlooking Fairbanks.

\$28.00 in the Denver area, where it is being made available in stores and beauty salons and advertised over radio and T.V. For further information write to: The Vortex Publishing Co., P.O. Box 426, Denver, Denver, CO 80203 or P.O. Box 73152, Fairbanks, AK 99707.

Lawrence and I expect to be in Denver for several months, or as long as is necessary to develop the program.

From this we anticipate the necessary funds will be generated to carry on the work in Alaska and to develop a computerized research center of our own, concentrating upon health, astrological diagnosis and natural disasters, earthquakes in particular.

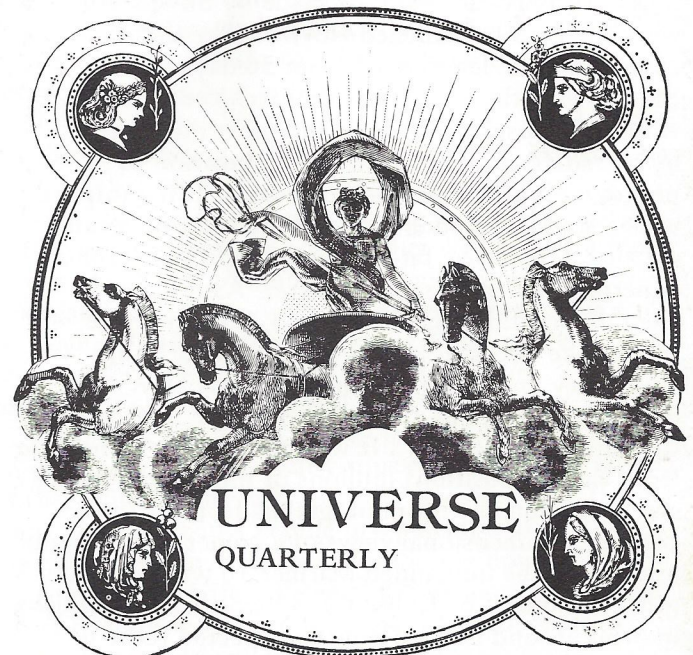
We anticipate a considerable increase in volcanic and earthquake activity through this century, and are currently gathering data and statistics to use in predicting possible earth movements. The faster we are able to develop the present work, the faster we will be able to do extensive research.

1973 has been a hectic year, because we have attempted to cram so much work into such a short period of time. It is difficult and time consuming for so few people to keep so many projects going and growing, but we should see a firm foundation develop within the next year to work from.

Volunteers are always needed to help out with the library, the magazine, letters and other correspondence, filing, typing, writing, teaching, the book source, and general encouragement. Contact Roblyn at (907) 452-5954 or myself in Denver at, 623-6261, Ext. 424.

We have changed the name of the magazine with this issue to UNIVERSE Quarterly. We have been seeking a new name for the magazine for some time, one that encompasses the spectrum of our work and teachings and would have some meaning to a casual observer of it anywhere in the world. We finally decided that Uni-verse accomplished those requirements. It speaks of Oneness (Uni-), it refers to the knowledge available to those who can read the celestial works, it implies all of the knowledge available to man and knowledge that is applicable to all men. It contains both spiritual and scientific connotations and is in harmony with our astrological and cosmological research. It is also short and concise and basically only one word, which we felt was important. We hope you agree.

The magazine remains a publication of the non-profit institute, and volunteers and articles are needed to keep it going, as well as contributions, as its only income is from donations, advertising and subscriptions, with donations basically covering the cost of its publication. If you like it and want to see it continue, please encourage subscribers, renew your lapsing subscriptions and help if you can in any way you feel you can. We feel the magazine is a necessary teaching medium for the institute and courses and studies will largely be developed through it, as all of the work expands. Blessings, love and Light for 1974.



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You can, by becoming a member of the Vortex Institute or by subscribing to "UNIVERSE Quarterly" (see below). The work of increasing awareness of Universal Consciousness is only possible through your active support and donations of time and monetary energy.

