

Everything's Perfect [Rev. 20180731]

By J — Latest revision: http://allis.foundation/Everythings_Perfect.pdf



ABOVE: IMAGE BY UNKNOWN — DURING TIMES OF STRUGGLE, PAIN, OR DIFFICULTY, SIMPLISTIC TRUTH BECOMES HARD TO ACCEPT. *1

"At the beginning of our way we did not suspect that our turning away from God could have such disastrous deadly consequences and that we would necessarily become more and more deeply involved in guilt. At that time we could not have known that so much loyalty and willingness to sacrifice on the part of the German people could have been so badly directed by us. Thus, by turning away from God, we were overthrown and had to perish." —*Hans Frank, being remorseful at the Nuremberg Trials, Aug. 31, 1945, before being convicted and executed.*

The Galactic Cycle

Let us now turn to another of the major evolutionary problems: the galactic cycle. The use of the term "cycle" in this connection may seem to be putting the cart before the horse, since no evidence of any cyclic course of evolution has heretofore been recognized, but in a universe based on the Fundamental Postulates of this work a galactic cycle is mandatory. As brought out in the discussion of the permanence of the major features of the universe, half of this cycle is located in our material sector of the universe and the other half in the non-material sector.

The necessity for a means of interchange between the material and non-material sectors has already been pointed out. This, of course, involves the existence of some process whereby the rotational space displacements of the non-material universe can be converted into the rotational time displacements which we recognize as matter. The nature of this process will be discussed later, but it is evident that new matter or potential matter entering the material sector of the universe from the non-material sector as a result of such a process cannot have any preferential location in space, since the physical entities of the non-material sector are not localized in space. It will also be shown in the subsequent discussion that all of this new matter is produced in the form of individual atomic units. These newly produced atoms uniformly distributed throughout space come under the influence of gravitational forces as soon as they are formed and a process of aggregation begins. As one vast period of time follows another and gravitation continues its slow but unremitting action the aggregates grow larger, the atoms become particles, the particles become clouds, the clouds become stars, the stars gather in clusters, the clusters become galaxies, the galaxies become larger galaxies. In the meantime the space-time progression moves the galaxies outward away from each other in space and new aggregations form from new matter and remnants of the old in the areas left vacant by the larger units. In due course these new formations grow older and larger and follow in the paths of their predecessors, leaving new vacancies to be filled by still other aggregations originating in the same manner. Each generation has its period of development, comes to maturity, and finally reaches the point of reconversion into the non-material sector of the universe to start the second half of the cycle. In order to make certain that the basis for this theoretical picture is clear, let us look at the gravitational situation as defined by the Fundamental Postulates. Every location in the universe is moving outward from every other location at unit velocity because of the space-time progression resulting from the equivalence of the basic units of space and time. Simultaneously all material atoms are moving in the opposite direction, inward toward each other, because of their rotational motion. At the shorter distances the inward motion exceeds the outward motion and the atoms move closer together. As the distance increases, however, the rotational motion toward any specific location decreases according to the inverse square relation and at extreme distances the gravitational motion is reduced to the point where it is less than the oppositely-directed velocity of the space-time progression. Beyond the point of equality the net resultant motion is outward, increasing toward unity (the velocity of light) as the distance increases.

These motions control the large-scale aspects of the material universe. Within the range of effectiveness of the gravitational motion, or gravitational forces, if we wish to speak in terms of the force equivalent of the motion, all units of matter move inward toward each other and if given sufficient time must join. Various subsidiary motions may control the nature of the combinations; for instance, they may cause orbital motion rather than actual consolidation, but they cannot prevent combination other than temporarily. Within the effective gravitational range, therefore, the aggregates of matter are continually growing. At the same time the space-time progression is increasing the separation between each of these aggregates and all others which are beyond the gravitational limit. The net effect is therefore a process of aggregation and a separation of the aggregates: formation of galaxies and expansion of the universe, to use the familiar terminology.^{*2}

What is Human Consciousness?

Most dictionaries of this distance-time world provide an overly-simplistic definition of the word **consciousness** as "the quality or state of being **aware** or **awake**". This definition seems so bland and insignificant for something that we all intuitively know to be extremely important to humankind. Let us look deeper for a more meaningful description.

In Aurobindo's "The Adventure of Consciousness" he stated that "a change of consciousness is a major fact of the next evolutionary transformation, and the consciousness itself, by its' own mutation will impose and affect any necessary mutation of the body." These words suggest that we are dealing with a **process of nature**, a dynamic developmental process, perhaps even one driven from a genetic level that creates structural changes in the various subsystems of our "total self". **These manifested changes in human appearance and human behaviors we label as developmental changes in human consciousness.**

From a somewhat different perspective, in the early 1960's, the Greens seriously investigated **voluntary controls of internal** human states, both psychological and physiological, and strongly promoted "the psychophysiological principle:

Every change in the human physiological state, conscious or unconscious, is accompanied by an appropriate change in their mental-emotional state and, conversely, every change in the human mental-emotional state, conscious or unconscious, is accompanied by an appropriate change in their physiological state."

Subsequent research by themselves and many others showed that the instrumental monitoring and visual display, continuous in time, of a particular human physiological **parameter** (for which we have some unique measurement instrument) can allow an **attentive** human to voluntarily and **intentionally** modify the **magnitude** of this parameter, thereby altering one's own physiological activity, one's own behavior and the process of one's own consciousness! This work has led to the significant use of **biofeedback** as an important medical therapeutic in today's world.

