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450 Colvin Ave
Buffalo 16, N.Y.

Mr. Robert P. Young, Jr
Box 996, St. John,
New Brunswick, Canada

May 23rd. 1954

Dear Mr. Young:

We have been in agreement that Mr. Wilbert B. Smith's questions, related to superphysical matters, should be answered, fully and to the best of my ability. Altho unavoidably delayed, this project has now been completed and I am attaching a copy of same, for your edification.

Please be assured that matters of this kind and scope cannot be expounded more briefly without considerable sacrifice of clarity and usefulness. It could not be done by merely writing a letter. It had to be in the form of a "paper" or treatise.

Mr. Smith, I am sure, can assure you that it is quite customary for a scientist or researcher to submit a "paper", of several pages on some given subject; such as "The Love Life Of The Bullfrog", for example. What I have submitted to Mr. Smith, however, deals with not one but several questions a 100 times more important and abstruse than the above topic.

The attached treatise, you will note, includes: -

- 1/ Best possible answers to both the specific and non-specific questions.
- 2/ A fully explanatory preamble to each question.
- 3/ A separate, bibliographical source of more answers to questions of this kind.
- 4/ Suggesting avenues of research contact and collaboration with other scientists engaged in superphysical fields of investigation.
- 5/ The organized treatment suggests a set-up for my answering future questions of this nature from Mr. Smith.
- 6/ I have added an extra-curricular subject, i.e. my discovery of a new electrophysical effect which I hope you and Mr. Smith will find interesting.

Hoping that my carrying out of this project meets with Mr. Smith's and your approval,

CC: Mr. Wilbert B. Smith

Sincerely yours

Edw. S. Schultz
Edward S. Schultz

vibration or frequency. However, there is no sharp or absolute dividing line between the physical, the astral or the mental, etc. planes. They all merge and the octaves thereof are all part of one vast spectrum of matter or its equivalent energy; a spectrum of manifestation that keeps rising in frequency of vibratory rate until its upper limits merge with infinity...or God!

Our physical etheric matter links with and forms a bridge between the physical and the Astral (4th. Dimensional) plane where, according to the well founded teachings of informed occultism, we will live and have our being in the "next life". The "ectoplasm" of the spiritualists is etheric matter. Physical science already has many examples of evidence, instrumental, etc. related to etheric physics and the gap is closing so that Astral matter will soon yield to our instruments. This was not possible until electronic principles became available. The Germanium transistor promises much in that direction.

At this point I will bring out the fact that the E-1 ether not only is part of and interpenetrates all our physical matter, but pervades all space and the entire cosmos, as well. This is the universal ether or Aether of both the physicists and the occultists. In the interest of brevity I cannot go into the wonderful properties of this E-1 Aether. It is simpler and more informing for me to refer you to the attached bibliography in general and the first one thereof, Occult Chemistry in particular, which offers more specific information on the ethers than any other source I happen to know of. The data is both esoteric and exoteric. The data in this book (Occult Chemistry) could go a long way toward throwing light on your problem, i.e. qualitative Vs. quantitative aspects of matter and ether.

Having fixed our bearings in the, above, qualitative aspects, we can go on to the gist of your problem, i.e. the need for a quantitative or mathematical approach, workable in terms of contemporary science.

Since modern, exact science does not have too much mathematical understanding of even its own brand of Aether, it should not be surprising that a similar picture exists in re to the metaphysical ether concept. However, this status quo is far from being as hopeless as it is usually rated. Much progress has been and is being made in re to making metaphysical ether theory workable to practical ends. The picture in that respect has been improving fast in recent years and great discoveries are imminent. To help you with your ether research problems, I would suggest: -

- 1st./ Reference to the bibliography which I have made up and attached hereto, for the "ready-made" information.
- 2nd./ I feel rather confident that if you and/or your associates study the available qualitative matter and ether data, as above, you may be able to work out some quantitative formulas of your own.
- 3rd./ I happen to have an interesting file collection of articles, data, etc. related to the integration of occult and scientific knowledge on matter, ether, energy, motion, electronics, nuclear physics, etc. and, as and when more specific questions arise in your interests or work, I would be glad to make them available to you, to whatever objectives you might have.