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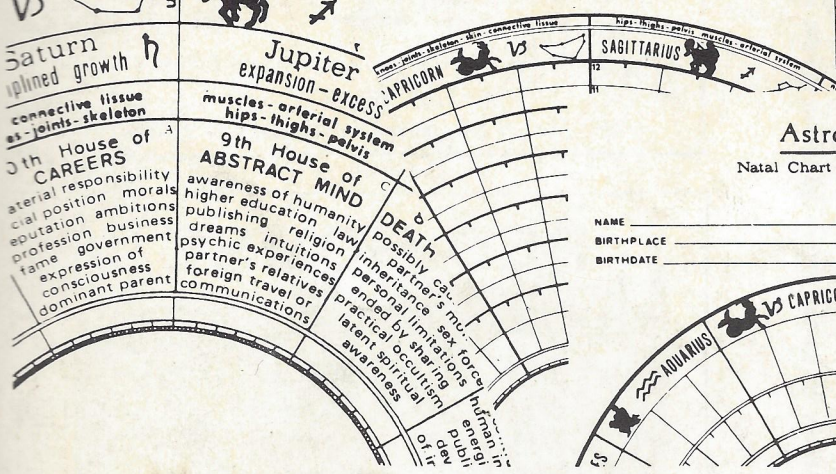
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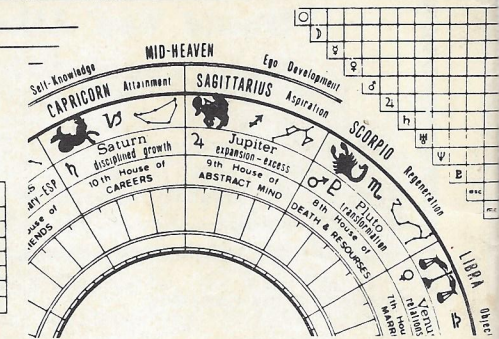
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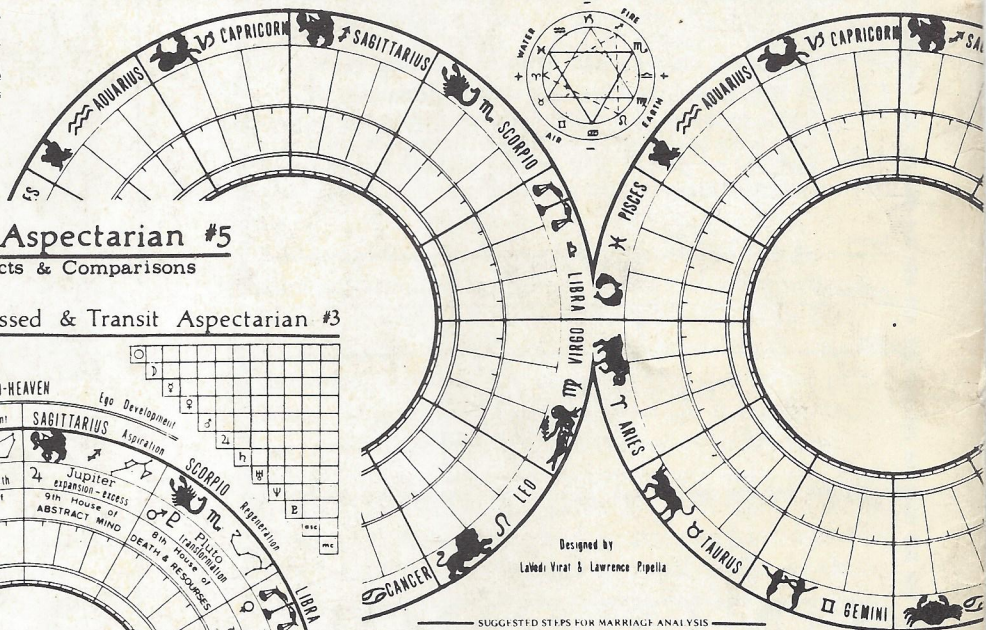
Planet	Detriments	Exaltation	Fall	Critical
♃	♌	♈	♏	0.13.26
♄	♌	♈	♏	9.21.18
♅	♌	♈	♏	0.13.26
♆	♌	♈	♏	4.17.17
♇	♌	♈	♏	0.13.26
♈	♌	♈	♏	0.13.26