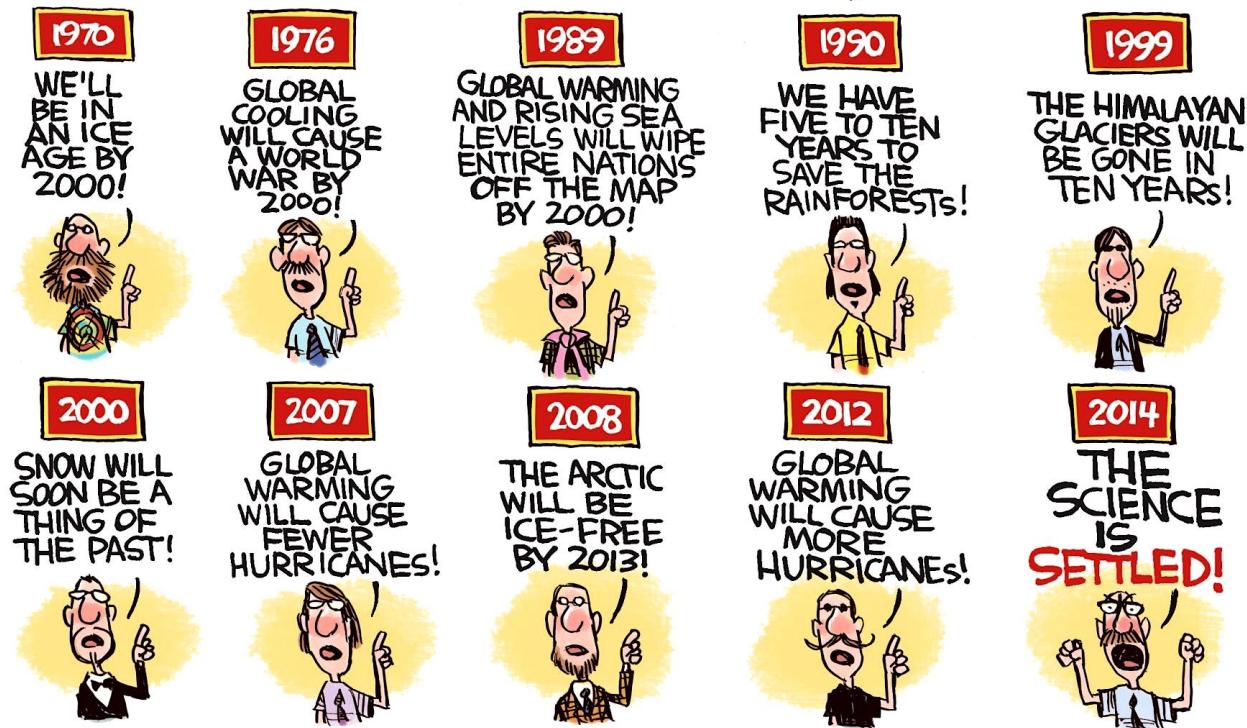
From the foregoing research, we learn about the existence of both (1) **conscious** and **unconscious** states in humans. We also learn about (2) the focused application of their own intention can alter the magnitude of these states and thus the **materialized** level of consciousness of such humans.

The Danish author, Torr Norretrander reminds us that the human **conscious mind** can only process **less** than 50 bits of information per second while the human **unconscious** mind can process **more than** 50 million bits of information per second. Thus, it is the latter that actually gathers the multiple data streams of information flowing through a human at any point in time. It **appears** that our unconscious system gathers such information, organizes such information and refines such information. It then **appears** to create small kernels of prepared relevant information to send to the conscious mind. However, it **appears** to do so **only** if the conscious mind has previously given **meaning** to that topic. If the conscious mind has not given serious meaning to that topic, such information kernels appear to be "dumped" by the human unconscious mind.

From the previous paragraph, this suggests that giving **meaning** to specific information is a very important aspect of/to materialized change in human consciousness.

Further, this author would propose that it is not just an **intellectual awareness** of such specific information that is needed to generate a materialized change in human consciousness... ^{*3}

ACTUAL CLIMATE CHANGE PRONOUNCEMENTS by Scientists : A brief recap



ABOVE: POLITICAL CARTOON BY RICK MCKEE — CLIMATE SCIENCE COMMUNITY FEAR MONGERING DRIVES CONSCIOUSNESS CHANGES. *4

Exposed: How World Leaders Were Duped Into Investing Billions Over Manipulated Global Warming Data

The Mail on Sunday today reveals astonishing evidence that the organisation that is the world's leading source of climate data rushed to publish a landmark paper that exaggerated global warming and was timed to influence the historic Paris Agreement on climate change.

A high-level whistleblower has told this newspaper that America's National Oceanic and Atmospheric Administration (NOAA) breached its own rules on scientific integrity when it published the sensational but flawed report, aimed at making the maximum possible impact on world leaders including Barack Obama and David Cameron at the UN climate conference in Paris in 2015.

The report claimed that the 'pause' or 'slowdown' in global warming in the period since 1998—revealed by UN scientists in 2013—never existed, and that world temperatures had been rising faster than scientists expected. Launched by NOAA with a public relations fanfare, it was splashed across the world's media, and cited repeatedly by politicians and policy makers.

But the whistleblower, Dr John Bates, a top NOAA scientist with an impeccable reputation, has shown The Mail on Sunday irrefutable evidence that the paper was based on misleading, 'unverified' data...⁵

Source of Energy

... You will make a good beginning in building up your comprehension by giving deep thought to the following postulates and axioms which go to the root of the subject. These postulates really define energy but no definition of energy can explain it without great amplification because orthodox thinking has made it impossible.

Postulates Concerning Energy

God is all. In Him is all energy, all knowledge and all Being.

God created His universe with energy which is in Him, not in His creation.

The energy of God's Mind is DESIRE to give expression to idea of His knowing by giving imaged forms to His Being.

Mind KNOWS and thinks what it knows.

Energy lies in Mind knowing but is expressed, or manifested, by Mind thinking.

Energy is still. God's magnetic Light is at rest. God's Mind is the fulcrum upon which the lever of His electric thinking pulsates to give heartbeat to His universal body, created by Him in the image of His knowing.

Energy lies in CAUSE but is expressed in EFFECT.

Axioms

EFFECT cannot be its own CAUSE.

THINKING cannot be the KNOWING which it expresses.

The PRODUCT of energy cannot be energy.

The moving lever cannot be its own fulcrum.

Simulated idea in moving forms cannot be the idea it simulates.

Conclusion

Creation is the product of God's Mind knowing. It is made manifest by Mind thinking.

The PRODUCT of Mind, created by the energy of Mind, cannot be the Mind which created it.

As I said above, these definitions cannot define with comprehension unless amplified patiently, and simply, and with much repetition of example.

This I will do in every day language without the use of any scientific terminology whatsoever, for that is not necessary. If you will review the past lessons you will find that I have not yet used any scientific terms which are not

a part of every day common usage except possibly the word "polarity". Such words as gravitation are scientific terms which everybody understands, and such words only will be used.

If, however, I am obliged to use any other words I will as clearly define them as I defined polarity to be the division of an equilibrium into pairs of opposite conditions. You will never have to look up any strange word of the scientists vocabulary in a terminology dictionary.

Before resuming our subject of energy which motivates the universal heartbeat I wish you to realize that we have not yet, complexed the foundations of scientific principle beyond the principle of The Divine Trinity, nor will I do so unto the very end, for Nature does not complex it.

Nature multiplies the three of The Divine Trinity into wave octaves of nine, which are the same three multiplied by three to create the illusion of a three dimensional universe by the seeming projection of light radially.

And so you will find the simplicity of three unto the very end in all things. Waves of light are the very basic exemplification of The Divine Trinity AND THE UNIVERSE CONSISTS OF LIGHT WAVES ONLY. When we begin to build octave wave fields and explain wave structure you will find nothing more complex in principle than you are perfectly familiar with in the workings of the old fashioned kitchen pump handle which our forefathers had to use constantly to pump water into the kitchen from the well. That principle is all that God or you have to use in creating material bodies—the principle of The Divine Trinity of energy and energy expression which underlies all unfolding-refolding things.