I have a file collection of thousands of items, articles, reports, clippings, etc. related to the orthodox sciences and fields of engineering, as well as metaphysical and occult references, as well as file information that overlaps into both orthodox and metaphysical realms of research. In general, I have specialized in gathering rare, unusual, little known or unique items of research information; unusual physical, etc. properties and "effects". This has enabled me to serve as a consultant to a number of research colleagues, i.e. scientists and engineers, etc. with high degrees and attainments in their fields. I have also been able to give such contacts the benefit of an intuitive faculty that I have for summing up a given problem and coming up with some ideas and suggestions in re to some solution or ... where or how some light on the matter might be found. I have still another research asset, the nature of which I may disclose at a later time.

I have mentioned the above because, as you may know, by the time you receive this, our good and mutual friend, Mr. Robert P. Young, Jr. plans to make it possible for me to have a visit with you within, possibly the next ten days. As and when this materializes (I am looking forward to it) I plan to bring along at least a number of items from my technical files that may be of interest to you. Some may and some may not, be new to you.

4th. You may or may not be aware of the fact that there is a rather heavy "underground" research movement or activity among a certain class of scientists, engineers, etc. concerned with a deep and growing interest in metaphysical, superphysical and occult study and research. Most of them are men with high scholarly degrees and scientific achievements. Some are retired from teaching professions in science and engineering. Most of them have specific objectives in this esoteric field of research and much, rather astounding progress has been made. Some are on the verge of tremendous discoveries.

It is natural and logical that the above persons keep their special research interests and activities very sub rosa as far as the outside world and the press is concerned. They also keep these matters from each other Except, if or when they happen to know that the other party is also engaged in that kind of activity. I have been instrumental in bringing several such individuals together in this and other countries.

It so happens that I have been and am in contact with many such individuals, research groups, more or less secret laboratories, etc. and I also know, in most cases, what they are working on, their objectives and degrees of success. I am a member of some of these groups, including one in England. Because of my well rounded out acquaintance with both the orthodox and the superphysical sciences, plus my file facilities and certain other reasons, I have been and am serving as a consultant to a number of them. This entails a high sense of honor, duty, etc. and a responsibility not to betray a research confidence that has been entrusted to me. Nevertheless, a good deal is always left up to my own judgment, etc. and there is a good deal that I am in position to pass on to you. One reason for this is that you happen to be eminently qualified and have a grasp of both orthodox and the more superphysical sciences and fields of interest.

I am in position, therefore, to put you in contact or introduce you to some, if not all, these individuals, groups, etc. with interests and objectives similar to your own. My point is,

that, aside from the obvious advantages of being able to make contact with these groups and their projects; in relation to both your official and unofficial duties and interests; such contacts might well put you in position to get specific answers to such questions as you might have on etheric physics and any number of related problems.

The individuals referred to herein work in various ways. Some are heads of companies and have good lab. facilities, means, etc. Others have private labs. while some are working on the proverbial "shoestring" or are looking for backers of their projects. Some of them are based on Foundations or are backed by Foundations. I know of a rather elaborate electronic, etc. lab. on the Maine coast, which has been and is engaged in the most precise and advanced research concerned with co-operation with entities still on the Astral plane. It involves elaborate work and experiments involving the placing of a "medium" in various kinds of Faraday cages, with and without the setting up of magnetic, electrostatic and other kinds of fields. Much data has been and is being compiled in this work. This is only one of a number of examples of what I am in touch with. The work and interests includes the higher aspects of Saucer physics, Saucer propulsion, etc. as well as electronic or equivalent communication between this and the Astral plane. When I see you and if you are interested, I can tell you some of the adventures concerned with Astral communication; which many scientific workers deem inevitable or "around the corner".

I have also cited the above in evidence that many scientists, with and without top honors and degrees, have been fast developing a common ground of research understanding between orthodox and the superphysical or borderland sciences. And...are applying the integration to "out of this world" specific ends and projects. There was a time, not long ago, when the human mind, psyche or mental organism was the one and only instrument via which superphysical rays, radiations, forces, etc. could be detected or manifested. However, modern science in general and electronics in particular have supplied new and amazingly delicate instrumentalities, of a physical nature, that can and do detect and measure some of these little known forces, etc. The bibliography attached hereto can supply a good deal of information on this new and growing status. I might add, as bizarre as it may sound, that I have and am in touch with and have worked on some projects that have been sparked off or suggested, in some detail from scientists, inventors, etc. from the "other side", i.e. Astral plane. Many such projects have languished for lack of experimental facilities, sponsors, etc.

