

T O P S I D E

December - 1960

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10 Lotta Street, Ottawa, Ontario

The opinions expressed in this publication are those of the authors and are not necessarily those of the Ottawa Flying Saucer Club

ARE WE ENTERING - OR LEAVING?

by W.B. Smith

With atomic energy we are crossing a threshold, but are we entering or just leaving?

Much has been said and written about the awful devastation which could be caused by an atomic war. It has been suggested, and with just cause, that such a war probably would wipe out civilization, leaving the remnants of the human race in atavistic savagery, if there were any remnants. Dr. Hugh Keenleyside, former Under Secretary of State for External Affairs for Canada estimates that there are in existence at the present time more than 150,000 nuclear devices, many more than required to do the job!

Consider what happens when an atom bomb explodes. The fission process which comprises the explosion releases enormous quantities of energy which originates within even the hottest star. If only ten per cent of the energy available in Uranium 235 or Plutonium were suddenly converted into heat, the temperature of the mass would jump to the order of fifty billion degrees centigrade. Even if the blast were diluted by five hundred times as much inert material as there was active material, the temperature would still be of the order of one hundred million degrees.

Now, the temperature of the sun, as we determine it, is about six thousand degrees on the surface and about ten or twenty million degrees in the interior. It is presumed to derive its energy from the conversion of hydrogen to helium through an intermediate cycle involving carbon, oxygen and nitrogen, which cycle progresses very smoothly at the sun's temperature. If, however, the sun's temperature were much higher the hydrogen could convert directly, first into deuterium, tritium, and helium, without benefit of the time delay and stabilizing action of the carbon-nitrogen-oxygen cycle, and would produce most probably an explosion of increasing magnitude which would continue until it either ran out of hydrogen or the eventual expansion of the gases produced a sufficient drop in temperature to stop the reaction.

Cont'd.

Suppose that an atom bomb (either fission or fusion type) landed in a large body of fresh water such as one of our Great Lakes, and furthermore, that it went to a considerable depth before exploding. The explosion, when it did take place would be confined by walls of water consisting largely of hydrogen, since two thirds of the atoms in water are hydrogen. Before the clouds of hot gases resulting from the explosion could overcome the inertia of the water and rise to the surface, it is almost certain that the water directly in contact with the blast would be heated to temperatures comparable with that of the blast itself, one hundred million degrees or better. At such a temperature the hydrogen in the water would be in prime condition to convert directly into helium and would in fact become a "hydrogen bomb" with the release of about the same or greater energy per unit mass as was released from the fissionable material of the bomb itself. Consequently, a thermo-nuclear chain reaction would probably set in which would be cumulative and self-propagating. Once initiated it would continue increasing in intensity until stopped by either a lack of hydrogen or the eventual drop in temperature of the expanding gases. In any case the reaction would probably persist until most of the available hydrogen had gone up in helium.

Should such a thing happen, even by accident, and an atom bomb explode deep in one of our fresh water lakes, with thousands of tons of hydrogen available, there could result a blast of such intensity that it would engulf the entire planet in a few seconds, vaporizing everything on its surface and maybe even shattering the core, and producing a celestial display visible throughout our galaxy. Unfortunately, we would be in no position to observe it as we would have ceased to exist.

The foregoing is not idle speculation. It is based on the same data, calculations and measurements which produced the atom bomb, and the fact of this bomb is quite testimony to its potentialities. We may call our civilization the "atomic" - we are crossing the threshold, but are we entering or just landing?

R. F. G. HALL, MONTREAL, QUEBEC

Described by Mr. L.A. Christink

The object was sighted on the 26th of October, 1960 at approximately 7:15 p.m., west of the city of Quebec, on the Quebec side of the Ottawa river. The object appeared very high and crossed the river towards Ontario. The sky was clear, light and the color of the object was a glowing yellowish orange. The shape of the object, including what appeared as a vapor trail or exhaust, was that of an elongated egg. The shape of the object and the fact that the vapor trail did not linger at all made it appear entirely different from a usual jet aircraft sighting. No sound was heard, due to vehicle noise and possibly the height of the object. The object travelled too fast to have been a weather balloon and was visible for approximately twenty-five minutes. Two persons witnessed this sighting.

ED. STEVENS

By J.R. Buchanan

About half past ten on the night of April 15th, I was flying an RCAF Harvard Aircraft in an area some fifteen miles east of the city of Ottawa. I had completed a cross-country flight and was just putting in time until eleven o'clock when a very intense flashing blue light caught my attention.

It was a very dark night with no visible horizon and I could not immediately decide whether the light was on the ground or airborne. By its intensity I thought it might possibly be someone operating an electric arc welder. However, at that point a commercial aircraft proceeding east along the airway from Ottawa to Montreal passed below that light and I realized that it must be airborne.

I started towards it and the light moved off towards the east, gradually climbing and flashing on and off at a frequency of about once per second. I followed it to 8000 feet at a point near Vankleek Hill but was unable to close the gap as the light continued to climb and outpace my slow aircraft. Realizing I'd by late checking in at Rockcliffe and that the chase was a bit futile, I broke off and, using my extra height to gain a little speed, set course for base at about 200 knots.

About ten miles out and at a thousand foot altitude I called the tower and received landing instructions. Turning to join the traffic pattern I glanced over my shoulder and was rather startled to see the flashing light just behind my aircraft.

I lost sight of the UFO during the landing procedure and on taxiing in could not again locate it. I could not judge its size or distance although it appeared to be quite close during most of the chase. No structure nor physical detail was visible at any time.

NEW PRINCIPLES IN QUANTUM MECHANICS, A REVIEW

W.B. Smith

Dr. H. C. Dudley, Chief of the Radio-Isotope Laboratory at the U.S. Naval Hospital in St. Albans, N. Y., has had the courage to challenge the methodology of modern science in his new book, NEW PRINCIPLES IN QUANTUM MECHANICS, Exposition Press, New York. The following extracts will do more than any reviewer to set forth this challenge.

"The key to how scientists have misled themselves, and therefore the rest of mankind, is in the wedding of Mathematics and Philosophy, and their adoption of the infant Science circa 1800. In the following four chapters is given an analysis of the mental processes which have led us to conclusions that are so firmly embedded in our consciousness as to be considered "scientific truths". Yet these truths have never been observed by any man. Strange creatures, We Homo sapiens!

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So at the fantastic, the frightening aspect of this very human fault is that those who are so wholeheartedly accept the philosophical-mathematical explanation of the universe and its working parts do not see the lack of factual data which originally permitted the development of this school of thought. Most have never read the original papers or popularized articles, easily available in English, translations, of Lobachevsky, Riemann Lorentz, Fitzgerald, Minkowski, Weyl, Einstein. Modern students have not unemotionally examined the unprovable, unmeasurable propositions that are the bases of modern physical theory.

"The experimentalist does not comprehend how the philosopher has supplanted data-taking by mathematical symbols and manipulations. Much easier to compute than to experiment and secure accurate data!

"There were some men who lived during the development of the basic postulates of modern theories who doubted the logic on which they rest. Moreover, these men resented the use of the promotional methods of the market place, which were blatantly used to fasten on the minds of men, at all levels of culture, what many considered to be a false scientific doctrine. Certain of these men, having the courage of their convictions, published books reporting on various aspects of the situation as they saw it at first hand.