I am sure that you will not say that you cannot comprehend that simple principle of the pump. Therefore you can comprehend the most complex electrical, chemical or mathematical effects, or how God unfolds and refolds suns and planets, by the same process and principle with which he unfolds and refolds the daisy in the meadow.

You have always heard that matter emerges from space in some mysterious manner, and that space again swallows up matter and absorbs it into itself. That is true, but the way that matter emerges from space is the same way that the pump handle draws water from the well.

The only difference is that there are hundreds of billions of wave pump handles pumping furiously in every cubic inch of matter to pump light out of the well of space, instead of water out of a well of earth. The motivating principle is the same, so also are the mechanics.

I will now give you a series of simple ideas to ponder over—ideas which are steps in trying to comprehend how desire of Mind manufactures thought-imaged bodies which are subsequently given material bodies.

I used the word "manufacture" purposely, instead of "creates" for the process is as much one of manufacture as any product of a factory is. By using this word, however, it will accentuate that fact to you, and I want it to do so for reasons which will be self evident as we progress.

I will number the ideas as we build up the structure of the whole process.

Regarding The Kitchen Pump

IDEA No. 1. I have diagramed a pump handle in Fig. 28. Study it carefully and note that all of it moves up and down except one point marked A. That one point is motionless—still—unchanging. That still point is on the equator which divides the polarity of its two compressed and expanded extensions which I have marked B and C.

That one still, immovable point is called the fulcrum, and the two extensions, which are the handle of the pump, are known as the lever.

IDEA No. 2. All of the energy which that moving pump handle manifests is in its immovable fulcrum. Without the fulcrum there could be no motion to express power, therefore energy could not be expressed.

The Power Of Stillness

IDEA No. 3. Ask yourself where you could logically place the source of expressed energy in the fulcrum and the lever. Could it possibly be in the moving lever if the lever could not move without a fulcrum? Your answer could only be that the energy is supplied in the fulcrum and extended to the lever to manifest the power of the fulcrum.

IDEA No. 4. In Fig. 29 I have diagramed a wave. No matter whether it is a wave of water, a sound wave, a radio wave or the wave of an electric current. You will note that it is just like the fulcrum and lever which constitute a pump handle. Its fulcrum is fixed, immovable, still and unchanging. Its lever extends to both sides of its equator (wave axis) just as the lever of the pump handle extends.

IDEA No. 5. Vision in your memory the troughs and crests of the familiar waves of the ocean. The crest of each wave interchanges with the trough, which is its oppositely sex conditioned mate. Troughs and crests are sequentially interchanging through their equators. Each alternately becomes the other but in reverse...

Fig. 30 is the pump handle showing its wave-crest and trough reversed. Positive and negative conditions interchange at their equator and each become the other by reversing their direction of motion, just as life and death, and every other pair of opposites [do.] Fig. 31 exemplifies the same principle in the wave.

IDEA No. 6. If you comprehend how the pump principle works by thrusting a piston in one direction and pulling it back in the opposite direction you can comprehend the heartbeat of this electric universe of light waves, for light waves pump in exactly the same way. The top of the pump handle is the crest of every electric wave, sound wave, radio wave, water wave or any other kind of wave.

IDEA No. 7. There is a piston on the wave of your pump handle which you can see but there is an invisible piston on every wave of every kind in Nature which you cannot see.

IDEA No. 8. In the undivided universe there are no waves, therefore there are no pistons, no polarization into pairs of opposite conditions. In such an equilibrium motion is impossible, for even the slightest motion means the development of polarity, and polarity means two unbalanced conditions which seek balance in each other through the motion of interchanging each other's condition. That search for balance through the motion of interchange is the expression of energy which is not in motion at all, but is really in the equilibrium of the undivided universe.

To illustrate my meaning see Fig. 32 and 33. Fig. 32 represents the calm surface of the ocean. All of the ocean's energy is in that stillness, waiting to be expressed, just as all of the violence of exploding dynamite is in the unexploded stick, or as the whole oak tree is in its unfolded seed.

The moment the equilibrium of the ocean is disturbed by being divided into two opposite conditions the dynamic electric universe of two-way motion replaces the static condition of rest.

Electric wave pistons then pump all the energy measured out to them by the heartbeat of the universe. Each wave is "geared" to the universal heartbeat so each wave then does its share in keeping this sexed electric universe of motion from disappearing into its own equilibrium, as it immediately would if all motion ceased.

In Fig. 33 the same ships which floated motionlessly upon the undivided calm as in Fig. 32 are tossed about like match sticks by the tremendous conflict which is now going on because of the sex passions of divided father and motherhood of gravitation and radiation which are seeking balance WITH each other THROUGH each other.

What is actually happening is that the two unbalanced sex conditions are seeking voidance of their opposed conditions by interchanging equally with each other. The divided seeks the undivided. When the two opposed conditions become undivided as one their sex passions are satisfied. Fig. 32 represents this satisfied condition of an equilibrium in which motion is impossible.

In Fig. 32 every point upon the ocean's surface is equal in respect to both gravitation and radiation. Each point is the same distance from the earth's center of gravity. That means that each point is fifteen pounds pressure per square inch.

IDEA No. 9. The difference between the two effects in Figs. 32 and 33 tell you what electricity is. ELECTRICITY IS MOTION. Without motion there is no electric expression—no waves—no pistons—no pump. The measure of electric force expressed is the measure of the strains and tensions set up by dividing one condition into two, and an equal strain or tension in the desire of the two to become one.

Electricity expresses itself in the North-South dynamic directions only. See Fig. 16 on Page 175. The amplitude of every wave of every nature points directly toward, and away from, the center of gravity.

Falling rain for example falls directly toward the earth's center and rising water vapor returns upon the same radial lines. That is an expression of electrical energy, for the falling rain is charging the planet and discharging space, while the rising vapor is charging space and discharging the earth.

When water vapor rises to a level of equal pressure it then floats upon its static diameter which parallels the earth's surface. Electric expression then ceases, for there are no waves, or wave pistons, on the static levels which are equal in distance from the earth's center.

IDEA No. 10. In order to better comprehend what I mean by the strains and stresses of electric pressures which cause sex passion in Nature, imagine elastic bands stretching from the center of gravity to every point of an ocean wave. In a wave these elastics would be unequal in length, therefore there would be a greater strain on some than others.

Upon the calm ocean there is no such inequality, therefore, there would be no unbalance. All stresses and strains would cease as though they never were.

In your own business and social life you may express yourself as dynamically as you choose so long as you balance each opposite with the other, but the moment you unbalance them unequally you will have to pay the price of breaking God's inviolate law.