SECOND QUESTION: The term "planes of vibration", what it means, in a metaphysical sense. Secondary questions related to this problem.

There are other terms that are synonymous with the above but "planes of vibration" is one of the most common. It is so used because it is descriptive of the most fundamental property of any plane above the physical; altho the term applies equally well to the physical as we know it.

The most basic property of the higher planes, i.e. etheric, astral, mental, etc. (this corresponds to the 4th. 5th. etc. dimensions) is the fact that they are higher octaves of vibratory rate in the general, material spectrum. I say "material", because the higher planes are also material, even tho they do not respond directly to our senses. The matter of each plane has its own properties and characteristics. If the matter of these higher planes strike one is if very immaterial or made of the stuff that dreams are made of; it is because our sense of Reality or what reality is, is very much at fault. As you know, our physical is mostly space, i.e. emptiness. Nearly all the mass is concentrated in the nucleus. The nuclei in general and the circling electrons in particular, in turn, are merely fields of force, which are ghostly indeed. But, our physical matter is even more ghostly in another sense. As we know the distribution of atoms in space is in about the same proportion as are the steller bodies in space. So, altho, to our physical senses, our matter seems to be the densest, in reality it is just the reverse. Because etheric, astral, mental, etc. matter are made up of particles that are far more numerous and closer together, such planes are denser than ours, regardless to the lack of response to our senses, instruments, etc.

It all focuses down to the term REALITY and what is meant by it. It would seem that its a term that would confound philosophers and scientists alike and that there could be no common ground of agreement on it. There is, however, a definition and understanding of Reality that is quite simple and adequate to the understanding of these various octaves of matter, energy or vibration; all quite synonymous. There is one Supreme Reality, i.e. the Absolute or God. Within this framework or reference frame of the Supreme Reality, there is almost an infinite number of relative realities. It is not necessary for me to dwell on the finer gradations of the relative realities, about which much could be said. Instead, we need only focus attention on the main generalizations of Reality, such as the planes of manifestation or octaves of vibration, such as the physical, etheric, astral, mental, etc. Each plane is, within itself and to its inhabitants, a complete and self sufficient reality. In relation to any given plane or reality, all other planes or realities seem ghostly or "immaterial". Ordinarily, each plane is so self sufficient that there need be little or no concern about the next plane or reality, above or below it. However, when, in the course of evolution, the inhabitants of any given plane or reality begin to get experimentally research minded about another plane, as we are now about the etheric or Astral planes, we encounter an impasse which, at first appears to be unsurmountable. There appears to be no "common ground", since "our" reality seems to be the only one that seems to make sense, while the other plane strikes us as a visionary concept and nothing more.

We can think of or postulate three ways out of the impasse, i.e. the difficulty of understanding or working with a plane or Reality of manifestation other than our own.

(a) We can work within the reference frame or framework of the other plane, with all due respect to the laws and properties of the adjacent Reality, without bothering about the transition that would enable us to work the other plane with the same tools of logic, instruments, etc. that we use in our own, physical plane or Reality. This is as logical, in practice, as it is for us to either use Euclidean geometry on a given problem or that which has been developed by Einstein. Each is as real as the other, within its reference frame and the choice can be ours in terms of convenience or the envisioned objective. Much can be done via this method.

(b) We can continue to make use of and develop to even a higher and better degree, the most sensitive instrument we know of to date, for delving into the higher planes, i.e. the human mind or psyche.