"To dismiss all such publications as the work of crack-pots, as the railings of "cranks rebelling against the father-image of established authority", is to belittle the work of technically trained men of high renown, respected in their fields of specialization. In order that students of the physical sciences may know that there were (and are now!) other views in fundamental physical theories than are presented in recent physics texts, there follow reviews of the more pertinent of these works.

"Because scientists, mathematicians, and philosophers have for centuries wrestled with the idea of an absolute, mathematicians have mesmerized themselves into believing that by setting up two frames of reference they have in some way eliminated the need for an absolute plane or point of reference. But by the system of two frames of reference they establish the most unstable of points of reference, man his-self. Suchegotism!

"If there is, or ever was, such as a device of the devil it is the mathematical concept of two frames of reference. For in following this Piel Piper mathematician and theoreticians actually describe two entirely new planes of existence, worlds built of imaginary geometries and mental operations. They have thus indeed deluded themselves into believing that "man is the measure of all things, and there is no other measure".

"Thus again we see how the minds of men, be they scientists, mathematicians, or philosophers, can be swayed by emphasis and selected data. The techniques of modern advertising and propaganda are centuries old, and under any other name are especially effective if their devotees are convinced they are right.

"In reading the popularized histories of relativity, one notes that when the Theory of Relativity was first propounded, only a dozen or so persons had the mental stature to understand the theory. Tacitly, and subtly, it brought out that these intellectual giants were so far removed from the garden variety of scientists who objected to the theory that the criticism was but like the babbling of children. It is here that we see the beginnings of the most successful and sustained application of the "big lie" propaganda technique that men has ever foisted upon himself. Repeat! Repeat! Repeat! Ignore or belittle criticism. Those who do not agree will pass. And a scientific "fact", a "truth", becomes fastened in the minds of men at all levels of culture.

"Consider also that the eminent German mathematician Hilbert once defined mathematics as a game played, according to certain rules, with meaningless marks on paper. The following is addressed to the professional mathematicians: You have developed many complex games, played with many unintelligible marks on paper. You have invented many new games utilizing many "markers", "checkers", or "men". You have changed the rules of the game at will, and often in the middle of the game. You, the professionally trained mathematicians, are the only men who really understand what you are doing, and for that reason most men stand in awe. Your vanity is tickled, and you have found the answer for that human urge, a feeling of superiority. You have acquired "status".

"There are some of you who doubt where you are heading, but the great, great majority are convinced that your course is correctly plotted. Are you prepared to accept the responsibility, should your navigation prove faulty? The experimenter, too busy being a high-level technician and gadgeteer has entrusted his leadership to your hands. He is dealing not with marks on pieces of paper, but with forces that are beyond your comprehension, unless you have actually observed a nuclear explosion. Are you and your craft prepared to stand before the bar of history and defend your present position?"

Part two of Dr. Dudley's book deals with the consequences of the postulation of a particulate universe and the fact that such a universe would be quite consistent with that within which we live, and incidently, not nearly such a mathematical monstrosity.

It is unfortunate that Dr. Dudley, did not understand, or was not prepared to accept the fact of the field nature of Time, because this concept combined with the excellent work set forth in this book would have rounded out the picture and offered a very much simpler, more readily understandable, and probably more realistic representation of the universe in which we live.

For anyone who has sufficient scientific background to appreciate these things, this book is highly recommended. It is most disturbing, but may be we ought to be disturbed.

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C. G. Jung's "Flying Saucers"

Reviewed by Geoff Hoppett

I read a short piece from a newspaper last summer which quoted the authority of C. G. Jung's book "Flying Saucers" for the statement that UFO's were collective fantasy caused by the troubled state of the world today. Saucer enthusiasts, the writer added, were up in arms about the views expressed in the book. I am a saucer enthusiast. I was not up in arms. I had not read the book. My first reaction to the article was to challenge any special correspondence between UFO's and troubled times. My second reaction was that I had better read the book. I did so at the first opportunity. And after reading it once I read it through a second time. And I now confess that I didn't understand it - either at the first reading or at the second reading.

C. G. Jung is a very famous analytical psychologist. His book has been translated into a kind of English that I believe to be the peculiar and special technical language of the psychologists. It is full of five dollar words whose ordinary meanings and associations may be well understood by the layman, but whose psychologist's meanings are easily misunderstood. I was out of my depth but I didn't drown. I returned to solid ground with a few samples. The first sample must have been the bit that the newspaper writer read.

"..It is quite right that they should meet with ... open rejection, and if anyone should see behind them nothing more than a phantasm that deranges the minds of men... he would have nothing but our sympathy. Indeed, since conscious and unconscious fantasy, and even mendacity, obviously play an important role in building up the rumor, we could be satisfied with the psychological explanation and let it rest at that."

Perhaps the newspaper writer stopped reading at that point. The next paragraph goes on like this:-

"Unfortunately, however, there are good reasons why the UFO's cannot be disposed of in this simple manner. So far as I know it remains an established fact, supported by numerous observations, that UFO's have not only been seen visually but have also been picked up on the radar screen and have left traces on the photographic plate. I base myself here not only on the comprehensive reports by Ruppelt and Keyhoe, which leave no room for doubt in this regard, but also on the fact that the astro-physicist, Professor Menzel, has not succeeded, despite all his efforts, in offering a satisfying scientific explanation of even one authentic UFO report. It boils down to nothing less than this: that either psychic projections throw back a radar echo, or else the appearance of real objects affords an opportunity for mythological projections."

So it seems that Jung is not the arch-enemy of the "saucer enthusiasts" after all. In actual fact the author points out that his primary purpose was to treat the UFO's as a psychological phenomenon. While recognizing the fact of the physical and actual appearance of UFO's he is not specially concerned with that side of the subject. In various chapters he discusses the occurrence of UFO forms in fantasies of mentally disturbed people, in modern painting, in ancient painting and in dreams. He has done his homework on the literature of the subject and his comments on some of the books published could be pretty close to the truth. I will close this review with one more sample showing that C.G. Jung's point of view is, perhaps, not quite as orthodox as many people might expect.

"... It is ... my conscience as a psychiatrist that bids me fulfil my duty and prepare those few who will hear me for coming events which are in accord with the end of an era. As we know from ancient Egyptian history, they are symptoms of psychic changes that always appear at the end of one Platonic month and at the beginning of another. They are, it seems, changes in the constellation of psychic dominants, of the archetypes, or "gods" as they used to be called, which bring about, or accompany, long-lasting transformations of the collective psyche. This transformation started within the historical tradition and left traces behind it, first in the transition from the age of Taurus to that of Aries, and then from Aries to Pisces, whose beginning coincides with the rise of Christianity. We are now nearing that great change which may be expected when the spring-point enters Aquarius. It would be frivolous of me to conceal from the reader that reflections such as these are not only exceedingly unpopular but come perilously close to those turbid fantasies which becloud the minds of world-improvers and other interpreters of 'signs and portents'."

MAN MUST PREPARE TO MEET RACE OF SUPERIOR BEINGS

from Science Digest - March 1961

A report prepared for the National Aeronautics and Space Administration recommends that mankind had better prepare mentally for the discovery of life on other worlds.

The report drafted by the Brookings Institution warns that such a discovery could cause the earth's civilization to collapse.

"While discovery of intelligent life in other parts of the universe is not likely in the immediate future, it could nevertheless happen at any time," the report stated.