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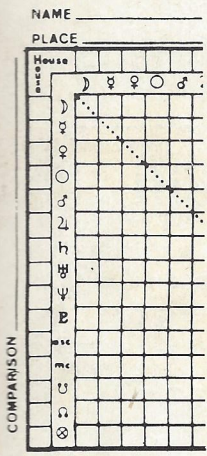
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 BIRTHPLACE _____ GMT _____
 BIRTHDATE _____ DATE TODAY _____



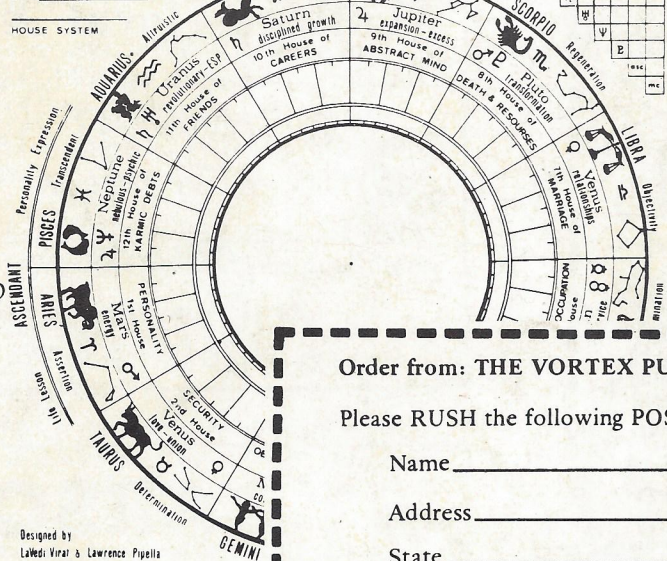
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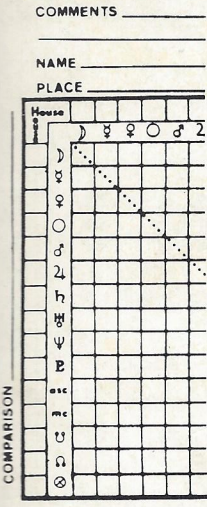


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 BIRTHDATE _____ BIRTHTIME _____
 GMT _____ DATE _____
 HOUSE SYSTEM _____



Planet	Detriments	Exaltation	Fall	Critical
♃	♌	♈	♏	0.13.26
♄	♌	♈	♏	9.21.18
♅	♌	♈	♏	0.13.26
♆	♌	♈	♏	4.17.17
♇	♌	♈	♏	0.13.26
♈	♌	♈	♏	0.13.26



ASPECTS	Exact Degree	Average Orb	STRENGTH & EFFECT
♃	0°	8-12°	Very powerful with reciprocal result
♄	30°	2-3°	Slightly favorable suggesting deceit
♅	45°	2-5°	Moderately difficult needing positive
♆	60°	6-8°	Favorable increasing opportunity & i
♇	90°	8-10°	Very difficult conflict, obstacle or m
♈	120°	8-10°	Highly favorable; directive, harmonie
♉	135°	7-5°	Slightly difficult suggesting positive
♊	150°	2-3°	Slightly difficult needing positive det
♋	180°	8-10°	Very powerful tension & separation o
♌	30°	1°	Powerfully similar to conjunction
♍	0°	1°	Powerful, similar to opposition

- SUGGESTED STEPS FOR MARRIAGE ANALYSIS
- Place man's natal chart in first center ring and woman's in second ring, sign to sign with man's.
 - Determine positive and negative values of each chart as follows:
 Positive chart has Sun, Mars, Saturn or Uranus prominent, with most planets in positive signs.
 Negative chart has Venus, Neptune or Moon prominent, with most planets in negative signs.
 - List and evaluate as follows:
 Both positive is unfavorable unless complimentary, as both will be assertive.
 Both negative is likely to be ineffectual, as both will be unmotivated.
 Man positive-woman negative is ideal with favorable aspects.
 Woman positive-man negative necessitates favorable aspects or man will suffer.
 - Compare aspects by aspecting each of man's planets with all of woman's on separate aspectarian, using only major aspects and short orbs. Analyze strong aspects as is usual, especially considering the 5th and 7th houses and their rulers, the man's Moon and Venus and the woman's Sun and Mars.
 - Proceed with transits in third ring and with progressed comparison or marriage date in second blank.

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