Business or matrimonial sex unbalance suffer alike. Giving and regiving must be equal and opposite else businesses crash, homes break up, friendships cease and many and varied ills affect the body which could not have happened if giving and regiving were equal and balanced.

If your social, business or sex life is not balanced you can never find rest, or peace, or happiness. That would be impossible, for any residue of unbalance, left over from your greatest efforts to balance them would prevent your finding happiness, peace or rest.

To express your life dynamically you must be strong in your knowing of God's law, otherwise it will react against you mightily. That is as true of the chemical elements—or even of musical tones as it is of humans, for it is God's law and has no exceptions.

If you do not balance your takings by your givings that residue of unbalance will make happiness impossible, where, instead, you may have the greatest of happiness by balancing them.

In Fig. 34 we have an example of perfect balance which results from a perfectly balanced transaction in Nature. It is a cube crystal of sodium-chloride which is the result of a balanced union of sodium and chlorine as exemplified in Fig 35. Sodium is the positive, and chlorine is the negative. They are perfectly balanced sex mates and their union voids both as dynamic opposites.

The cube crystal exemplifies your happiness resulting from a balanced transaction. In it there is no residue of unbalance as there is no residue of unbalance in your business and personal transactions when there is an equal interchange. Therefore peace, happiness, and health are only possible when one is spiritually and physically in balance.

Sodium and iodine, or sodium and bromine would make good mates but in each would be a residue of unbalance which would show in their crystallization by distorted cubes of sodium iodide or sodium bromide.

In Fig. 35 you will note that the static and dynamic diameters are ninety degrees from each other. In sodium-iodide they would be less than ninety and in sodium-bromide they would be less still. In a like residue of unbalance lies all of your troubles of business, health or social relations. With such a residue you are out of tune with yourself and all things else.

While speaking about being out of tune with your environment or associates I will use a musical tone to exemplify more specifically what I mean by the words "residue of unbalance".

Fig. 36 represents the A string of a harp. That string is only one of a whole octave group. If you pluck it—as in Fig. 37, it will vibrate between its positive and negative divisions, as sodium and chlorine do in Fig. 35. The string is now expressing itself dynamically for sound extends from its silence.

Suppose, however, that its vibrations do not balance with the vibrations of the other strings of its octave. It is then out of tune with them. It can never be satisfied with its own accomplishments while that residue of unbalance remains.

Conclusion

The reason I dwell upon these simple examples is because all Nature repeats in its every phase the experiences of your own life. The more you KNOW Nature, its laws and processes, the more you can work knowingly with God.

Life is hard only for the ignorant. The greater your knowledge of God's ways, the easier and more glorious your life can be. Many people are out of tune in their business, social and domestic life simply from ignorance of the essential knowledge for finding happiness. If you hear a piano which is badly out of tune your senses are jarred, but many lives are very badly out of tune without doing anything about it.

No one can live life gloriously without a workable philosophy. A philosophy which has a scientific basis will fortify you in the certainty of its practical workability.

A religion which is in tune with a scientific philosophy will be like unto the North Star to a mariner. A religion which has but an emotional basis is a quicksand, but when you add knowledge to the highest of spiritual emotions, you are surely upon a solid rock with your eyes to the Light instead of to the dark.

There should be no guess work about life. Guessing is the method of ignorance. No one need be ignorant. Everyone can have all knowledge—for all knowledge exists—and is simple—and is yours for the desiring.

Information, techniques and skills are complex, but they are not knowledge. These alone will not lead you to the Light.

Until you do know the path to the Light and walk it knowingly, [you] will travel many paths in the dark, and your flesh will be torn with thorns, and you will be low in spirit and shrouded with self-pity in the measure of your not knowing.

I say to you, therefore, the more you make God's ways your ways, the more you will manifest God's power to live gloriously, prosperously, powerfully and with great happiness, for the path to the Light is clear, and illumines all of your way if you but know the path.

The following words from God's Message will give spiritual force to my meaning.

"For I say that man who senses but clay of earth in him is bound to earth and clayed image of earth.

"Clayed images of My imagining who knoweth not Me in them are but dwellers of earth's dark. To sensed man the doors of My Kingdom are self-barred by darkness until the Light of Me in him is known by him as Me.

"Until then he is but moving clay, manifesting not Me in him while sensing naught but moving clay of him, knowing not the glory of My light in him.

"Wherefore, I say to thee, exalt thou thyself beyond thy sensing. Know Me as fulcrum of thy thinking. Be Me as deep well of thy knowing."

—From *The Divine Iliad* *6

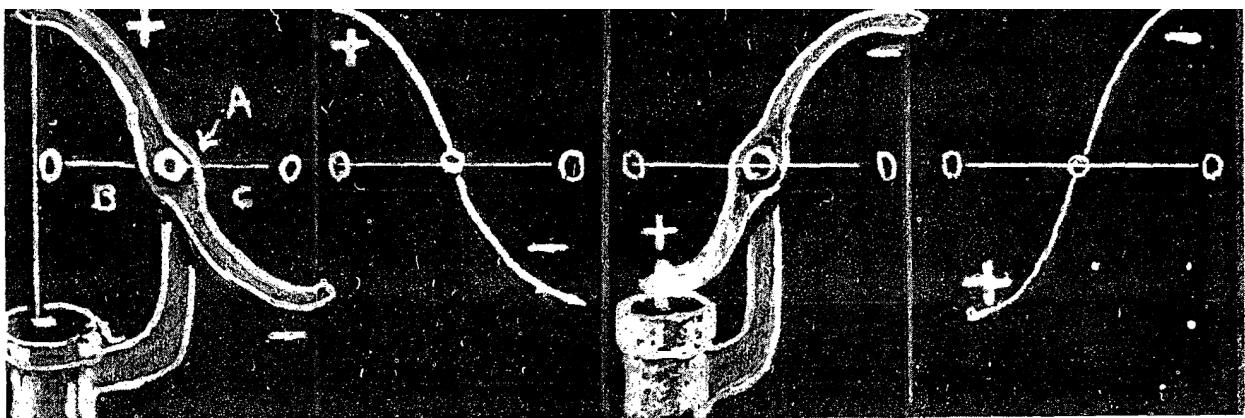


Fig. 28.

Fig. 29.

Fig. 30.

Fig. 31.

