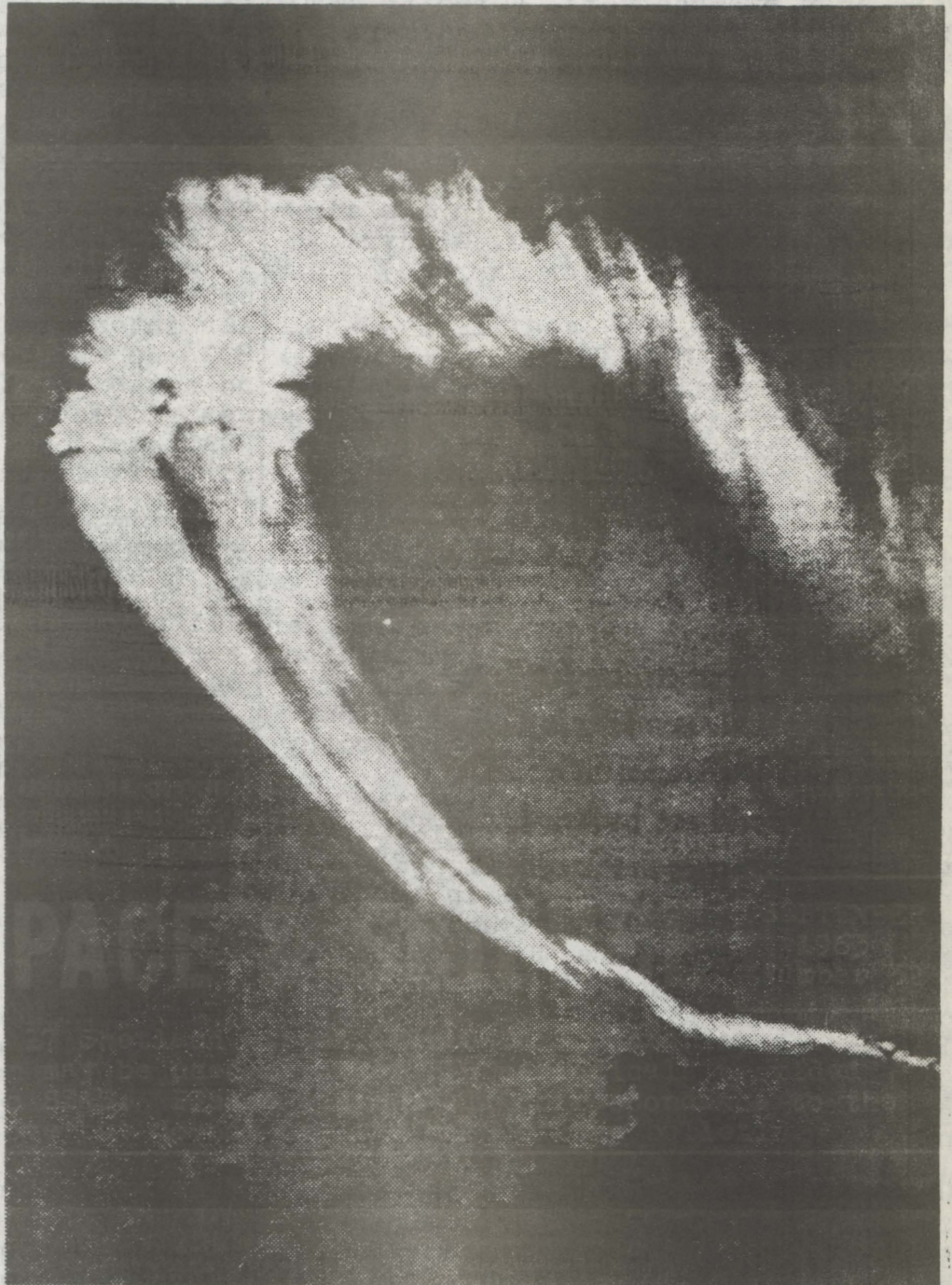


SAUCERS, SPACE & SCIENCE

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Gene Duplantier, Editor, 17 Shetland Street, WILLOWDALE, Ontario, Canada. Material contained herein may be used by other UFO periodicals provided proper credit is given to SS&S. Please address all correspondence to the editor at the address above but do not use the name of the bulletin.

In April we learned about an expedition to a cave in or near Magdalena, New Mexico, where in early June, 1963, this expedition would endeavour to find out the source of flying saucers seen to be coming from the cave. This group was to be led by Dr. R.L. Dobbins along with 5 other men. Two small doors were observed partly inside the cave. A previous expedition had no success as they only went so far and could go no farther as their hair stood on end until they came out of the cave. We also found out that this was a probable lair of the feared Dero. One of SS&S subscribers from Florida was going to go on this trip but could not make it at the appointed time, so we had to rely on Dr. Dobbins for his report on the outcome of this adventure. Before they left on the trip we had a letter from Dr. Dobbins "If any of the members do not survive, I would not be able to write about it from deep regret. If all survive & the expedition meets up with expectations, I do not think that I could do anything to remind me of the terror involved (Con't on Page 2, Col.2)



—AP Wirephoto

UNUSUAL CLOUD FORMATION is believed by authorities to be the most extraordinary ever photographed. It appeared over Flagstaff, Ariz., on Feb. 28, at height of 140,000 feet. Experts could not explain its existence at that altitude.

SILVER BALL SEEN OVER THAMESVILLE, ONT.

AT 10 P.M., Monday, October 1, 1962, a silver ball-shaped object was spotted by various residents of Thamesville, Ontario, Can. It was still there at midnight and no explanations were forthcoming from responsible persons. During the evening, jet contrails in the vicinity of the object were seen by observers. (Credit: APRO BULLETIN, also Mrs. Marge Chalmers, Ridgeway, Ont.)

Buffalo, N.Y. April, 4, 1963--This city was shaken by a rumbling, explosive-like sound. The Greater Buffalo Airport said no jets were in the air at the time. (Credit: Mrs. Gladys Fusaro, Buffalo-Courier Express)

Buffalo, N.Y. May 7, 1963 -- A mysterious ball of blue ice that may have fallen from outer space, dropped into a Tonawanda backyard Monday. The ice was about the size of a softball, bounced off the garage of Arthur Krock, about noon. (Cr: Gladys Fusaro)

Cincinnati, Ohio. June 8, 1963 -- Friday's warm "sitting out" night brought the Enquirer two reports of an UFO. Both callers saw a bright white light travelling slowly from south to north "very high up", about 9:45 pm. (Cincinnati Enquirer, credit: Dorothy Lefler, Cincinnati, O.)