An all out attempt to contact intelligent beings on other planets could lead to sweeping changes, perhaps even the down-fall of civilization itself, the report stated.

Even on earth, it added, "societies sure of their own place have disintegrated when confronted by a superior society, and others have survived though changed."

"Clearly, the better we can come to understand the factors involved in responding to such crises the better prepared we may be".

PHENOMENON PROVES REAL POWER FOR AIRMEN

From the Montreal Star

TCA Captain C. Ward is trying to find a plausible natural explanation for a spectacular flash of "aurora like" color-play witnessed by him and several other fliers in the air over eastern Canada and New York State Saturday evening.

Captain of Flight 455, Mr. Ward said he first saw the phenomenon within two minutes either way of 5:39 p.m. EST" and that it lasted about 20 minutes.

Flying in the vicinity of Bagotville on a run from Seven Islands to Montreal, he first noticed what seemed to be a circular aurora, reddish in color. Above the centre rose "diffuse white cloud formation". The whole configuration became brighter towards the centre, then radiated outward to its periphery "almost like an explosion."

Captain Ward is certain he saw what he claims, because he established contact with a Lufthansa jet in the vicinity, the captain and officers of which corroborated his report. He says that he and Lufthansa flight 420 were also in contact with an unidentified CF 100, which substantiated the sighting.

Also, the personnel aboard a TCA flight over Albany, N.Y., communicated to Ward that they too saw the aerial display, but that to them the centre seemed to be orange, not red.

Cont'd.

Added to the reports from the three other planes, the operator at the Quebec City airport tower also confirmed the brilliant lights.

Ward said that the original red centre, flashing radiating rings that rippled brilliantly for about two minutes, reaching two distinct dimensions, soon gave way to a steady red glow, which faded after about 20 minutes.

Captain Ward, who knows that he wasn't just "seeing things" because the substantiation of at least nine (9) other people in the varied locations, is all the more puzzled, since there had been no public report of the occurrence.

UFO SITED OVER OTTAWA

A small shiny and silvery metallic object was observed flying at high altitude in "jerky" motions above the Experimental Farm on the outskirts of Ottawa, Ontario. The object was sited from approximately 3.45 to 4.00 p.m. on October 10th, 1960. The observer was located near the intersection of the Baseline Road and the Prescott Highway. The object was first seen in the east and travelled towards the northwest horizon.

CIVIL AUTHORITIES WANT PROOF

Ward has reached Ottawa, from a German language newspaper, via our Vice President and translator, Mrs. Ann Hardy, that legal action has been initiated at several centres in West Germany against UFO researchers and in particular, those claiming to be contactees. Following the Fourth International UFO Congress at Wiesbaden in October, 1960 the office of the Attorney of State in Munich started an investigation aimed at establishing proof of the reality of UFOs and visiting space people. Charges of false pretences and suspected fraud have been laid against Mr. Karl Veit, director of the German UFO Study Group and the claims of Mr. Reinhold Schmidt and Mr. Carl Anderson of the U.S.A. are being investigated. These two gentlemen were among those who gave accounts of their space contacts at the UFO Congress.

A call has gone out from German researchers to anyone having proof of the reality of UFOs to come forward. The question remains, What constitutes proof acceptable to a court of law? Perhaps a saucer with a full set of operating instructions would meet their requirements, but even this might be regarded as further evidence of fraud.

TRANSFORMATION OF EARTH INTO SATURN NUMBER TWO

Climatic Changes Through Spherical Dust Orbits in Space.

Will our earth, observed from the space prospective, soon look like the Planet Saturn? A Russian Scientist has proposed to change the earth climate by conveying over two million tons of dust into circular orbit some 1600 kilometers from the surface of the earth. The dust-rings, similar in appearance to those on Saturn, are to reflect additional solar energy to the earth. The reflection energy is supposed to be most powerful in the Northern Hemisphere, and most effective in the Arctic and Sub-Arctic territory.

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SUMMER EDITION

1961

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WE ARE NOT ALONE (1)

*Topside
Summary*

(2)
W.B. SMITH

Our Universe is a very large place, much larger than our minds are capable of understanding. There are several billions of stars in our own Milky Way Galaxy alone, and there are millions of similar galaxies scattered throughout space and within range of our large telescopes. The Universe is also incredibly old. Our earth alone is estimated to be several billion years old, and it is presumed that the stars are much older. Maybe the universe doesn't even have an age; that it is eternal and ever passing through the cycle of energy to matter and matter to energy. The episode of Man on this planet, so far as we can determine, is relatively an extremely small portion of the larger time that the universe has existed, and the period of recorded history is relatively even shorter.

We consider the race of Man to be native to this planet and to have evolved here from lower life forms. We look upon our present civilization with pride and realize that we have accomplished much, particularly in the last few centuries. Even in the past few decades we have made tremendous progress in certain directions. Therefore, it is only natural that we should be egotistical about our position in the Universe. But are we alone? Are there not others in the Universe who, also, have progressed? The Universe is very large and has been here a long time.

In the last few years we have taken our first faltering steps out into the vastness of space, first through the Sputniks and now through manned space flight. There is now no doubt that we can do it, and if we can refrain from blowing ourselves to glory with atom bombs, we most certainly will do it. In the light of our present technology, and not allowing for any basic new discoveries, our timetable calls for inter-planetary space travel well before the year 2,000, and a good possibility of inter-stellar trips being initiated shortly thereafter.

Our space travel plans include exploration, exploitation and colonization, of the other planets, so far as this may be possible, and there is no doubt that this thinking will be extended to the planets attached to other stars as soon as we can arrange to get there. Mankind has always been an adventuresome creature, exploring, conquering, colonizing and exploiting, and there is little reason to think that his future actions will be much different from those in his past.

- (1) This paper was given as a talk to the Kinsmen Club of Ottawa, at a dinner meeting on May 25, 1961.
- (2) W.B. Smith, B.A.Sc., M.A. Sc., P.Eng., Superintendent, Radio Regulations Engineering, Department of Transport, Ottawa.

Our large telescopes indicate low order perturbations in the positions of several of the nearer stars, such as could be accounted for by the presence of large planets, and if there are large ones there will probably be smaller ones also. In fact, it is generally agreed now that planets attached to stars are more probably the rule than the exception, and that we will eventually find the heavens filled with all sorts of primary and secondary bodies.

When we consider the extent, the age, and the opportunity of the Universe, and the fact that we do have intelligent life here on this planet, it is only reasonable to speculate that somewhere else in the vastness of space and the eternity of time, other intelligent life could have blossomed forth. Since we have made such rapid progress towards space travel in such a short time, a differential of only a few hundred or at most a few thousand years between the development on some other planet and ours could easily have resulted in a race capable of doing right now what we plan to do in the near future. Furthermore, it is quite possible that such a race may have reached this critical point eons ago, and to them space travel is as commonplace as the wheeled vehicle is to us.

Now, if this should be the case, and this alien race were anything like us, they would probably set forth to explore and colonize as rapidly as their means would permit. It is rather obvious that, even with the speeds of travel available to us, it would be much quicker to colonize the universe than to wait for Nature to evolve separate races in each and every favourable environment. In fact, intelligent races might even set about accelerating environmental conditions to their liking, seeding and stocking planets with appropriate life forms, and watching over them while they developed.