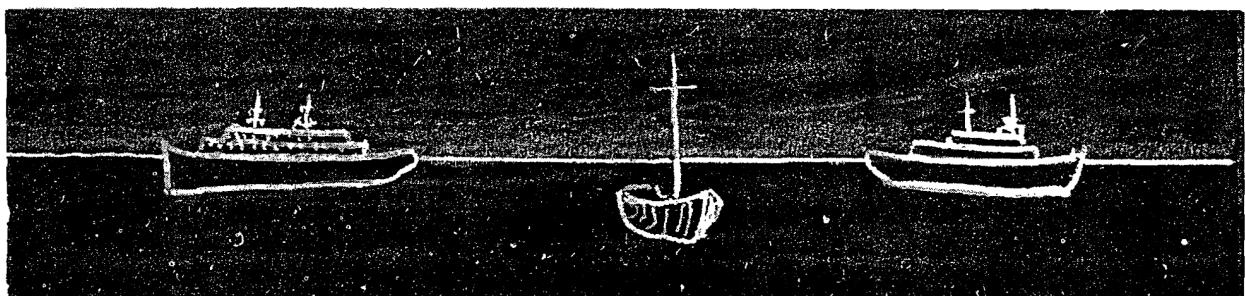


Fig. 32.

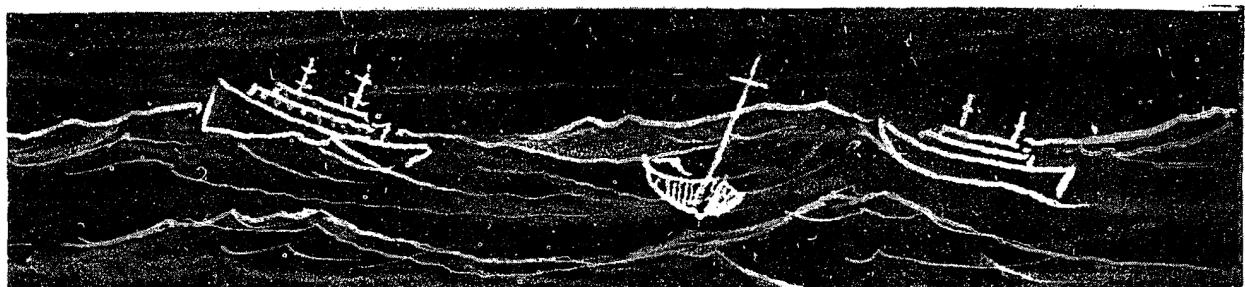


Fig. 33.

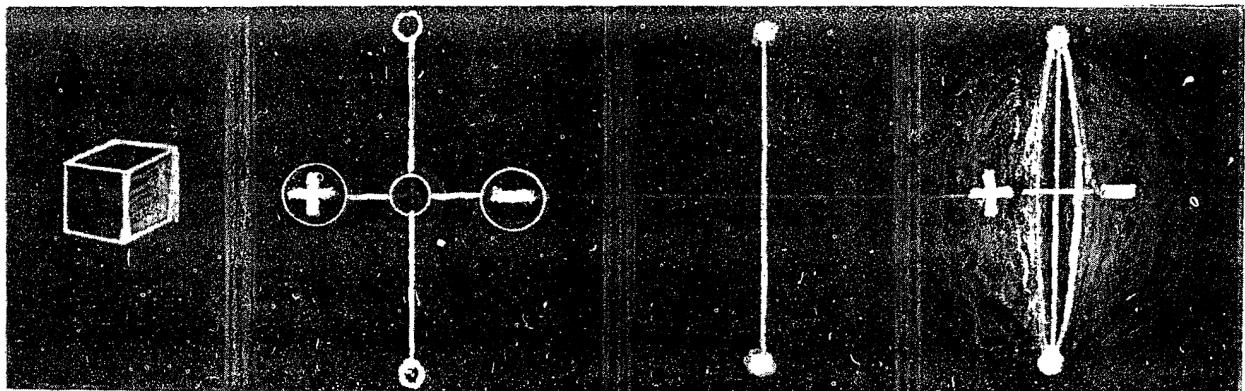


Fig. 34.

Fig. 35

Fig. 36

Fig. 37

DRAWINGS EXEMPLIFYING THE PRINCIPLE OF THE DIVINE TRINITY

ABOVE: PRINCIPLES OF GOD'S SOURCE OF ENERGY IN ACTION, FROM STILLNESS MANIFEST INTO DIFFERENT FORMS OF WAVE MOTION. *6

God Less



ABOVE: CHRIS PONTIUS AS THE DEVIL FROM THE 'JACKASS' FILM SERIES — 'FALLEN BOYS INDULGING SELF-DESTRUCTIVE BEHAVIOR'. *7

Demons Really are Possessing People, Warns Psychiatrist...

An Ivy League-educated psychiatrist is convinced that there's a growing epidemic of demonic possession in the world today, and that most everyday people now recognize the dark reality of this scary situation.

Dr. Richard Gallagher, who boasts degrees from both Princeton University and Yale University, says that, despite conflicting opinions within mainstream medical science, demonic possession is both real and rampant.

With 25 years of experience under his belt as a private psychiatrist that complements his two teaching positions at both New York Medical College and Columbia University, Dr. Gallagher believes he holds a unique vantage point in discerning between human and non-human, or satanic, behavior...

He insinuated to The Telegraph (United Kingdom) during a recent interview that demons know full well how to trick human beings because they possess far more advanced cognitive faculties. They routinely use these mental "smarts" to control the humans they possess, causing many of them to commit atrocities and other evils against other people and lifeforms.

"They're very, very smart," Dr. Gallagher is quoted as saying about the beings that occupy the demonic realm. "The intelligence level of a fallen angel, which is what I call them, is far superior to human beings."

Roman Catholic Church seeing huge uptick in cases of demonic possession

Dr. Gallagher's sentiments align with other recent reports about rising demand for exorcisms in the Roman Catholic Church. The Vatican actually held a training course earlier this year to teach exorcist priests how to handle this influx of demon-possessed humans.

Pope Francis has also commented on the phenomenon, explaining to his followers that Satan is, indeed, "a real being" who's "roaming the earth to devour souls like a lion." ... Francis also says that priests "should not hesitate" to send people who are suffering from "genuine spiritual disturbances" to exorcists. The Rite of Exorcism, he says, is a "delicate and necessary ministry" that should be undertaken with "great care and great prudence."

According to data from the United States, the number of priests trained in performing exorcisms has increased from a mere 12 about a decade ago to 50—a more than 300 percent increase. This dramatic jump shouldn't be ignored, says Dr. Gallagher, who while he's not alone in his opinions is among a small few who are willing to talk about it professionally.

"There are many other psychiatrists and mental health care professionals who do what I do—perhaps not to the scope that I do—who seem hesitant to speak out," Dr. Gallagher says. "That's what gives my work some singularity. That I have had so much experience and that I am willing to speak out. I feel an obligation to speak out. I think that I should."

At the same time, Dr. Gallagher warns that it's important to determine without any doubt that a person actually has a real demon before recommending that he or she visit an exorcist.