March 7, 1963, Cleveland, Ohio -- a 7" triangular piece of cast iron $\frac{3}{4}$ " thick ripped an eight-inch hole in the roof of a house last night. A hot piece of metal was found and a three foot hole in the inner wall of the third floor of the building was found. (Chicago Tribune, Credit: Wm. Gryzik, Chicago.)

April 22, 1963 -- A glowing white ball of flame that seemingly disappeared in Lake Michigan was sighted by many Chicagoans last night. It is believed to be a large meteor. Dr. J.L. Hynek said it "sounds like a typical bolide meteor". (Chicago Tribune, Credit: Wm. Gryzik, Chicago, Ill.)

April 29, 1963, Melrose Park, a mysterious explosion cracked windows and

awakened hundreds of persons in the western suburbs. A hole, about 1 $\frac{1}{2}$ ' deep and three feet in diameter was found near a shallow creek that runs through a field. (Chicago Sun-Times, Credit: Wm. Gryzik, Chicago, Ill.)

June 17, 1963, Toronto, Ontario.

Radio news at 10pm reported numerous calls about two UFOs high over Toronto. One of them may have been the Echo satellite, but what was the other one? (Credit: Walter Kopacz, Toronto, Ont.)

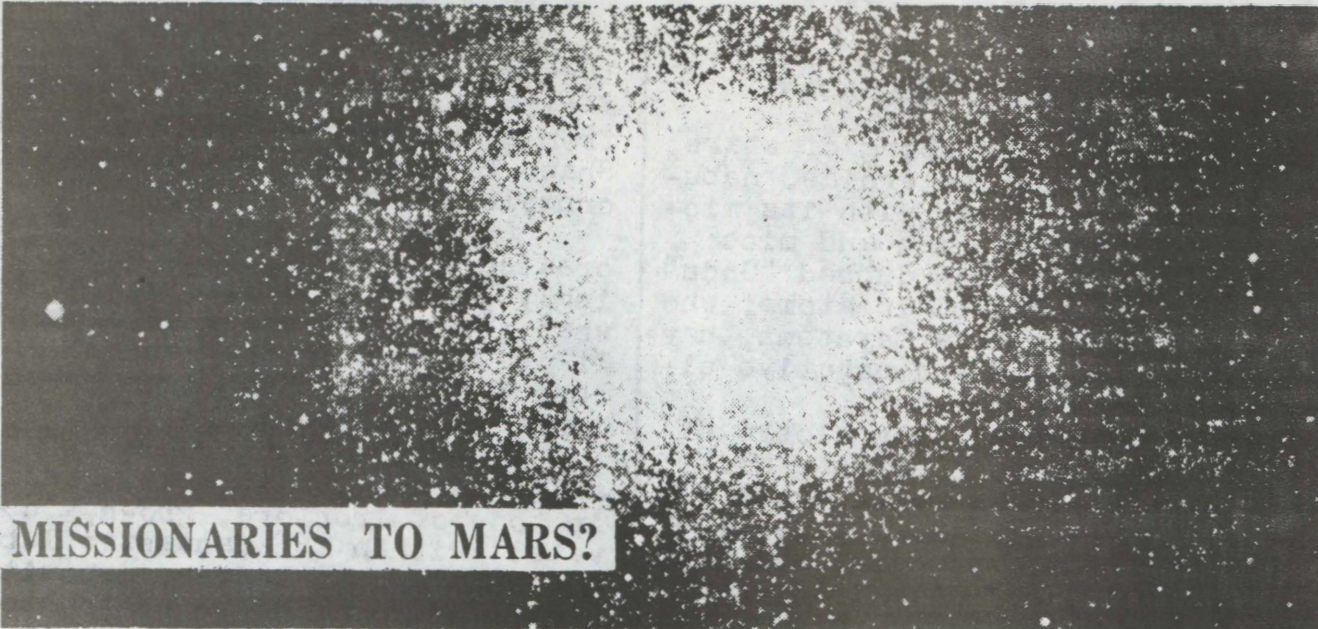
June 10, 1963, The Gatineau, Quebec.

A strange object travelling slowly in the sky was sighted early Sunday by Henri Perrault, 38 Glen Ave. Ottawa, Ont. It was "very small, oblong, fiery object emitting a short fiery trail at irregular intervals." It seemed to be about 800' up and below the clouds. It emitted no noise and travelled in a west-south west direction on a horizontal course. RCAF Station Uplands says there were no aircraft in the air at the time.

(The Ottawa Citizen, June 11, 1963)

CAVE EXPLORATION (Con't from Page 1.)

ved." The exploration was to extend across the desolate region and search all caves on an outlined route to the care of major interest. Commenting on the prelude to the expedition, several days before the members were to arrive, the City Marshall took pursuit to a brilliant-reddish-round light that was on a nearby hillside. Just as he and his crew would get near the object, it would be on another hill side within a second. The object was pursued for three consecutive nights. On the day of arrival for the members, the telephone went out of order, the members took sick, something was wrong with any mechanical mechanism connected with the exploration. It would take several pages to tell of how many things went haywire and all in a few hours. It was as though some unseen power had everything under its control. The expedition was attempted and a week later it was nothing in the way of force or disc at the observed cave. It was a physical hardship getting to the cave, and whatever the force was, I do not think the journey was necessary, as the unseen force came to us first.



MISSIONARIES TO MARS?

GLOBULAR STAR CLUSTER IN HERCULES THROUGH A 200-INCH TELESCOPE
Are the denizens of outer space waiting for missionaries from earth to evangelize them?

WILL EARTH ever send missionaries to Mars? Fanciful as the question sounds, some Christian theologians are seriously grappling with it.

The exploration of space—its latest manifestation being astronaut Gordon Cooper's 22-orbit excursion around the earth—has raised some profound and penetrating theological issues.

If intelligent beings exist on other planets, what is their relationship to God? Are they a "fallen" race in need of redemption?

Have there been divine incarnations on other worlds than ours? Did another Christ visit some tiny star in the distant galaxy, Andromeda?

Or are the denizens of outer space waiting for missionaries from earth to evangelize them?

Space Theology

For the present, these are merely hypothetical questions. But 20 or 30 or 50 years from now...?

Out of these and similar questions is emerging a growing body of "space theology."

One conjecture by a leading Christian theologian is that, just as Jesus brought God's revelation to earth, similar divine incarnations may well be the way God reveals Himself on other

planets throughout the whirling galaxies.

But it probably did not happen anywhere else in our solar system, according to Dr. Geddes MacGregor, dean of the graduate school of religion at the University of Southern California.

Like Ourselves

Dr. MacGregor, a Presbyterian minister, said: "It would not in the least astonish me if God had billions of inhabited planets in His other solar systems yet not a single other one in ours."

"However, suppose that Venus were inhabited by intelligent beings and that the Venusians were sinners like ourselves and in need of redemption.