The foregoing is not just idle speculation, since we have a great deal of evidence that something like this is actually happening. The Darwinian theory of evolution shows certain relationships between the various life forms which inhabit this planet, but there is very little evidence to indicate that they all evolved here. Maybe some of them did, but a more reasonable explanation is that they were brought here when the planet was in suitable condition to receive them. Recent spectroscopic observations of the reflected light from Mars shows the presence of vegetation which synthesizes sugar, thus making it closely related to much terrestrial vegetation. Radio telescopes are picking up all sorts of radio noises from the sky, many of which are so systematic as to preclude natural origin. Peculiar markings, light flashes, and cloud or dust formations have been seen on Mars and our moon. And, most significant of all, the craft of these alien beings have been seen near, and on, this earth!

Legends and history abound in stories of visits to this earth by beings from the sky; beings which came in strange craft capable of the most extraordinary performance, and who themselves possessed great powers or had at their command strange forces, much beyond the understanding of the simple folk who witnessed these things. There is much evidence that this has gone on all through the ages, and is going on right now. With the excellent news gathering and

desseminating means at our disposal, very little happens anywhere in the world which is not reported, and, if it is of sufficient interest, gets wide publicity. During the last ten years or more there has been much publicity about "flying saucers" and thousands of reports have been made of sightings of these strange objects in our skies. But this is not an exclusively recent phenomenon; only the publicity is recent. Ever since we have had newspapers there have been similar reports, but the absence of news services until recent times usually confined the details to a few local papers, and searches of old newspaper files confirm that flying saucers are old stuff.

The tense international situation in recent years has made everyone jittery and anything in the skies which could not be established as known and friendly was regarded with suspicion. Consequently, procedures, projects, and publicity combined to make the whole subject of flying saucers appear quite out of perspective. Instead of recognizing them for what they probably really were, they became a ward of the Military, and since the Military are charged only with the defence of a country, their interests waned when they had established the fact that the saucers apparently were not hostile. But in order to arrive at this conclusion they collected much data, classified it, and buried it so effectively that no one else could get at it, and those who might have been able to sort the matter out found themselves deprived of the basic data and had to content themselves with the bit which escaped the clutches of the Military. However, on the basis of this material some rather startling conclusions have been reached.

Thousands of people have seen lights and apparently solid objects in the sky which behaved as no light or object normally seen in the sky ought to behave. Thousands have seen these objects under circumstances which enabled them to say definitely what they were not, even though they were unable to say what they were. Reliable photographs and movies have been taken, and bits of "hardware" collected which cannot be explained away without challenging the integrity of many witnesses. Simultaneous visual sightings and radar fixes exist in a great many cases, and there is quite a bit of evidence of physical contact with these strange craft.

In several instances reliable people have reported seeing the beings who ride about on these craft, and they say they look just like us. There are quite a number of reported contacts between these people from "elsewhere" and people of this earth, and although this latter point may be hard to prove it is equally hard to disprove, and the results of these contacts are remarkably consistent and enlightening. At the present time there are quite a number of books, magazines and bulletins devoted to the study of flying saucers, and anyone who wishes to establish for himself the validity of these things will find no dearth of material.

At this point we may summarize the position somewhat as follows. There is virtually no doubt that alien craft are visiting this earth, and that

the beings who operate them are very much like us, probably our distant relatives. Considering the age and extent of the Universe, it is reasonable that space travel, exploration and colonization, may be quite commonplace among races of mankind more advanced than we are. Information obtained through alleged "contacts" confirm the general nature of the picture as presented herewith, together with quite a bit of interesting side-lighting on the technology, customs, way-of-life, and philosophy of these people from "elsewhere". It would appear that we are well along the way to becoming truly civilized, and if we can refrain from committing racial suicide and learn to respect the dignity, divinity and brotherhood of man, we can expect eventually to be welcomed into the great cosmic fraternity of advanced races that inhabit the regions beyond the limits of this little planet.

DONATIONS FOR TOPSIDE

We have received a few donations from friends who wish to have their names added to the club mailing list. While there is no charge for "Topside" these donations will certainly help defray the expenses involved and are greatly accepted with many thanks to those most thoughtful people.

From the Ottawa Citizen - Thursday, June 29, 1961
By Billy Graham.

Dr. Melvin Calvin of the University of California, a world-renowned scientist on the chemistry of life, said recently that there are living beings, many of them far more advanced than humans, existing on millions of other planets throughout the universe.

While there is nothing definite in the Scriptures, yet there are many indications that Dr. Calvin is right, God did not bring our world into being without a purpose. Isaiah the prophet said, "For thus saith the Lord that created the heavens. God himself that formed the earth and made it, He hath established it. He created it not in vain. He formed it to be inhabited. I am the Lord and there is none else".

ANOTHER UFO?

About 25 minutes to six on December 10th, 1960, Brian Buchanan and his chum Ian Robertson were walking down Skead Road on the eastern city limits when Ian's attention was drawn to a light in the southern sky about 30 degrees above the horizon. The object appeared to be a disc and as he watched a reddish cloud appeared to emanate rapidly outward from the disc to about three to four times the diameter of a full moon.

Unable to identify this phenomena Ian pointed it out to Brian who confirms that he saw what appeared to be a white disc tilted to present an elliptical appearance, surrounded by the cloud. He estimated the size of the disc at about a third of the moons diameter. As they watched the disc moved out of the centre of the cloud at an angle of about 75 degrees to the horizontal started to grow dim. By the time it had moved clear of the cloud it had faded from view. The cloud remained visible while they walked

about half a block then it started to gradually fade. Suddenly at a point about 60 degrees elevation and a little to the east of the original sighting a red light appeared. It rapidly expanded to form a circular glowing arch having relatively well defined edges a bit less than the diameter of the moon. This phenomena persisted from first observation for about 5 seconds when it vanished almost as though someone had turned off a light with a rheostat. The original cloud was visible but fading. About a minute after the second light had disappeared a third became visible on the same bearing about 45 degrees above the horizon. This took the form of a rather dim red light which grew rapidly rather like a smoke ring. As the ring expanded the centre grew dim. This went on until by the time its diameter had exceeded that of the original cloud somewhat, it had become so attenuated that it was lost to sight. Shortly after the original cloud also faded from sight. The sky in the area of these activities was cloudless but rather hazy as only a few of the brighter stars were visible.

THE END

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GRAVITATIONAL SPECULATIONS

When some of the ancient Greeks deduced that the earth was round their ideas were unacceptable because they were quite unorthodox in relation to the thinking of that time. It was not till about two millenia later that those early ideas were proved correct and are now generally accepted.

The ancient Greeks and many others must have wondered about gravity or why things had weight. In the last three centuries, Newton and many others have considered the problem. Yet, though the laws are well known, no modern text book explains the "why" of gravity in simple terms.

If an explanation of gravity had been produced which fitted the general ideas on the subject, it is fairly certain that the reason for the pull of gravity would now be described so clearly in the text books that every schoolboy would understand it perfectly.

Many, many scientifically minded persons must have given the subject considerable thought. From the fact that none seem to have been successful except at the super-mathematical level, we can hazard a guess that the true answer is not to be found in the direction of orthodox thinking and may therefore prove to be quite incompatible with ordinary orthodox ideas on the subject.