"There is very strict criteria for determining the person's problem," he warns. "I am not just intuiting. I'm dealing with it from a very scientific point of view." *⁸

How Women Manipulate Men and the Female Ego

When we look at the average relationship and marriage of men and women, it becomes apparent that some may look harmonious on the outside but many and most of them are really not a success and what one would call a celebration of joy and support. Most relationships experience constant struggle and are experienced more as a burden than an interdependent sharing of intimacy. The main reason of course is the individual partners level of consciousness, where his or her own negativity and judgments decrease the connection, acquaintance and love with the partner. Connected with this however is the negative aspect of the male-female polarity itself. What draws a woman to a man is sought after by a woman, but causes suffering to a man and vice versa. Usually the *intention* (which is often a *need*) why someone is in a particular relationship defines the relationship and is simultaneously the trap.

This article aims to illuminate this polarity in light of the female ego, to make men more aware of manipulation processes, so that they are able to increase their integrity by being taken less advantage of. It shall be a contribution to help understand women's behavior which is often puzzling to men and lay it out in a more linear way. But it might also serve women to identify negative patterns in order to be able to progressively let go of them. Furthermore examples will be given for many tactics. In men the reason for manipulating is a bit different, and women are taken as the example because they are very good at it and much better at hiding their ego and the intention behind resulting behaviors.

Women are aloof

What a woman says and does are two different things

When a woman is attracted to a man, this usually does not necessarily mean she will sleep and be in a relationship with him. She will need comfort and when she also has this, she still will usually want one more thing: a man's *attachment* to her.

To ensure this attachment the following mechanism takes place :

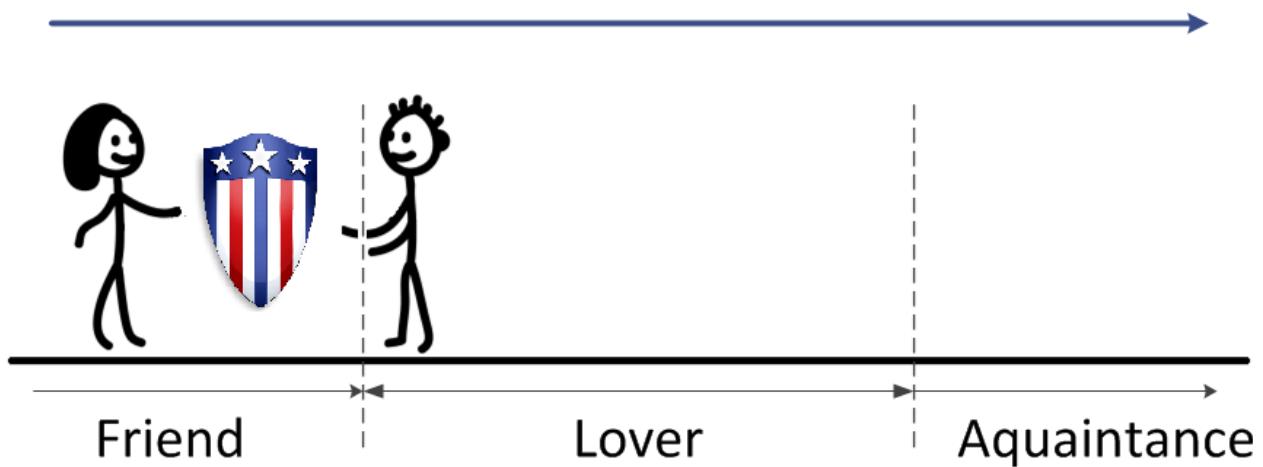
At the beginning of a get-together things might seem smooth and you get to know each other and might enjoy yourself. However at a certain point, which might also happen very fast, she either completely loses interest in you or pushes you away emotionally. In case she loses interest though she is attracted, she already recognized that you did not escalate fast enough, which shows her your attachment is not strong enough for her to be interested anymore. In the other case pushing you away serves her to hold you in an emotional limbo, at a certain distance. If you, as a man feel confused, uncomfortable or victimized (even to the point of psychic terror), though having good intentions, this process might be just unfolding. Also as a form of one of the multitudinous manipulation techniques. This is called **aloofness**.

Figure 1 and 2 illustrate this process.

Figure 1—Push

When the man comes too close emotionally a pushing away will happen. This is indicated by a shield from Captain America :). As soon as it might feel like you are becoming a friend she has to create a distance. A few practical examples on how this happens are:

Emotional Distance



You might be enjoying a good and *friendly* conversation and she stops responding (showing disinterest or becoming quiet) She puts you down in various ways. E.g. (in)directly stating that she has no affiliation with you. Disqualifying, arbitrary criticism and manipulation. She will say something like “You are not giving me enough space”, “I need space”, “I am afraid of getting hurt.”

Emotional Distance

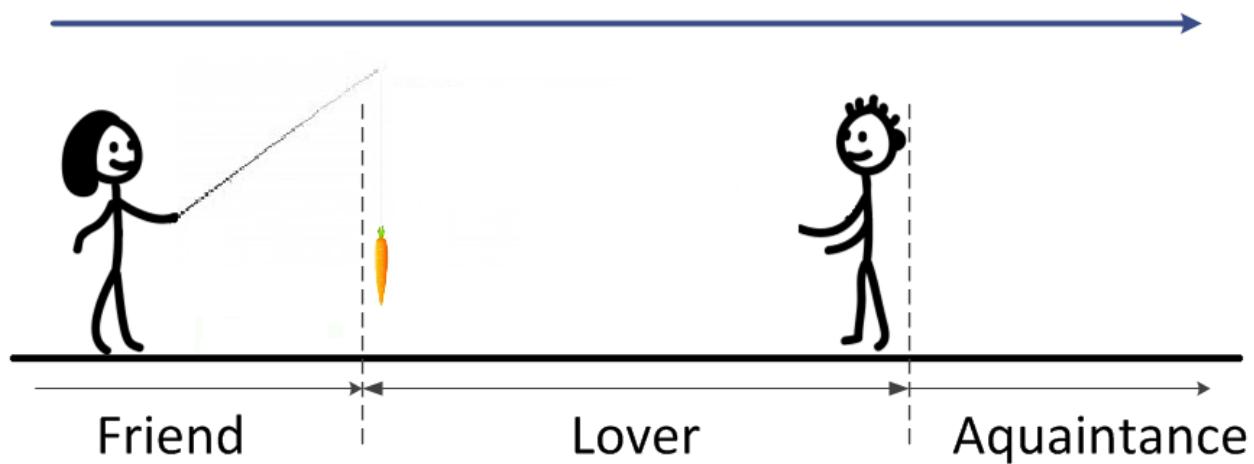


Figure 2—Pull

When you are about to loose interest yourself, usually because you do not want to put up with the BS and games anymore, the opposite will happen and she will try to reel you in again, often for fear of loosing you. However this will happen only to the degree that you can still be manipulated. In a sense she is like a puppeteer and gains **control and power** through that process.