"Has any provision been made for this? It might be that within the divine Providence they have been kept waiting for millions of years to be evangelized by the Church on earth.

"But it would seem more likely that God will have made provision for the Venusians according to their need.

Only One Lord

"Since God has loved the world as to give Him

whom we Christians acclaim as our Saviour, true God and true man, it would be neither more nor less astonishing to find that in His love He similarly provided Venus with a Saviour, true God and true Venusian.

"There is but one Christ our Lord. But this does not exclude the possibility of there being millions of other divine incarnations throughout the innumerable galaxies. As the love of God is boundless so also are the redemptive possibilities beyond this earth. We have certainly no reason to suppose we have a monopoly of divine redemption."

What do Toronto clergymen think about "space theology?" Here are some comments:

Rev. John Hochban, S.J., dean of the faculty, Regis Jesuit College:

"The whole question of intelligent beings on other planets is almost infinitely hypothetical. However, Dr. MacGregor's speculations are interesting in the extreme.

"I don't find anything intrinsically repugnant in his idea of what God could do. But some things puzzle me. When Dr. MacGregor speaks of 'millions of divine

incarnations' what does he mean? Does he mean that God, the Son, took upon himself the nature of these other races, as He took human nature upon Himself? I find it difficult to see how this idea can be fitted into the divine plan of redemption."

Dr. John Short, St. George's United Church:

"I agree with Dr. MacGregor's final statement: God would use the conditions of existence on other populated planets—if they are populated—to reveal Himself according to the inhabitants' capacity to receive and respond to His revelation. I feel sure that in this illimitable universe ours is not the only populated planet."

Dr. W. Gordon Brown, Central Baptist Seminary:

"I would take the opposite view to Dr. MacGregor: If there are intelligences on other planets—and I have grave doubts about it—they would have to be redeemed by the work of one Redeemer, Jesus Christ. The Bible says: 'God so loved the world'—in the Greek the word is 'kosmos' which can mean the whole universe, not just this earth."

STARDUST By Sungma Tenzing Lama

The universe consisting of stars, planets, satellites, asteroids, nebulae, comets, galaxies, with its microbes, germs, spores, men and mice; supermen devas and such dubbed "Gods" by the ignorant, are basic atoms, who in turn are minute solar systems, having positive nucleus and negative electrons as their "planets".

Atoms are the building blocks of the universe, stardust holding all things together, even *homo erectus* and this is worthy of some attention. By a unique formula of celestial chemistry, one live, infinitesimal small bit of matter, which as a cell formulates proud man, grows in time via a mystery chemistry a handful of stardust -- which in my humble opinion may be the sole purpose and destiny of man, having thus created new matter by the handful, for a purpose still a bit vague and secret, so that man does not as yet guess his true purpose and all, important function, besides procreation, the importance to collect these 96 elementals found with this stardust, when man has again fallen into dust.

For indeed, it was decreed eons in the past and not by earthlings, that man in the last analysis should amount to nothing else than a potential handful of dust, useful for such super science, not from this planet, who needs this matter for their peculiar sciences, perhaps to refuel their spacewagons, perhaps for methods of nourishments.

Proud man, may he be emperor, beggar, philosopher, thief; religious fanatic or heretic -- all a culmination of a "stardust bank," contributing to a science alien to earthlings, who may have planted man here for reproducing additional useful matter, to sprinkle the planet like flowers shedding seed, so as to make it fertile for Things yet to come. This basic truth may well be a shock to religionists!

It may be that this form of revitalization via human stardust is highly essential even to the planet itself, since energies of an atomic nature taken off the earth, is thus

lost and used up, and there will come a time when the last atom is drained from earth by the "Spoilers" and Space Pirates and the planet will crumble and be no more.

And so man, generously and simply created by the billions here, unknowingly contributes millions of tons of what gives with these 96 elements. It is known that the handful of human dust contains enough iron ore to fashion a fair sized spike.

One can multiply this by a billion and come up with an amazing sum total in tons of iron ore, grown, "cultivated" within the fantastic laboratories of human bodies, deposited within graveyards, so as to store these "stardust treasures" for such as come to gather the harvest. Does it also seem logically to assume, that such aliens as come from other earths, refuel their chariots here with matter convertible from human stardust, will move on, once the planet has been thoroughly exploited and its matter exhausted via "Atom-Zerfall" or disintegration, that these "Spoilers" and Space Pirates then seek out new worlds in the wide cosmos, where again creatures similar to us create additional needed matter in whatever bodies they possess.

Will they merely scoop up, fish out with equipments facilitating such operation, like refueling an aeroplane in midair, thus an actual landing on this cursed planet would not be necessary, by such as wish not to be polluted and degraded by lower forms of animal life such as the human specie. Since only matter is of interest, no matter where such matter lives in its originality, such stardust may exhaust itself and in time even planet three must break up, explode, vanish, which makes little difference to such as cruise the void of space in gigantic motherships with immortal crews, who indeed must laugh at the antics of men, when all they are to them is stardust alive for a while.

Sungma Tenzing Lama is the author of "Agharta" "Homecoming of the Martians" "The Eternal Fountain". We hope to tell you more about them in SS&S.

THEY REMADE THE PLANET MARS

By M. Douglas

Recently, SAUCERS, SPACE & SCIENCE published a story by a man who claimed he was carted off to Mars. Unfortunately the man apparently was unable to recover his senses after he got there, no doubt due to the nature of transportation. It appears to be a malady of all who so travel to the Red One. In that their tales are not lucid.

But now, for the first time, we can describe what is going on there without risking such detrimental psyche disturbances. In fact, we're now going to take you along on such a mental journey, right here, in this article.

We will also step out, courageously, and predict that, when the present Soviet Mars probe, and future United States Mars probes, reach that planet, they will confirm a great deal of the following.

The title of this article seems an impossibility, let alone a ludicrous improbability, doesn't it? But it isn't. Let us not continue to perpetuate the error of confirming other intelligences to within our concepts. Let us also strive to bear in mind that there is no such thing as 'mystery'--there is only lack of adequate information. And, fortunately, there exists reams of sedulous data to support our title.

Because of space, we are not going to be able to present every speck of data, but will lean heavily upon your own knowledge to fill in wherever pertinent. Too, we have left behind the technical phraseology to be better able to freely interpret our findings. We leave it to you to decide whether it could be true. Personally, we find that it is the only theory (pending a better one) which fits known facts. If nothing else, we hope you find it interesting, entertaining, and hopefully, stimulating to your thought processes. Bearing in mind that ACTUALITY should hold sway.

We must go back to those fabulous 1880's wherein occurred that

plethora of astronomical and Fortean phenomena which held men spellbound, and confounded them, and even snatched away their imaginations, and made them run wild through all sorts of theories in an attempt to explain what was happening and to rationalize that which they could not comprehend.