A relatively vast and rich store of information, etc. on the higher planes, their laws, etc. have been gathered by this means. I am referring, of course, to psychic mediumship. Not the too-often-faked, common, fortune telling mediumship, but the rare cases of mediumship that are on the highest possible level of honesty, integrity and capability. I know of only about four cases of mediumship worthy of sincere and scientific consideration and, one of them, in particular, is so to an extraordinary degree. For a number of years, on a non-profit basis, he has been available to Dr. Meade Layne, of the BSRA, and his extremely high psychic development has kept the BSRA in very close touch with a group of very high minded scientists and advanced entities on the "other side". And, thru this group, who call themselves the "Inner Circle" Dr. Layne has, thru skillful and sympathetic questioning, been able to compile the most amazing file of information, data, etc. on the life, conditions, etc. on the "other side" of life in general and, on a great wealth of strictly scientific problems in particular. Most of this material has been published and has been and is available thru the BSRA, on a non-profit basis. Dr. Layne has specialized in getting the aid of these entities on scientific matters and questions. Almost every possible question related to science has been asked of this group to date, involving some of the most abstruse problems, and the answers have been profound and that provoking in the extreme. Material for completely new scientific discoveries have been passed on to us in this manner. The subjects handled and the experiments made in co-operation with these highly intelligent entities, defy belief. We know the intimate history, period of life when on the physical plane, etc. of each and every individual in this "Inner Circle". One of the subjects most thoroly treated via the above source of "out-of-this-world" information is the subject of the Saucers or Aeroforms, their origin, physics, methods of propulsion, etc. and this source is constantly being referred to as each new Saucer development comes up. The Saucer information so obtained, you can be assured, is more thoro and explains more of the many inexplicable Saucer phenomena than any other source, theory, etc. So much for this method of bridging the gap between our and the Astral Realities. A great deal more will be forthcoming on this, in due time, if or when you happen to be interested.

(c) This methodology of bridging the impasse or gap between planes or octaves of reality is concerned with the growing, esoteric

activity among scientists and groups, such as has already been outlined. Via electronics, radionics, radiesthesia, etc. they are making a good job of closing the gap between, at least, the physical and the Etheric-astral planes of reality. I have already dwelled on this in some detail; the attached bibliography can tell you more and, in the future you can address your own, specific questions on this approach, which is the one you are most interested in.

Via advanced mediumship, inspiration, mysticism and intuition, etc. much work has been done and much information compiled that helps to close the gap between the various planes in general and the phisico-astral in particular.

However, the present difficulties of applying scientific methodology to the higher planes is so great that it has been and is being devoted almost exclusively to that which separates us from etheric and astral matter. If and when we have managed to more or less master the etherian and astral physics; with which we now have but an embryo relationship; we will be able to build or create spaceships and other immense scientific advances on par with the Saucerians. However, a beginning has been and is being made in that direction; a good deal more than most people would or could imagine.

Your Secondary Questions . . .

(1) In re to "planes of vibration", what is vibrating?

The matter of any given plane does the vibrating. In a finer sense, of course, its the fields of force of such matter that is vibrating, but, for common understanding we can refer to it simply as matter. In referring to such matter as vibrating and trying to deal with the laws governing same; we at once come up against the problem of relative reality. The scientific logic, laws, senses, instruments, etc. of our own physical plane or reality, can not adequately deal with the Reality of the next plane and must be either discarded for other "tools" or must be properly modified. It is like the transition from one to another kind of Geometry, etc. The attached bibliography can, considerably, help to bridge the gap between the physical and next-plane Reality. I would, specifically, refer you to the listed books, etc. by number; i.e. #1 - #2 - #3 - #5 - #8 #12 - #15 - #16 - #22 (especially) and #24, anyone of which can be made available to you from my private collection; until or unless you care to obtain copies of your own.

(2) What degrees of freedom has it, i.e. whatever is vibrating - see (1) above?

The degree of freedom, of etheric, astral, etc. matter, to vibrate, is much greater than that of the physical plane. First, because there are many more particles or units of the matter, per unit of the space of that plane. Second, because such units are closer together, making it more homogenous and subject to forciful stimuli than physical matter which, as had been pointed out, is relatively "ghostly". I would refer you to the attached bibliography in re to the specific properties of the matter of other planes of Reality

There are several fine and comprehensive volumes, by A.E. Powell, concerned with the detailed and complex properties of etheric, astral, mental and other planes of matter, which see in the attached list. One singular "physical" property of etheric, astral and mental matter is the fact that each, in an increasing scale or degree, can be wielded, handled, manipulated or formed into shapes, etc. by human thot, will or emotion. The modus operandi of this, its consequences and end results in terms of human behavior, character, evolution, etc. is the content of many volumes. Altho such a property of matter might seem to have no applications in terms of our physical plane; on the contrary, it has many known and lesser known applications. For example, via the use of this law, it might be made possible to help attract the attention of Saucer space craft to your Project-magnet observatory. More on this at a later time or a personal meeting.

(3) What mathematical expression will describe this vibration?