If the real answer contains unorthodox features, will not history repeat itself, and as in the case of the "round" earth, the "wise men" of the day reject the suggested explanation? George Louis LeSage (1724 - 1803) seems to have bumped into that kind of trouble with an unorthodox explanation of gravity. A newer one developed in 1950 (about 2 centuries later) by P.G.A.H. Voigt, which has recently come to our notice, seems to have fared no better. Is it possible then that promising explanations of gravity already exist but have not gained general acceptance because of their unorthodox features? Is history repeating itself once more?

We did not hear about these possible explanations of gravity until a copy of GAUSS for May 1960¹ was brought to our notice. In this, an article entitled "Gravitational Theory from England" discusses Mr. Voigt's hypothesis and compares it with earlier suggestions of LeSage etc.. The following extracts from that article are reprinted by permission:-

"Those who were at the Gravity Research Foundation's meeting last August will remember that Mr. P.G.A.H. Voigt, spoke for a few minutes debunking Sir George H. Darwin's 1905 refutation² of the LeSage theory of gravity. For over 10 years now, Mr. Voigt, who is an Electrical Engineer, has made a side-line study of the unknowns of science, including the structures of gravitational, magnetic and electrical fields, the mechanism "behind" the Law of Gravity etc. He was a pioneer in the development of British Electrical (Electronic) sound recording systems in the 1920's and was invited to address the British Sound Recording Association on the occasion of their 21st anniversary in September 1957. In the course of that address, he mentioned those side-line studies.

He has sent us the full text of the address to the B.S.R.A. and has given us permission to quote the mid-part which relates to gravity. This reads: "In 1946-7

Such
To
Pull
or Push

as you may remember my health broke down and I was nearly paralysed. Except for the fact that I still have to rest a great deal, things are not normal..... Had it not been for the rest periods necessitated by my illness, that scientific work would never have started.

"This 'intrusion' into my life began on the 7th of January 1950, when, during one of my rest periods.....I started thinking about the unknowns of science

"When I started exploring the unknowns of science, I found myself in a wonderland of strange and unexpected things, a region where nothing made sense unless you first abandoned most of what you had learned, and started all over again.

"Take gravity for instance. When Newton considered the subject he described gravity as a 'pull'. When Einstein reviewed the subject, he abandoned the idea of a pull and described gravity as a 'by-product of the curvature of the 4-dimensional time-space continuum'.

"I don't know what those words mean to you at this moment, but in 1950 they meant nothing to me. So I had to begin afresh, or as they say, 'from the ground up'.

"Like Einstein before me, I found that I too had to abandon the idea that gravity was a pull. An alternative explanation which is easily understood, was arrived at during that fateful January.

"Imagine a primitive gas. A gas with particles much smaller than electrons. Particles which I shall call 'microls', so fine that they can pass or bounce their way freely through the atom. These microls move at an incredible speed and this sub-atomic gas occupies all space, from the vast distances between the galaxies down to the small ones between the parts of each atom.

"If an object is located out in space midway between the galaxies, as many microls will bounce off its molecules or pass through them from one direction as from any other. The impact forces will therefore be equal on average, and so balance out.

"But near a body such as the earth, things are different. In the millions of cubic miles of earth, microls are bouncing about too. If some of these get a little 'tired' by the time they bounce out again, there will be a region around the earth with a percentage of tired microls.

"The impacts affecting an apple, such as Newton's, will then be unequal vertically, with the downcoming impacts more powerful than those due to the tired upcoming microls. Thus, there is a state of unbalance, a differential force, with a resultant whose direction is toward the body causing the tiredness. And this force can easily be what we call the force of gravity.

"What I have told you, is of course, a streamlined and simplified version of the subject but you will see now what I meant when I spoke of a wonderland of strange and unexpected things, a place where gravity does not pull, but is the consequence of an unbalance of push forces instead!

for the
work

"Such an unbalance is mechanically and mathematically exactly equivalent to a pull. Therefore no direct experiment can be devised to decide whether gravity pulls or pushes, certainly an amusing thought.

"At first, I thought that I had done something spectacular and that I had invented a new explanation of gravity. It was not till about four years later, when I compared this sub-atomic gas idea with Einstein's concept that I woke up.

"In any rectangular volume, this gas-like medium has the usual three dimensions. In addition, the microls of which it consists, have speed, and speed is measured in distance per second. The whole medium thus has more than three dimensions, and one of those extra dimensions is TIME. Further, as it is continuous throughout all space, Einstein's words, "4-dimensional time-space continuum" not only begin to make sense, but they fit remarkably well.

"Suppose now that we plot tiredness contours around the earth. These would have the shape of spherical shells concentric with the earth. At great distances, the radius will be great, the local curvature will therefore be slight. Also, out there, the percentage of tired microls in a given volume will be low. Nearer the earth, the curvature of the contours is greater, so is the percentage of tired microls. Does the concept which Einstein described as a 'by-Product' of the curvature fit? Well, to me something resembling a relationship is now very obvious indeed.

"The sub-atomic gas concept I had deduced, thus seems to be only a physical model of what Einstein had deduced mathematically some 35 years earlier. Einstein's "continuum" could well be such a sub-atomic gas; the "curvature" could be the curvature of a contour line; and the "by-product" the force acting in a direction toward the center of curvature, could be caused by unbalanced impacts. Simple, isn't it?

"Since starting on these explorations, I have found that this gas is important in many other ways. It is involved in magnetic fields and in electro-static fields. Also it is the stuff out of which nature makes electrons.

"The structures of magnetic and electrical fields are simple, but the mechanisms by which magnetic and electro-static forces act are such that gravity is elementary by comparison. There is no time now, and this is not the occasion for discussing these matters. The details were communicated by instalments, over the years, to the proper place, but science has been progressing along the mathematical route now for so long that anything else is not taken seriously."

Mr. Voigt has asked us to add that when preparing the text of that address, he knew that time would be short and that non-technical guests would be present. It was therefore not practical to go too much into detail and ideas had to be kept simple. When he spoke of "tired" microls therefore, what he meant was that they had lost some of their translational velocity. Spin has no gravitational action. If their spin has increased, this can take care of the Law of Conservation of Energy.

He is also apologetic for having suggested that Newton was responsible for the word "PULL" in connection with gravity. Recently he learned that Newton avoided the

word "pull" and deliberately used the word "attraction" instead. Furthermore, Newton made it abundantly clear that he was leaving quite unspecified the nature of this "attraction" i.e. how the particles were "impelled" (Newton's own word) toward one another.³

Mr. Voigt points out, that since, with the mechanism described, the only forces occurring are those due to microl impact (or drag -- which also involves contact) gravitational force is the consequence of a change in microl velocity. An increase of velocity involves an acceleration in the direction of motion. A decrease of velocity on the other hand, (deceleration), involves the mathematical equivalent of an acceleration in the opposite direction. Einstein, in his famous Principle of Equivalence, made it clear long ago, that gravity and acceleration were mathematically equivalent. This model shows why.

Mr. Voigt has advised us that in 1958-9 he learned from the Gravity Research Foundation of New Boston, N.H., U.S.A., that the ideas he had in 1950 while still in England, were in large part anticipated by LeSage about 200 years of so earlier. He also thanks the Canadian National Library, Ottawa, for helpful references to the Swiss born LeSage (1724-1803) who became a Professor of Mathematics in France and whose very important paper was read in Berlin. It was entitled "Lucrece Newtonien". An excellent translation, entitled "Newtonian Lucretius" has been published in the U.S.A.⁴

The GAUSS article goes on to discuss the ideas of LeSage and of the ancient Greeks. It seems that LeSage in 1747, on the basis of gravitational arguments alone and because gravity is no surface effect, deduced that the atomic structure was practically empty and wide open. Certainly an unorthodox idea in his day. Rutherford's work in 1911 confirmed the accuracy of that early idea and it is now generally accepted.