We do not care a great deal about those phenomenon which took place farther back in time, but for our purpose, here, we need not go into them. For we are not going to present theory concerning previous activity, but only that which we, in modern times, have witnessed. It is time enough, when we become familiar in space to determine the truths of the past.

Mars, is, naturally, more readily obtainable for observation, and is the only planet in our system which provides us with such clear 'seeing' as far as its surface goes. Therefore, it is only natural that we are attracted to it. But in recent times, there has come, bit by bit, and steadily, other factors which compel us to study it long and hard. For in the sequence of observations, over a period of 98 years we discover what only can be attributed to a purposeful, orderly, creative intelligence.

Kepler, foremost among others, believed, via his penchant for rhythm of numbers and being something of a mystic, that Mars should have two moons. We know that Swift made use of these figurings (among others) to accurately predict their placement. However, we can be certain that they were not there at that time. They were not there even in 1862. The same kind of telescope that was used, among other types, to observe the planet in that year, also was instrumental in discovering those moons in later years by Asaph Hall. We feel, on the basis of record, that we can state those moons were not there prior to 1865.

It does not appear coincidental, upon sedulous research, that these moons should appear then; along with the appearance of the Jupiterian Red Spot; the puzzling activities on Luna; and that which passed over the face of Earth -- all in the same time period.

No, it indicates, quite convincingly, that a definite program was in effect.

Sifting through all the known data up to this year, 1963, and not merely 'choosing' an item here and there to fit our theory, as many are wont to do, we discover a startling fact: Some intelligence took it upon themselves to accomplish the impossible -- to literally remake the surface of Mars (at least) to suit their especial environmental requirements. But before you scoff, reconsider the fact of the building of such artifacts as the Pyramids; the Great China wall; Stonehenge, and the like. Men just went ahead and did it. The same is true of the awesome task presented in nucleonics or biotechnics, for example.

Starting now and working back, let's review a few bits of data and arrive at the only possible conclusion.

Dr. Iosif S. Shklovsky deduced that at least one of the Martian moons, the inner one, was artificial. But this was considered many years before by others. That the moon in question shows every evidence of artificiality; that it suddenly increases orbital velocity with the beginning of spring growth, waning in the fall, certainly can only lead to the conclusion that it IS artificial; that it IS REGULATED and therefore controlled by an intelligence.

Speculating on that, we feel that it is going to be found that this peculiar action of that moon will be found to have a very definite function necessary to the growth on the surface of Mars, among other aspects; that this increase provides the means whereby it can combine with other incoming solar and cosmic energies and forces to create artificial tidal effects, say, which would account for the deft conservation of the small water (moisture) supply, and therefore give evidence as to how it is that suddenly there appears a steady, encroachment of that growth into arid areas of such vast proportions, and why those so-called canals (actually linear series of squares or dots) move right along with this new growth. Is it logical to accept that

this is accomplished so precisely by nature? Naturally not. It is ludicrous, in face of facts, to believe that.

To substantiate that, do not forget the fact that these so-called canals DO suddenly split in two, at the equator becoming twins. There is a very excellent reason for this, since the cycle of growth, etc., is the reverse of that of earth, that is, from pole to equator, and is connected with the placement of the inner moon and its behaviour. Such phenomena cannot, by any reason, occur, in natural nature. When the 'twinning' of those lines is repeated, precisely the same, all around the equator, my friends, then it must be done deliberately and artificially. It cannot be accidental.

It is why these human 'travellers-to-Mars' have fallen flat on their ignorance -- they have not faced ACTUALITY. Those in ufology, too, have not fully considered ALL aspects presented to them by the presence of the UFO, or the facts re Mars. It is one thing to merely collect, catalogue, correlate, analyze, etc., UFO sighting reports and be lost in the wonder of it all. It is quite another tangent to delve deeply into the glaring aspects (we fail, often, to notice the simple things, or that which is right in plain sight) of the UFO problem. It has been, for 18 years, a grave error of ufology to believe that all the Air Force, or any civilian agency contracted to the task, did was merely to collect UFO reports, issue analyses of them, spend millions of dollars and expend thousands of man-hours doing only that, or allowing 'accidental' leaks to seep through, etc. For they have made much better use of their time and available brainpower than just that. They have dug deeply into every aspect of the UFO, and have come up with enormous amounts of useful information. Consider again the Feb. 6, 1962 AF UFO analysis report, in their last paragraphs...they state that they do not deny the existence of animal life elsewhere...though in the next they say they do not have evidence of it. Consider the Project Ozma, and other radio-telescope projects which took thousands of man-hours to prepare and develop, and millions of dollars to construct (and proposed ones too);

of the new statements re life in space being probable; of the recent Soviet announcement, for example that they will begin a search of the Andromeda nebula for signs of intelligent life; of the puzzling finding, on a new Kodak emulsion plate by the U.S. Naval Observatory the night of August 22, 1924, when they trained their scopes on Mars, along with others all over the world (and with radio, in an attempt, during global radio silence to intercept intelligent 'messages'); and much, much more. What should be of more interest is what evidence and data lies BEHIND SUCH STATEMENTS & ACTIVITY!!!

So, we do not know how long these beings have been around, before they chose Mars, but by applying ALL data and observations, and by following the sequence of events, and their progress, for the last 98 years we cannot escape the logical conclusion that someone has been tenaciously engaged in literally re-creating the surface features of Mars preparatory to colonization. It can only be thought that we have been witnessing the finalization of that awesome program, and that, now, they have settled upon the surface of Mars. We think that they came in what we think of as an artificial moon, and that now, others will follow; that in that moon (sic) was lodged our familiar UFO -- for analyzing UFO sighting reports we find that only a few craft were ever responsible for all the GENUINE UFO sightings, and that there were no more than four configurations involved.

We will go into this and other, as yet not considered aspects of the UFO in our next article. And more about Luna and Mars, and new evidences now on both.