Hiding the intention and recontextualizing play a huge role here. The man is supposed to think that something was his fault. To bring him back she might also offer sex or pretends to be friendly and courteous for a while.

"You have to fight for me". By saying this she puts the weight on the man's shoulder, so that he now keeps leaning in by himself again and catches the carrot.

Why does it work and what does it explain?

What a woman says and does and what it means are again two different things

If a man can not be manipulated, this means the woman can neither push him away nor reel him in, she will likely not be interested in the relationship anymore or to begin with.

This process really works because of two things:

1. The man's ignorance about the matter. And women's ability to hide the process.
2. His attachment and thus allowance of mistreatment because of his desire (i.e. lust).

Women are much more intuitive than men. They know perfectly well what is happening, which allows them to control this process. It is fascinating and explains many things:

1. ***Why women have no friends, and why it is said that women hate each other.***
2. ***Why no woman likes his man.***
3. ***Why a woman has to be conquered and courted.***
4. ***Why a man usually feels compromised, uncomfortable and bossed in the presence of women.***
5. ***Why women like bad boys.***
6. ***Why a man can and has to steal a woman from her boyfriend or husband.***
7. ***Why there are problems in relationships and why relationships aren't fun.***
8. ***Why a man has to initiate contact and is burdened with responsibility of the overall situation.***
9. ***Why a man cannot talk with women about certain things and why he will not get an answer to certain questions.***
10. ***Why a man can read endless self-help books about relationships and go to couple therapy and will still experience struggle.***
11. ***Why a woman rejects a man and simultaneously and secretly hopes that he keeps pursuing her if he is attractive.***

How women control man

Let's look deeper into the various tools women use to control and hide this process. It can be recognized that basically all tools are used to pull down one's frequency and mislead by leveraging weaknesses, to invoke some kind of negative emotion like pride, jealousy, guilt, shame and so on. She intends to cause a **reaction** and **suffering** to her behavior. Because only then one becomes vulnerable and easy to control. When someone is happy, he cannot be controlled. Women know a man's weaknesses right away after looking at him. They are men experts. They get it through presence. Figure 3 gives an overview.

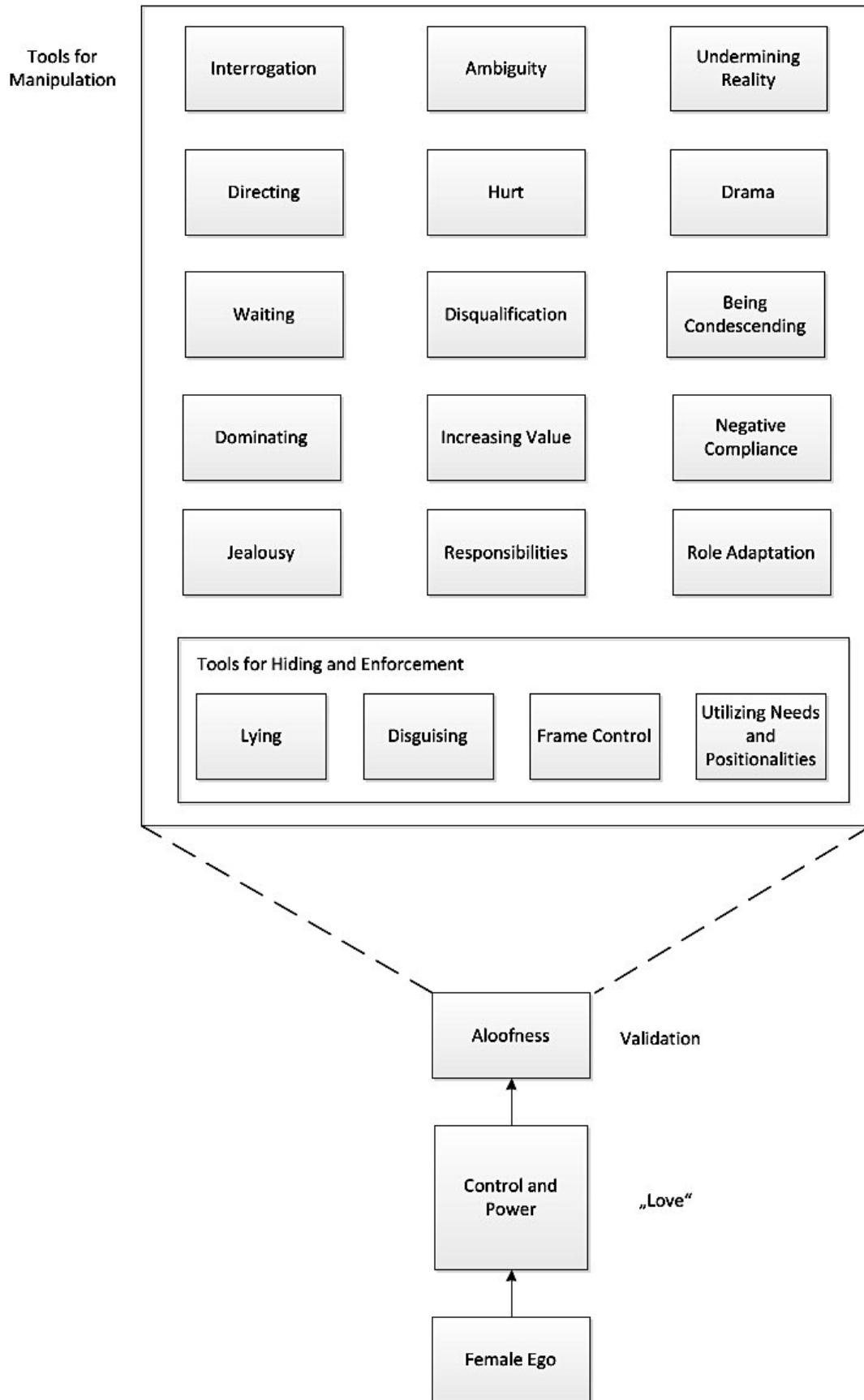


Figure 3—Female Ego and Manipulation Techniques

Interrogation—She asks questions to gain critical information that she can use to hold against the man. “Do you love me?”, “Are you my friend?”, “How important is sex for you in a relationship?”, “Why do you want to be with me?” Or to better determine your social status. Trying to find out if you are congruent. “Where do you work?”

Ambiguity—It will not be clear if she wants to be with you or not. Indirectness in communication. Saying one thing and doing another. Communicating one thing and then changing it.

Undermining Reality—She puts the weight on your shoulder. Either directly or indirectly pointing out that a happening was your fault, your responsibility or shortcoming. Blame. Disagreeing. Manipulation through guilt. “You are thinking too much about it. It is not that way.” “I think you are just silly.” “Don’t be silly.” “Soccer seems to be more important to you than I am” (blame and guilt) “You are such an egoist. A relationship cannot work with someone like you.” (pretending to be guilty and insulted). She laughs about her manipulative behavior as if it was a joke (recontextualization, also hiding).