LeSage also visualised as the agent of gravity "ultra mundane" particles shooting about in space in all directions "so thinly sown that mutual collisions rarely occurred." They were so fine that only a very small proportion would be intercepted when passing through a body such as the earth. Again an unorthodox idea in his day, and again an anticipation, for the modern scientist credits the Neutrino with powers of penetration at least as great as what LeSage suggested, viz: that "if 10,000 particles presented themselves to traverse the earth, only one would be intercepted."

According to LeSage, by such interceptions a gravity producing body such as the earth upsets the perfect balance existing in gravity free regions of space, and by that unbalance produces on other bodies near the earth a differential force acting toward the earth.

For simplicity, the subsequent history of intercepted particles could be ignored. However in more detailed work, LeSage made it clear that he regarded them as leaving with reduced velocity. Thus, LeSage also anticipated Voigt's idea of "tired" particles.

Newton

The GAUSS article continues:

In LeSage's time, the Law of Conservation of Energy had not been formulated. Consequently the problem of what happens to the energy lost by such particles as are slowed down did not receive his attention. However, the subject was discussed in 1871-72 by Sir William Thompson (who later became Lord Kelvin). The answer he suggested ⁵ agrees approximately with that suggested by Mr. Voigt for his microls.

Mr. Voigt, as a 20th century engineer, is of course, familiar with the modern kinetic theory of gases. According to this, individual gas molecules move randomly, each borne along by its mementum till it collides with another, when it rebounds, so that they are bouncing about continuously. Therefore, when he suggested at the beginning of his discussion on gravity that a "primitive gas" capable of "occupying" the small spaces "between the parts of each atom" be visualized, this automatically included the concept of an extremely short mean free path. Later, where he referred to contours and the percentage of affected particles, this seems to involve long distance paths, but since momentum is passed on through collisions, that simplification was appropriate to the occasion.

Thus, while LeSage's and Voigt's concepts have much in common, there seems to be between them a major difference in the length of the mean free path visualized and the associated difference in the numerical quantity of the particles involved. With the short mean free path inherent in Voigt's "sub-atomic gas" a vastly greater number of particles is required. Any unbalance in the overall resultant force produced is then the combined effect of many relatively weak impacts. This will make the action of the differential force smoother than if fewer particles, each more effective, are involved as visualized by LeSage.

The future will no doubt show if the real explanation of gravitational force belongs to the impact category at all, and if so, which is nearer to the facts, Voigt's British idea involving an all-pervading sub-atomic gas with an appropriately short mean free path, or the Swiss/French LeSage's earlier idea involving "thinly sown" particles with free paths so long that they tend towards the infinite."

That ends our extracts from GAUSS, and it leaves unanswered the question "is history repeating itself by rejecting unorthodox ideas? Will impact explanations of gravity eventually prove to be correct, and become generally acceptable, or is there some totally different explanation?

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SOVIET RESEARCH ON GRAVITATION

SUMMARY

by K. W. Rodie

The Russian scientists it seems are also interested in the possible control of this phenomena termed "gravity". A lengthy volume concerning the progress of Soviet Research along this line has been published. This volume is an analysis of the literature published by the Soviet Union over a period of several years.

Several Russian scientists have proposed theories concerning various ways in which gravitational force is produced and concluding from these concepts various ways which this can be practically applied. One outstanding Russian scientist, Dr. Kirill P. Stanyukovich has made many startling public statements alluding to certain "forthcoming advances" in Soviet capability to overcome the pull of the gravitational force on flying machines and space vehicles. Dr. Stanyukovich has put forth many concepts concerning how he would use gravity as a positive force. In essence, these are his statements:

1. The possibility of developing a graviplane - a machine not subject to the force of gravity.
2. By lowering the temperature of matter to absolute zero, a considerable decrease in gravitational forces and possibly their disappearance might result, thereby creating "weightless matter". This weightless matter could then be used in the construction of a graviplane.
3. He proposed a theory which states, "that the gravitational field of ponderable masses is caused by multi-billion superhigh-frequency vibrations of matter and by the ejection from the vibrating body of energy in the form of gravitational quanta or "gravitrons" resulting in a gravitational attraction to other bodies. The "gravitational radiation", Stanyukovich stated, "would be more intense at a high temperatures and conversely, reduced to virtually zero at low temperatures, near 0 deg. K."
4. He predicted the future use of antimatter (matter made up of antiprotons and positrons instead of protons and electrons as in ordinary matter) to overcome gravitation.

In the overall picture Dr. Stanyukovich emerges as a brilliant physical and engineering theorist, yet he appear to be addicted to sensational headline indulgence, while other equally brilliant scientists stay in the background. Many of his statements have been disavowed by leading Soviet scientific authority.

VIEWS OF OTHER SOVIET SCIENTISTS

V.A. Fok, Head of the Department of Theoretical Physics of Leningrad State University, has never deviated from his long-held views which in essence coincide with those of Einstein. Fok directly negates Stanyukovich's assumption that anything done to affect the hypothetical emission of gravitational waves or gravitrons from a body will effect the weight of the body. This is the main argument separating these two scientists.

D.D. Ivanenko, Professor of Theoretical Physics at Moscow State University, is one of the creators of the theory that gravitational waves may carry energy. Ivanenko writes in response to Stanyukovich's statements, "There is no solution to date of the question of whether or not a moving body loses some of its energy, no matter how insignificant its amount, into gravitational radiation". Thus, Ivanenko denies any support of Stanyukovich's claim that gravitrons actually are known to exist and that gravitational attraction can be "annihilated" by a lowering of the temperature of a mass to absolute zero.

Thus it seems that a great majority of Russian scientists besides Fok and Ivanenko disagree with Stanyukovich's statements. Stanyukovich himself has not substantiated his remarks with any scientifically - founded reasoning. But the Russian scientists must be watched with a close eye, for out of this confusion of concepts might stem a new understanding of this phenomena termed "gravity".

PLANET LIFE DETERMINED BY NEW TECHNIQUE

The first physical evidence that life forms exist outside our own planet has been reported by a team of scientists from Fordham University and Esso Research and Engineering Company. The discovery was made by analyzing pieces of a 97-year-old meteorite using a mass spectrometer, infrared and ultra-violet spectroscopy, and x-ray diffraction technique. The mass spectrometer was a Type 21-103C manufactured by Consolidated Electrodynamics Corporation.

Doctors Bartholomew Nagy and Douglas J. Hennessy of Fordham and Doctor Warren G. Meinschein of Esso disclosed their findings at a recent meeting of the New York Academy of Sciences. They indicated the nearly century old meteorite had been examined many times previously, but that only in the past decade had analytical techniques advanced sufficiently to permit examination in minute detail.

In arriving at their conclusions, the scientists subjected samples of organic material from the meteorite to a stream of electrons in the mass spectrometer. The electron beam broke the molecules of the sample into a series of electricity charged particles which were then sorted out according to molecular weight

by the analyzer section of the mass spectrometer.

Analysis of the derived data revealed the presence of paraffinic hydrocarbons. These paraffins are molecules which contain from 19 to 23 carbon atoms and are known to be similar to molecules found in the skin of grapes and apples. They are produced only by living matter.