HEADLINERS

A ray gun which will cut down trees was discussed in Victoria, B.C. recently.....Three tons of rock from northern Quebec found by Dominion Observatory scientists while probing two meteor craters will be studied for ways of aiding future spacemen on the moon.....35 Canadian Black

Brant rockets including Canada's first 2-stage rocket will be fired from Fort Churchill, Manitoba next year..... A lightning bolt (?) blasted crazily through a rear wall of a house, made a 90 degree turn in mid-air and shot out side again through another wall in Chilliwack, B.C. on Monday, May 6/63Pacific Naval Lab. scientists have explored Arctic undersea sounds to distinguish them from submarine noises.On July 20th, a special excursion train headed into rugged Ontario north-land area between Cochrane and Moose River Crossing to view the eclipse of the sun, duration 1½ mins.A secret American satellite is so sensitive it can tap Russian telephone messages and pinpoint missile launch sites by their radio guidance signals, is now orbiting the earth.....Alberta Research council personnel found fragments of a meteorite which plummeted to earth in the Peace River district on March 31.The earth-landing system of the three-man Apollo spacecraft was tested successfully on May 3, 1963....Dr. Sidney Schwartz of Grumman Aircraft Corp has devised an edible construction material that is suitable for spaceship construction.....U.S. space agency is planning to float men for 30 days or more in sealed capsules to test life support systems for future aircraft... Dr. Van de Kamp has discovered a planet outside our solar system which is 1.5 times as massive as Jupiter. It is 6 light years away from earth, orbiting Barnard's Star, the 2nd nearest star to Earth. The new planet is called Barnard's Star B.....Soviet scientists have drawn up plans for a solar power station on the moon.....

UFO SIGHTED OVER WESTLAKE, OHIO.

Robert Alimo of Center Ridge Rd., a member of the Ground Observer Corps., saw at a height of two to three thousand feet and the size of a half-dollar held at arm's length, a UFO that bobbed up and down at an angle of 45 degrees. It was travelling N-NE, turned white to orange and disappeared when a plane approached. It was a clear, moonlit night, stars shining. He was on his way to his fiance's home, saw it while motoring, and later both of them watched it for 4 minutes. Total viewing time, 12 minutes(Gr: Earl Neff)

THE TIDE HAS TURNED

By Ronald W.J. Anstee

Copernicus, who lived a century before Galileo, had affirmed that the universe was spherical, and that the sun, not the earth, is the center of our immediate universe. The spread of this doctrine by Galileo caused consternation in theological circles because if it were true that the earth was not the center of the universe, as the church had taught and believed, then man would not be the principal being that he was held to be. He would not be perhaps the greatest achievement of the Divine and would not be the only agent to possess a soul, for if there were other celestial bodies of greater dimension and magnitude than the earth, there might also be intelligences upon them far exceeding the abilities of man, and possibly possessed of greater Divine powers as well.

So Galileo was ordered to appear before a theological council made up of the great dignitaries of the church and this resulted in their ordering him not to teach, not to write about or to support the doctrines of Copernicus, notwithstanding the fact that he could demonstrate the Copernicus theories with his telescope.

As time went on, Galileo's ideas had to be accepted because the facts became undeniable, but the church still did not teach the truth, if their followers were not interested they were not encouraged to become interested, Galileo's ideas were not now so violently opposed because of scientific backing. In other words, on the surface and for all intents and purposes, the church had changed their former stand, yet underneath it all, their opinions had not changed at all. Why was this?

Although the church leaders began to realize the possibilities of a universe of greater magnitude than they ever thought of before, the distances of other bodies from the earth was so great that many people believed that it was impossible for

any life that might exist there, to visit this earth or for anyone to ever leave this earth and visit the area outside this earth, so it was considered safe, on the surface at least, to accept the latest findings on the universe, as no life could come near the earth and endanger their ideas.

But now the tide has turned, what do we find today, when it became obvious that rocket experiments were progressing at an increased rate, church leaders and others of like mind, began to cry out, oh that is God's domain, you have no right to invade His abode, man was never meant to leave the earth, but they cried to no avail -- and they will go on crying to no avail.

Now the thin edge of the wedge has been pushed into the crack of stagnant ideas of the fuddy duddies. Although this wedge was already at hand 5000 years ago when great commotion took place in ancient Egypt, for squadrons of strange aerial machines appeared over that country, and down through the years there have been other sightings to keep the wedge in shape ready for the day of its intended work. During the 1800's and 1900's many unusual things were being seen and reported in the area outside this earth, on or near the moon and on or near the other planets. The Industrial Revolution was on, and these objects came closer to the earth, obviously interested in progress on this earth. The children are beginning to play with bigger toys and the higher intelligent races were taking a closer watch.

Then during the second world war the toys were getting bigger and dangerous, greater became the number of craft visiting the earth, now the wedge was being raised ready for its thrust into that old crack in the ancient wall of the fortress of ignorance and conceit, the church leaders. Some of the newer astronomers and the keepers of the money purses, started their campaign of trying to convince the public that they were all having dreams and spots before the eyes, but unwittingly they themselves pushed the wedge in a little further. The first atom bomb

was tested and the dangerous belts of radiation were started. The visits of people from other planets all over the world became more numerous. Now some authorities are fighting each other trying to outdo each other with funny answers to feed the ever gullible public. But, the sightings increased and many people were beginning to see the truth. Those who wanted to hide the truth were driven to other measures, in Switzerland a lecturer's films were blotted out by prearranged searchlights, in France a book was banned, in Vancouver films of a cigar-shaped spacecraft taken by civilians at an air show, were confiscated. Telephone conversations no longer remained secret but were listened to by wire-tappers. In some cases letters were confiscated or lost, but all over the world sightings continued and so they will, in one case church members silenced witnesses to a sighting over a large city. Satellites were now circling the air around the earth in greater numbers. The rocket plane X-15 had been up a number of times, cameras on the X-15 photographed five to six remote controlled discs that followed the plane. The Air Force not to be outdone said they were ice particles breaking off the X-15. This, despite the fact that at the time the surface temperature of the plane was over 300 degrees F. More recently another pilot of the X-15 reported that something that looked like a piece of paper was 30 to 40 feet from the plane, he observed it for 5 seconds, during this time the plane travelled over 5 miles. The plane was moving at over 3000mph. Yet the object was still following the plane, some paper!

The Russians and the Americans have started on their space research program. They will find more evidence of higher intelligence on other planets, and the wedge will be driven ever further into the camp of ignorance and conceited fools until it is split asunder with such a roar and amid loud crying and wailing, that it will never be forgotten. Events of great importance are not far away. The public must be made aware of things to come, not tomorrow, but today.

BOOKS

AGHARTA by Dr. Robert Ernst Dickhoff

Although this book is now out of print I feel that you should know about it. This book is still available in serial form and can be purchased from the author at 600 W-157th Street, New York, ³² N.Y.

The actual highlights in the book can be summed up in ten questions; and the answers are in the text of this book, with a "Golden Key" added by which the situation confronting all Mankind can be remedied.

What is uppermost in the minds of both the warring camps? Can peace be won by war? Who put this war thought into the mind of man and why? Who would profit by so much destruction? Are demons, devils or the "Outsiders" trying to rule? Who are the three unclear frogs? Who prophesied that a Saviour would rise at the last critical hour? Who are the Aghartans? What is meant by the "Serpents"? What is the aim of "Saucers" and from where do they come?