First, it would depend on what particular plane of vibration or Reality is being referred to. In general, the closer the plane is to our physical, such as the etheric, the more it is amenable to mathematical expression. As we go higher, our mathematics more or less lose out. However, one of our most esteemed BSRA members, John Hilliard, who specializes in the mathematical treatment of metaphysical problems and other states of matter, has attempted to come to grips with the transition to another kind of reality, in a booklet published by the BSRA (\$2.00) called "The Metatron Theory". You will find it listed in the attached bibliography and you might find it an interesting, mathematical treatment of the higher vibratory rates of matter. He treats the etheric, mental and astral states, as related to Saucer phenomena, etc.

(4) What numerical values are associated with the vibration?

This is virtually a restatement of the above question (3) and the same answer will more or less apply.

(5) What fields are associated with these vibrations?

In general, the field structure of higher plane matter is less known than that of the physical, altho even that is not complete nor final. Such field structure as we do have a glimpse of, would apply to adjacent planes of matter, i.e. etheric and astral. See reference to "The Metatron Theory" above. We must not be surprised at a field structure radically different from physical matter. For example, the field structure of matter on the Mental or 5th. dimension corresponds to what we know as Divine thot or Will! On our lower plane, this same force or Divine thot or Will expresses itself as electromagnetic fields. In this sense, if not Einstein's, the entire Cosmos can be expressed in terms of a Unified Field, a field that, in its last and final expression... is the Thot or Will of the Absolute or God! Nevertheless, some interesting inroads into the field structure or force of etheric matter is given in the attached bibliography, Occult Chemistry, for example, which traces the evolution of matter back to its divine source in the most "scientific" terminology possible in metaphysical research.

SECRET

MAR 10 1950

PRELIMINARY REPORT ON INITIAL EXPERIMENT GEO-MAGNETIC RELEASE

OBJECT

The object of the experiment was to check qualitatively certain theoretical points concerning the possibility of converting geo-magnetic energy into electrical energy.

THEORY

It was reasoned that if a core of ferro-magnetic material such as silicon steel is placed in the earth's magnetic field the flux through the core will be equal to μ times H. If a coil is wound around this core in such a manner that the maximum flux passes through the coil we have a condition under which any change in flux through the coil will result in an e.m.f. being induced in the coil. If the μ of the core can be changed by some means, then the flux passing through the coil will also be changed. If a valve circuit (rectifier) is incorporated in the secondary winding then energy will be withdrawn from the collapsing magnetic field during 1/2 of the cycle only. If the μ of the core varies sinusoidally the flux will be established by virtue of the MFF of the earth's field and will collapse as the μ of the core decreases and in the course of collapse will give up a portion of its energy to the secondary circuit.

APPARATUS

The equipment for checking the foregoing qualitatively consists of a small choke coil such as is used in power supply filters having an inductance of approximately 7 henries with zero magnetizing current and a core of silicon steel. A shield was wound around the

core in such a manner as to effectively separate the winding already on the core from the secondary winding which was to be wound thereon. The shield was insulated so that it did not comprise a closed circuit. A secondary winding consisting of 25 turns of magnet~~ed~~^{al} wire was wound ^{around} through the insulated shield in such a manner that the mutual inductance between the coil and the core of this winding was zero.

OPERATION

The existing coil which was an integral part of the choke was connected in series with the plate circuit of a 6L6 radio tube, the grid of which was driven from a 15 Kc. oscillator. The 6L6 tube was selected because its plate current of 40 milliamperes practically saturated the core thus reducing its permeability μ to a low value and the excitation on the grid of the tube allowed a plate current excursion such that the current reached almost zero so that the μ of the core should increase to a higher value. The secondary winding was connected to a voltmeter having an ^{av}external resistance of 2000 ohms.

OBSERVATIONS

It was observed that when operating with the core oriented in line with the earth's magnetic field the secondary voltmeter gave a reading of approximately .3 volts. When the core was turned at right angles to the earth's field the voltage dropped to zero. No measurable change occurred in the excitation circuit for the various orientations of the core.

CONCLUSIONS:

It was therefore concluded that the energy which operated the voltmeter came through the collapse of the earth's field which was induced in the core.

In view of the fact that the apparatus was extremely crude and very difficult of precise measurement it was concluded that the observations were purely qualitative in nature and that more suitable equipment should be built upon which adequate measurements may be made to ascertain whether or not the energy in the secondary circuit actually came from the collapse of the earth's field.