A CHRISTMAS STORY: LAMPS TO LIGHT THE WORLD

BY

Wilbert B. Smith

The day was dark and dismal,
The sky was overcast,
A cold north wind was blowing,
Heralding winter's blast.
Store windows brightly glistened
With merchandise displayed
Interspersed with sparkling lights,
Christmas was on parade!
Here and there a Christmas Tree
With strings of lights aglow,
And the Star of Bethlehem
The Christian Way to show.
And throngs of happy people
Hurried along the street
Busy with their own affairs,
Their daily chores to meet.
A newsboy cried a headline
About Atomic War,
Military readiness,
and horrors held in store.
While some men voice their reverence
Unto the Prince of Peace
Their brothers plan destruction
With violence increased.
Degrading Cosmic Energy
For evils yet untold
Instead of atom power plants
For lamps to light the world!

T O P S I D E

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Permission to copy is granted if due acknowledgment is made.

Winter 1962

Topside
#8

Winter 62'

THE FIVE FACES OF MAN

W.B.Smith

When we enter this physical universe we find that there are five relationships to which we are subject. An understanding of these relationships is necessary for a successful sojourn here and progress to higher planes. Not only do the majority of us remain in ignorance of these relationships, but many of us do not even recognize their existence. It is true that there are certain ones which are of interest to us and we do a little lip service there for purely selfish reasons, but there is almost no recognition of the essential nature of these five relationships.

The first Relationship is Religion, which is the relationship of a Being to its Creator. Here we have a hodge-podge of superstition dressed up in pageantry giving lip service to something in which few people actually believe, and practically no one knows anything about. Every great religion says "LOVE THY GOD!" but how many understand what this means? We think we know family love, love of country, love of things, but do we know love of God?

Love Thy God as Thyself! This is something a bit nearer to our understanding because we are all pretty selfish creatures, but again do we really know what it means? Do those of us who abuse our bodies and minds with the many and varied current malpractices have any understanding of what it means to love ourselves?

Love Thy God with all Thy Heart, with all Thy Soul and with all Thy Mind! Here again we are urged to a definite course of action which is spelled out rather clearly, and again we do little or nothing about it. We must learn to know our hearts, our souls, and our minds: to know their capacity and then to use this capacity. There is a tremendous potential here if we but understand it.

The Hierarchy is the relationship of a Being to others not of its kind. In this universe we know very little about the Hierarchy beyond the few other living things which share this planet with us, and which we regard with disdain as being of little or no consequence. We have little knowledge of the vast realms of beings of higher evolution than ourselves and when we do experience a little impact from them, we ignore and suppress it and hope that it will go away because it embarrasses us. There are very few people on this earth who do not feel that somehow they are the Acme of Creation and there are none greater, except possibly a vague and nebulous Deity with which we have little or nothing in common. And yet, knowledge of the Hierarchy obviously is necessary if we are to progress in it; for we are a part of it whether we realize it or not.

Civilization is the relationship of Beings with others of the same kind. This is something about which we know a little, but don't do very much. We have a civilization of sorts but it isn't very good, not nearly so good as the civilizations developed by the Ants and the Bees. We have a general idea of what a civilization ought to be and we all have dreams of a Utopia, but we have not yet mastered even the basic principles upon which a successful civilization must be based.

The many ideologies and 'isms are all attempts to develop a more satisfactory civilization and each must be regarded as a stepping stone leading towards the ultimate. As long as there is disagreement about how civilization should be set up, just that long will it continue to evolve. When people on this planet are satisfied with their civilization it will crystalize as has the civilization of the Ants and the Bees, and further evolvement will rest entirely with the individuals. Because of the basic restless nature of our branch of mankind we will probably not settle for a civilization pattern in the near future, and our ultimate civilization will bear little resemblance to what we have now. But the important thing is to recognize that what we have isn't very good and the ultimate is still far off, and we should work towards it.

Science is the relationship of a Being to the physical world in which it exists. We have evolved a science of sorts by observing Nature and guessing at the causes of the phenomenae which we observe. When we have guessed a plausible explanation we test it by asking Nature a few experimental questions and then fitting the answers into our hypothesis. If they can be made to fit we assume that our original guess was right and we then proceed gleefully on to the next guess. By following this method we have built up a most magnificent concept of this universe in which we live, all beautifully supported by mathematical analyses, and almost entirely self-consistent.

Although it is not generally admitted in scientific circles, there is a prime Cause for this universe, called the Creator, and this universe was established from and within Nothing-At-All. What we observe is the end product of this Creation, or at least that stage of it which involves us. What we do not see is the mechanism by which this all came about and so long as we insist on inspecting it from our rather limited point of view we are not likely to find out very much about its inherent structure. However, if we follow the path trodden by the Creator and start as He did, from Nothing-At-All and follow up the logical sequences, FROM THE BOTTOM UP, checking with Nature by experiment every so often we can get quite a different view of this universe which is ever so much simpler and probably much more accurate than that of our conventional science. By definition Science is the relationship of a Being with the physical world in which it exists, so it is fairly obvious that the viewpoint should be that of the Being, ie. an emanation of the Creator following the path set by the Creator.

The relationship of the Being to the physical vehicle which it occupies is the Tallus, and this is an area where understanding is most conspicuous by its absence. Unfortunately, many, many people do not even recognize that there is such a relationship, believing that the physical vehicle IS the Being, in spite of the vast amount of evidence which is apparent to all that the Being is quite apart, though intimately associated with the physical vehicle. The subtraction of limbs or organs does not detract from a Being and the retirement of a Being from its physical vehicle is not necessarily related too closely with such subtractions. The transcendental

nature of Awareness and impossibility of localizing it within a physical structure indicates that it is something separate.

We are accustomed to living in our physical bodies and to us it feels "normal" and any deviation from this condition results in feelings and sensations which are unique. If our thresholds are depressed as in sleep or under anesthetic we can alter the relationships of our Beings to our vehicles without undue disturbance, but on the other hand, if our thresholds are raised any such alteration becomes most apparent. These are the Tallic sensations or experiences, and are an essential part of our experience here. Drugs, excitement and many other stimuli simultaneously raise our thresholds and allow alteration of the Tallus relationship. The group of experiences involving sex, birth, death and mediumship all involve closely related physical sensations caused by the partial (or complete) withdrawal of the Being from the physical vehicle, or some rearrangement in relation thereto.

These then, are the five relationships which make up the experience of a Being in a physical environment. They are part and parcel of our lives and their understanding is an essential part of our evolvement. We have but a scanty appreciation of these relationships, and even to many they do not exist except as philosophies or superstitions. However, we have only to look at what little is apparent of our Brothers from Elsewhere to appreciate the results of Better understanding of these basic relationships; and they tell us that they too, have a long way to go!

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SIGHTING REPORT

At about 10 P.M. Wednesday, February 7th, 1962, a neighbor (Mrs. Rose Luman, Kirk's Ferry, Quebec) phoned to say she could see a strange large star in the north east which was giving off colored light quite discernible to the naked eye. We, my daughter and I, got the binoculars and watched this object for at least fifteen minutes. It seemed to remain stationary during that time. This object looked to be circular with a bright light at the top. The remainder of this solid looking circle gave off a red, green and bluish light. These colors seemed to shimmer, not at all like the decided green and red flashers of an aircraft. It then seemed to get smaller and on checking later it had completely vanished.