The reader will find that the answers given in the book Agharta to the above questions are a bit different than anticipated. He will pause to reflect that it is much later than he thinks to rally against a nameless Horror wishing to seal the doom of all Earthbound Creatures. Illustrated. Agharta brings an amazing, startling revelation as to the "Guardians of Earth"--the Colony of Outsiders, who keep watch in "Saucers" over the progress of "Mankind"--today as in eons in the past.

The price of the installments of this book is 50¢ per copy.

MOVIES

The movie which was briefly reviewed in the December 1962 issue of SS&S under the title THE HEAVENS CALL has been changed to BATTLE BEYOND THE SUN. This was one of the best color space pictures your editor has seen. The sets are of tremendous stature and the space shots are fantastically done. Don't miss it!

ICARUS MONTGOLFIER WRIGHT--by Ray Bradbury, has been made into a movie short. 180 stills of paintings are put into motion in technicolor. A space tale!

40,000,000 pound rocket proposed

By Dr. I. M. Levitt
The Fels Planetarium
Of The Franklin Institute

A fantastic proposal to increase orbital payloads by a whole order of magnitude has been made by Robert C. Truax, a pioneer rocket expert now with the Aerojet-General Corporation. Captain Truax visualizes vehicles with a launching weight in excess of 40,000,000 pounds capable of placing from 1 to 1½ million pounds of payload in a 300-mile orbit! Only with a payload of this type does he believe the U.S. can fulfill its aspirations to explore the moon and then leave for trips through the outer reaches of interplanetary space. Only in this way can America profit from the \$40 billion investment to put a man on the moon.

Captain Truax indicates that any mission involving a large number of men sent into space for extended periods must have continuous logistic support, and that it is economically unfeasible to furnish this support today with payloads costing on the order of \$1,000 per pound. Even if this cost were cut to \$50 a pound it is still an expensive and almost prohibitive undertaking.

To get around the limitations placed on space exploration by the inordinately high

logistics cost, he would develop a new type of rugged launch vehicle which could be used again and again, perhaps 100 times. This would be accomplished by making the vehicles larger, simpler and reusable. In this fashion the cost of the hardware would be reduced to the point where it would be no more expensive than the propellants used in the vehicle.

Small by some standards

The vehicle system he proposes is the Sea Dragon. This is a two-stage vehicle which, if erected on land would stand 500 feet high and have a diameter of 75 feet. While this appears of gigantic size when compared with our Saturn C-5, which is but 350 feet high and only 33 feet in diameter, he points out that by shipbuilding standards the Sea Dragon is really small. He also proposes that it be handled just like a ship.

After the construction and completion of each stage it would be towed out of drydock to the assembly and checkout lagoon at Cape Canaveral. At dockside the stages would be mated, the first fueled with kerosene and the second stage fueled with liquid hydrogen. The assembled rocket would then be towed several miles off shore and the oxydizer — liquid oxygen — would be taken

aboard. When completely fueled, the Sea Dragon would float on its side half-submerged. This would make it highly accessible for maintenance. When erected in the water it would be two-thirds submerged. The completed vehicle would then be towed to the launch site some 37 miles from Cape Canaveral where it would be erected and fired out of the water.

At launch the gargantuan single engine of the first stage, with a nozzle 75 feet in diameter, would fire to lift it out of the ocean and continue firing until the propellants are consumed. It would achieve a speed of about 7,000 feet per second and it is at this speed that the first stage would re-enter the atmosphere. It would use high drag devices to slow it down so that it would impact the water with a speed of about 450 miles per hour. If a parachute were used, it is possible to cut the speed to less than half of that if necessary.

The second stage would then fire and, when the propellants had been exhausted, the second stage will have achieved orbital velocity at an altitude of 300 miles. After discharging its cargo, retro-rockets would fire to bring the second stage back into the

atmosphere and, by a judicious choice of firing times, it could land near the launching site. Both stages would now be towed to the drydock for refurbishing. Thus the Sea Dragon concept could continuously place from five to seven times the payload of the Saturn C-5 in orbit.

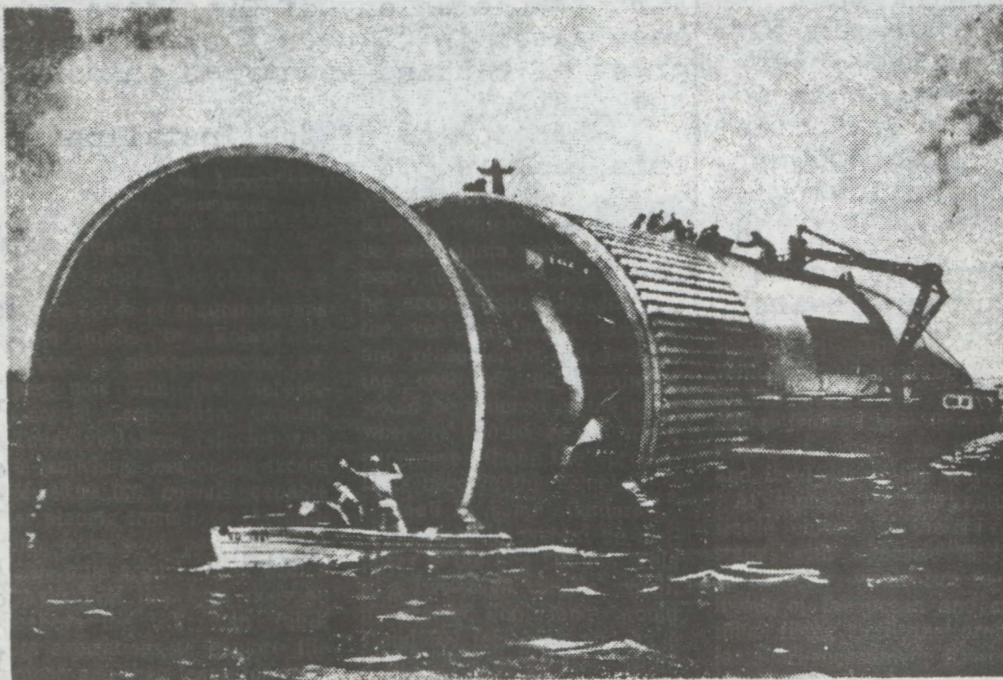
Won't wear out

Captain Truax points out that the merit of this proposal is that the stages will not wear out, nor will they deteriorate in the corrosive salt water. The reason is that the material of which the vehicle is built is extremely rugged. In thickness, the shell will vary from one-half inch to six inches depending on the stage material and design. The assembled vehicle will definitely not be fragile and can ride out any storm which the towing vessels can survive. When the stages fall into the sea there will be little delicate equipment aboard which can corrode or be destroyed. A coat of paint will protect the metal of the shell and the nozzle may be made of a salt water resistant material — perhaps stainless steel. Thus he expects the stages to be used at least 100 times, and the only reason this limit has been set is because of the drop in reliability — not because of wear.

The Sea Dragon concept can be justified on economic grounds. It will have but a single engine in each stage. The propellants will be pressure-fed to the engine, thus eliminating the complex pumping systems with their intricate pumping mechanisms. This means the system will be one of great simplicity with little chance for malfunction.

All of the answers are not yet available, for engineers and scientists are aware of the difficult problems involved in a scaling-up operation. Yet this system has so much merit that a detailed study should be made and the concept should be thoroughly explored, for it may well prove to be the vehicle of the future.

Today we desperately need the ability to place large payloads in orbit. Here is one method by which this objective may be achieved.



The "Sea Dragon", designed to orbit a 40,000,000-pound payload, slumbers half-submerged

while being readied for launch from its ocean mooring.

Can We Communicate With Distant Planets?

Our there, somewhere, are beings we soon may be talking to Here is a scientist's view of how our future communications across space will work. The author is a professor of physics at De Paul university and Chicago TV educator.

by DAN Q. POSIN

We are on the threshold of an exciting breakthrough in space. We are almost ready for space conversation. In a few short earth years we will be ready to take part in some two-way exchanges with our stellar neighbors.

"But if there are beings on a planet in some other solar system," you might ask, "why don't they come here?" Very good. But would you set out on a journey that might take 5,000 years on the premise that the star you're shooting for might have an inhabited planet near it?

What, then, would these beings do?

They would try to communicate with other solar systems. And if beings on some planet received a reply from a planet in some other solar system, the two would be in business.

After a long and thorough exchange that would bring comprehension of the nature of each other's society, a journey might indeed be undertaken.

★ ★ ★
IF WE COULD communicate by television, we'd learn the language of beings on another planet in hardly any time at all. Actually, isn't that the way we learn a language? We SEE an object and we hear the sounds which describe it. It is, however, most difficult to transmit television to an unknown civilization. Would "They," for in-

stance, have the same scanning circuits? Hardly.

Radio signals are more easily transmitted and received, and these already have been sent from earth to Mars and to Venus. Yet this distance is relatively short, for planets belonging to one sun are relatively close to each other.

Mars, in certain portions of its orbit, is only about 34 million miles away from us. Venus is yet closer, on occasion being only about 26 million miles distant. It is true that Pluto, our farthest sky neighbor, is some 3.6 billion miles away. Yet even Pluto is in our "back yard," when we begin to compare its location with that of planets belonging to other suns.

It is about 25 trillion miles to the nearest other possible sun or star. Thus, we have the ratio 25,000,000,000,000 to 3,600,000,000, which is about 7,000 to 1. For this reason, it is not easy to make a drawing of our sun with its family showing other suns. The scale is too restricted. That is, if we are required to show our solar system with its nearest star. Note that, if we draw Pluto at about 1 inch from earth, we should draw the nearest star at 7,000 inches, or about 583 feet from earth!

NOW LET US SKETCH our sun with the star A, and stars B, C, and D and billions of others much closer together.

The farthest galaxies detectable by present radio tele-

scopes are so far away that their light takes several billion years to reach us.

The distance N between galaxies is so great that it takes light about 1,600,000 years to travel from our galaxy to the Andromeda galaxy. Therefore, the distance is about 9,600,000,000,000,000 miles, because light, traveling at 186,000 miles per second, goes about 6,000,000,000,000 miles in one year. This distance, 6 trillion miles, is called one light year.

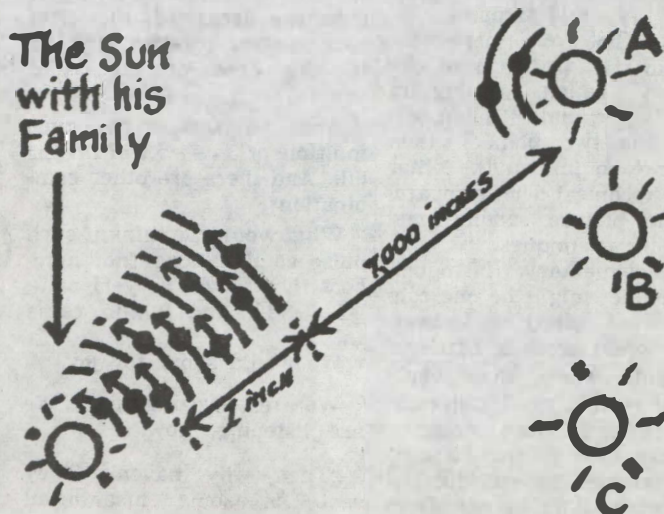
★ ★ ★
EARTHLINGS CANNOT even at present send technically intricate messages to the planets of the stars nearest to earth. To the earth's own planets, yes, for the farthest,

Pluto, as we have said, is only about 3.6 billion miles away. The nearest star, or sun, with its family, is about 25 trillion miles away.

Naturally, the sending of TV images is a far more difficult task than the sending of a single broken-up radio signal or "modulated" frequency. TV broadcasting across vast distances can be accomplished by the use of cruising relay satellites — and not only those close to earth, but even those far out in space. Already there is a design for a satellite called the Heliodyne, able to wander wherever it may be sent, unconfined by a mere elliptical orbit.

Such free wanderers, then, could constitute amplification and relay stations for the jockeying of TV pictures not only between the planets of a solar system, but also between two or more solar systems.

Even now, from the depths of space, earthlings can receive simple signals. Radio telescopes have received electrical waves from stars, from dark space regions, and from whole galaxies or vast collections of stars as far distant as



6 billion light years — a distance of 6,000,000,000 times 6,000,000,000,000 or 36,000,000,000,000,000,000,000 miles.

IF WE SIMPLY SCAN the sky, the signals that we receive are, in general, a composite radio-wave jumble produced by flaring stars, excited space gases, and colliding galaxies.

What we need to do is to eliminate such space static and focus our attention upon a region near some single star, in the hope that the star or sun may have a planet with beings who could send powerful messages — and would in fact be sending them — toward us.

And this we are doing. We have begun to turn our radio telescopes toward the nearby stars that resemble our sun and therefore may have planets inhabited by intelligent beings. The initial endeavor, Project Ozma, was a listening search that lasted two months. No intelligent signals were received. Other efforts, someday, may be successful.

★ ★ ★
IF THERE ARE intelligent beings in nearby solar systems, what kinds of simple introductory signals might they send? After all, sending pictures across trillions of miles presupposes mastery of a very advanced technique. Clearly, it takes far, far less power and engineering skill to send a Morse code type of signal than to send TV or radio still pictures. Moreover, the sending of pictures would imply that the receiving planet would have intricate equipment ready with the proper circuitry to receive the pictures and reconstruct them. Yet, it all could happen.