Mrs. Margaret Clark
Kirk's Ferry, Quebec.

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LIQUID OF LIFE

from TIME, Jan. 26, 1962

Ever since astronomers first analyzed the atmosphere of Jupiter and found a blanket of noxious gases thousands of miles thick, most scientists have assumed that the distant planet is devoid of life. But just because earthlings could not live there, says British Amateur Astronomer Axel Firsoff, is no reason to believe that Jupiter is not a populous place. Animals might well thrive even if their planet is covered with a limpid ocean of cold, liquid ammonia.

Life on earth, Firsoff points out in the British magazine DISCOVERY, is based on the reaction of carbon compounds in water solution. But liquid water is not entirely necessary for life. Jupiter is apparently well stocked with ammonia (NH_3), and Firsoff argues that the ammonia would be as satisfactory a solvent as water for supporting life.

"Ammono" chemistry, says the astronomer, is very different from earth's familiar "aquo" chemistry, but there are vital similarities. Both systems produce some well-known compounds, among them the amino acids of which proteins are built. Firsoff is certain that when the first living organisms evolved on earth, the atmosphere above the primeval ocean contained ammonia but no free oxygen. When oxygen accumulated in the atmosphere and ammonia disappeared, life on earth adapted itself to the new conditions. The amino acids that form earth's proteins, says Firsoff, are relics of the prehistoric conditions under which earth life was born.

The digestive systems of modern animals, Firsoff explains, depend on hydrolysis, a process in which proteins, sugars and other compounds are broken down in combination with water. Creatures that have ammonia instead of water in their tissues, would digest food by ammonolysis, i.e., by combining it with ammonia. Instead of oxydizing food to liberate energy as earth's animals do, Jovian animals would combine it with nitrogen, and the final product would be cyanogen (CN_2), a gas that is violently poisonous to life on earth. "Jovian animals," says Astronomer Firsoff, "could breathe nitrogen and drink liquid ammonia. Whether they do remains to be seen."



"Ammonia! Ammonia! "

BOOK REVIEWS

MANY MANSIONS by Gina Cerminara.

The author introduces the concept of reincarnation in a casual and subtle, yet logical and convincing, manner. The text is well organized and highly informative, though the style is free-flowing and makes for pleasant reading.

A brief over-all view of what the author terms "the magnificent possibility" is followed by a comprehensive discussion of Karma. The law of Karma as an action, and with its inherent element of consequence, is developed in its many aspects on a chapter by chapter basis.

The popular view that Karma is solely retributive is elegantly dismissed and the true nature of Karma, as a necessary and formative process, is thoroughly explained. In the light of this all-embracing concept, even the retributive facets of life, in all its trials and tribulations, are seen as necessary contributions to the formative process. Certain problems of health, both physical and mental, marriage and celibacy, parent and child relations, inborn traits of vocational competence, are fully explored. The reader, however, is made aware that everything that happens is not all karmic in nature; that immediate circumstances can lead to the creation of completely new situations; that "contemporary" decisions can initiate actions and conditions of their own.

Acceptation of the concept of reincarnation, as put forth in this book, can provide a sense of purpose to one's existence; an attitude of consoling resignation towards otherwise disturbing misfortunes; a feeling of humility and gratitude for our talents and good fortune, rather than one of self-centered exuberance; an inspiration in correcting certain of our ways and in developing true human values.

The author has based the discussion on evidence obtained in the files of the late Edgar Cayce. For those who may not be familiar with this American psychic, Edgar Cayce was at one time, prior to his knowledge of his psychic abilities, led to diagnose his own state of health under hypnosis. His success was also evident in his ability to diagnose ailments of other people as well. Furthermore his ability was found to be not only diagnostic but, in the hypnotic state, the causes of the ailment also could be known. It was with relation to the latter that the laws of karma were put forth as the causes of certain conditions, and in the light of these same laws that corrective action was suggested. Throughout the remainder of his life, Cayce in this manner contributed not only to the relief of suffering but also significantly to our knowledge of man's clairvoyant faculty and our understanding of karmic action.

NO MORE HUNGER by William Dudley Pelley. \$2.00

Aquila Press, Inc., Box 252, NOBLESVILLE, Indiana,
U.S.A.

This little book, NO MORE HUNGER, brings sharply into focus the basic causes of the many problems which beset humanity on this planet, and sets forth a remedy which is at once practical and attainable, and yet would place mankind on an almost Utopian basis. It is called "Christian Economics" and the state a "Christian Commonwealth". It is not communism, socialism, capitalism, or any other of the myriad of "-isms" which have been suggested from time to time as Panaceas for all ills. It is simply the incorporation of the entire resources of a nation, together with its people, as a giant Corporation in which every citizen holds a single share of common (voting) stock together with preferred shares corresponding with the value of assets which he turned over to the Corporation.

A guaranteed dividend on each common share would assure a minimal living standard for everybody, which would be supplemented by earnings of the scale of which would be determined by individual qualifications. In this manner there would be exactly enough purchasing credit in the hands of the people to purchase everything they produced in any basic period, and there could never be any glut or shortages. Money, and all the evils stemming from it, would disappear and be replaced by credits in a national bank, against which personal cheques would be issued up to the value of the credits as they were earned. By making the cheques non-negotiable, the incentive and mechanism for crime would be tremendously reduced, and since all transactions except those of a personal nature would be with the Corporation, it would be much harder to be dishonest than honest.

The economic system set forth in NO MORE HUNGER is almost identical with the economic systems used by the various nations of people from "elsewhere", and it is most probable that Pelley obtained these principles from them as he is known to have had considerable communication with "outside". It is apparent that Pelley has taken the basic principles which have proved to be workable "elsewhere" and developed them into something fitting our concepts, namely a Corporation. By so doing he makes it crystal clear that nobody is going to lose anything by incorporating, and the Corporation, by its very magnetude, could accomplish that which smaller effort couldn't even consider.

This book, NO MORE HUNGER, can and probably will do more for Humanity than Marx has done for Communism, or the Rothschilds have done for Capitalism. It is a book that is well worth reading and should be part of every thinking person's library. It is well worth the nominal \$2.00 cost.

SIGHTING REPORT

Date: March 4, 1962 Time: 2.30 A.M.

Location: In the area bounded by the streets Palsen,
Laird and Perry in Meadowlands, City View.

Description: Upon entering the laneway to my house I glanced across the street into my neighbor's back yard. In doing so I noticed about a hundred yards away a small object, with a shimmery pale yellow halo about its circumference. It appeared to be about a foot in diameter and appeared against a background of a garage and then a house. It climbed rather slowly, from an angle of about 15 degrees and disappeared from view behind a house. When I went to investigate the object was gone. The night was extremely still and quiet. The object emitted no sound whatsoever. The sky was crystal clear, so if the object had attained a higher altitude it could have been seen quite plainly. I still wonder where it went. The total time of the sighting was about 5 to 10 seconds.



Keith Rodie
City View, Ont.

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ON LIFE

W.B.Smith

Make the world a little brighter,
Make somebody's burden lighter,
Lend someone a helping hand,
Pull a brother from the sand,
Do your bit, however small,
Have a smile for one and all,
And when you meet the Judgement Day
Hold high your head and proudly say,
"the world, though little I could give,
Is better now, because I lived! "