It is, however, more sensible to start in the most elementary fashion, building up two-way communication between the two planets, then letting each inform the other of the technical details regarding the picture sending and receiving techniques.

An elementary, introductory contact might be one consisting of electrical pulses. First would come a batch of one pulse alone, then would follow two in close sequence, then three in close sequence.

Could such pulses of electrical energy be accidental if they ranged, let us say, from 1 to 100? Not likely. Would



Earth with Radio Telescope



Supposing that millions if not billions of years ago "They" began sending pulses toward our star in the hope that this sun might have circulating planets with intelligent life. Supposing that for ages and ages They kept on trying us out and there continued to be no response. They would naturally try elsewhere, wouldn't they? Wouldn't you?

A fraction of a cosmic second ago, Heinrich Hertz (1857-94) discovered electrical waves and Guglielmo Marconi (1874-1937) made them into radio. We have barely entered the age of radio communication. Other beings may

such a contact, then, be suitable for our purpose? It would. Perhaps many solar systems have planets sending out such elementary contact-establishing pulses right now.

And what would you think if you received this set of pulses: three in close sequence, then four, then five? Later a group of six, followed by a group of eight, and this by a group of ten? And then pulses that by your count you would find to be grouped in this way: 9-12-15; 12-16-20. . .

★ ★ ★
TO THE MATHEMATICALLY-minded person on earth, these pulses could suggest sides of right-angle triangles.

The 3-4-5 relationship of right-angle triangles means something very special to us. We would realize at once that "They" knew that if we had such triangles, there is the inevitable and exciting conclusion that if we make squares of 3 by 3, 4 by 4, and 5 by 5, then the areas of the first two squares together add up to the area of the third square.

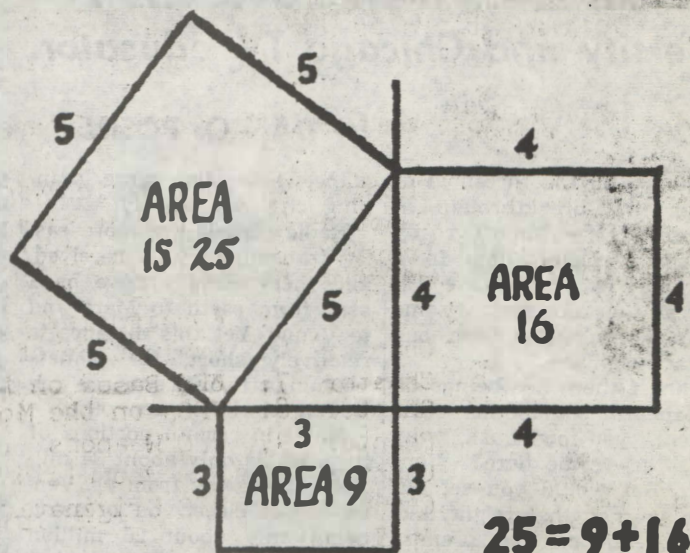
And in fact, any such multiple of 3-4-5 will fill the bill. And there are other combinations.

What would we think if such pulse combinations (not numbers themselves, as yet) as 3-4-5, 6-8-10, and 9-12-15 came in?

We would shout for joy.

We are searching space. We are listening, now.

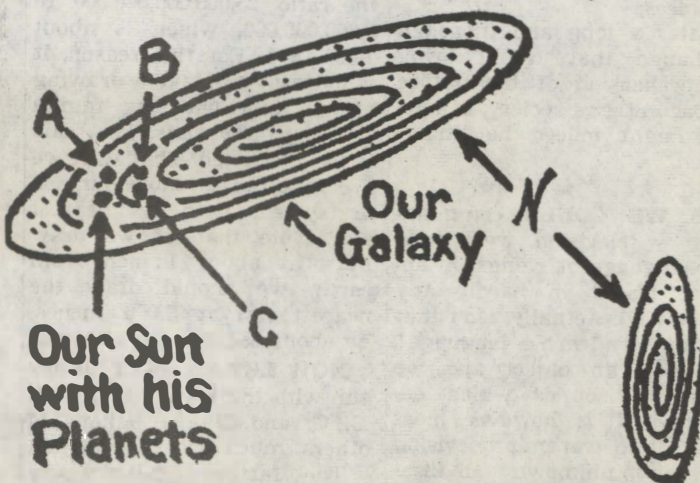
"Then why haven't They sent us some meaningful pulses?" you may well ask.



"If you think there are so many inhabited planets — and if you think that millions of them, two by two, have been communicating with each other?"

O.K. When did we first start listening? In 1960.

have had this power for billions, and established contact with each other. Someday we will contact them. For the moment, we can only listen.



A D V E R T I S E M E N T

Announcing the publication of

The New Jersey Association on Aerial Phenomena's

"THE SHADOW OF THE UNKNOWN"

During the past nineteen years of concentrated UFO activity many have come forward with their opinions and evidence they could gather in those early years but were never able to find out the real answers to the UFO mystery because of insufficient evidence. Such great researchers as Len Stringfield, Tom Comella, Lee Munsick, Ted Bloecher, Max Miller, and many more, have contributed much to the UFO cause to bring UFOlogy where it stands today.

And today? Out of all this evidence brought forward nothing has been done to collect all this evidence into one volume to answer the many unanswered questions that remain. Such questions as Where Do They Come From, Why Are They Here, How Are They Propelled, Why The USAF Secrecy, are answered in this book.

The Chapters contained in this 125-page mimeographed book are as follows:

- Chapter 1: The Basic Evidence
- Chapter 2: Evidence Suggesting Intelligent Control
- Chapter 3: Physical Evidence
- Chapter 4: The USAF Investigation
- Chapter 5: Foreign Investigation of UFOs
- Chapter 6: Evaluation of the Contact Claims
- Chapter 7: UFO Bases on the Earth
- Chapter 8: UFOs on the Moon and Mars
- Chapter 9: UFO Weapons
- Chapter 10: UFO Propulsion
- Chapter 11: UFO Origination
- Epilogue

Why the concentration on one area of the globe and sighting waves? Why the changes in shape? Why the phenomenon of Angel Hair? Why does the USAF continue its policy of ridicule and explain-away techniques? What is responsible for skyquakes? All of these, and many more, will be presented in this scientifically prepared analysis of the UFO subject. The release date for this book is scheduled for early September. Price: \$1.50 in the USA and Canada and a foreign edition will be made available for \$2.00. Please send your order and make all money orders and checks payable to Edward J. Babcock, Jr., Director, N.J.A.A.P., 15 Tyndall Road, Kendall Park, New Jersey, U.S.A.

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