Directing—This entails occupying your consciousness with irrelevancies and giving you commands. She may command you to do some gardening work with a very negative and commanding tone. “Give me a drink”, “Take the bag into the basement”. She dictates and instructs in various ways. She determines common activities and meetings. She implies being in need of help, and asks you to do things she could do on her own. She asks you a few irrelevant questions several times in a row. Like “How do you like my dress?” And even if you answer it, she asks again, sometimes right after the answer. She talks a lot and makes you do things.

Hurt—Anything that makes you suffer and what you are sensitive about. E.g. if you are fat or bold, women will repeatedly bring that into your awareness in fierce ways. Sometimes it may not appear fierce, but inwardly you will feel like a bomb just dropped over Hiroshima. A subtle way may be touching your bold spots, or repeatedly looking at them. The intention here is to harm deliberately. Every weakness and sensitivity you have about any issue will be brought up and used to stab. One example: “How much money do we still have?”

Drama—

1. **Poor me drama.** Draining energy by complaining and implying that one is responsible for their troubles. The purpose here is to make you feel guilty. Often it works even though you know that it is not your fault on a deeper level. They talk about their illnesses, mistreatments or sufferings.
2. **Pure negativity drama.** Aggressiveness, being loud, insulting. The intention here is to get some kind of control back, to dominate and to reel you in.
3. **Negativity dumping place drama.** They just go on talking, transmitting pride, anger, sadness and judgmentalism.

Waiting—They let you wait. Or they tell you or ask you for a specific time to meet or have dinner ready and then do not comply to this time.

Disqualification—She implies that she has more value than you directly or indirectly by putting you down. “You never change.”

Being Condescending—Insults. Showing Disrespect. Talking bad about you and putting you down. Complaining. “You never put down the toilet seat.” “I don’t want that. Stop it.” “You are never of any help.”

Dominating—In this category also belongs their attitude of “only what I want shall be done.”

Increasing Value—Increasing their own worth and market value by creating competition with other men. Even if there are no man in their lives right now, they make one up. They tell you various stories. They are also increasing their value by being aloof and pushing you away.

Negative Compliance Tests—They try to let you do things you would normally not do, but would do especially for women to gain their sympathy. Ironically (and that's the point) the result will be the opposite of what you intended. “Can you hold my bag real quick, while I go to the toilet.” “I need socks to play the game. Do you have any?” (looking at yours, that are on your feet). “Do you want to drink something?” (handing you her cup with just a sip left). She starts holding your hands and takes notice if you let go or not.

Jealousy—She goes out dancing, and talks a lot about how other man are interested in her (implying it indirectly). She hides details of things and she is vague, especially when you are pushing for an answer. She is flirtatious with other men in your presence.

Responsibilities—They own your responsibilities and make them their own. This is a subtle enslavement. My secretary for example has to do some paperwork and some organizing for me. So occasionally she comes and I have to fill in some additional information on those paper sheets. And right in our conversation she manages it to turn it around and give me instructions what to do and when it should be finished. So of course I have to provide some information but she changes the energy and context as if she is the boss.

Role Adaptation—They take on a certain role. Being your parent for example. By expressively playing this role they are able to enforce the effects of the role.

Agreeing—After an argument you will see that they start agreeing on various things to end the argument. They are in control of starting and ending it.

Hoops—They throw a psychological hoop and see if you're jumping into it. Often it is to deprive you of your power. She gets some feeling of superiority from knowing how you will respond.

Rejection—This is also often just a way to get a hold on you. Ironically women reject even men they are interest in.

The information gap—This word was termed by psychologist George Loewenstein. It states that there is a painful gap within our minds that we desire to close in order to relieve us from this pain. This gap is supposed to steer curiosity. This gap is created by questions and puzzles, unknown decisions, false expectations, access of information from others, remembering things you forgot. Women seem to know this even before it was discovered!

Panic Reactions—Once in a while they go for what can be called a panic reaction, when your brain gets short-circuited and you usually just blow. If the man gets physical, she turns it against the man and emphasizes how she really did nothing. And this works pretty well because her intention to short-circuit is well hidden. One example: It happens that she has bad breath and talks to you. You allude that she has bad breath and that she should please keep a distance while talking to you. You do that twice. She backs off walks around in the room a little bit then comes back close in order to relocate some things and then again to blow her breath into your nose.

Trolling Expectations/Perceptions—This is also a very subtle one and it can be said to happen on the level of thought. Three examples: She walks towards one side of a double door (holding the thought in mind to enter there) and you step aside in expectation she will now cross that path, but instead she now changes to enter through the second door. Secondly, the man expects her to behave mean in a certain situation but she is suddenly nice. Or you might know that she is attracted to you and expect her to touch her hair, but as you notice and pay attention to it she suppresses the movement and waits until you look away (may also be hiding in other situations).

Aloofness and Push—Pull—This was introduced at the beginning and though aloofness is something fundamental and innate to the female psyche it may be contextualized as a manipulation as well. Many techniques are supplemented by push—pull. They are preceded by a pull and finished with a push.

False Cause—Usually a woman blames and criticizes you exactly for what she is the cause. For example she complains that you are never doing anything with her. But when you make some propositions for activities she denies your suggestions without further ado. She is not interested in a constructive resolution of the conflict.

A Special Case—When you are arguing with some fact based reasoning in good will, what will often happen is that she implies in her argumentation that your fact is a generality and she gives an individual case for the purpose of disproving you as wrong (the individual case is also often a lie which is based on missing information that you do not have). Example: In a gender debate a man argues that men are often insecure in talking and approaching women because they are often not sure what is ok to do and what not. And that a man is supposed to do the first step because women never do it. The woman responded laughingly questioning what women he means and that she often makes the first step and speaks to men.

Caught Unprepared—One pattern is also that women strike when the man least expects it or is most vulnerable. Examples are when you come back home from work and are exhausted, are tired and start going to bed or leave a conversation with her.

Hiding and Enforcement

Lying—They lie from trivia to major things. Also to hide manipulation and aloofness. Often they tell you the opposite of what's actually the case, "Men are pigs," "You have to try to understand me," "Men want what they can't have." When she bails out on appointments she talks about reasons of higher magnitude like it was raining or her mother did not let her. She does not respond.

Disguising—Disguising the process of aloofness and manipulative behavior. Recontextualization. Basically all manipulation has to be disguised, otherwise it loses its function and purpose. "I am just trying to help you."

Frame Control—This is a major one. Women almost have a super power here at their disposal. They are able to express their emotions and themselves unimpeded. They are at ease with it and do not fall into doubtful self-reflection. This is also why they enjoy dancing so much in contrast to many men. By being expressive and having a strong frame, it allows them to steer opinions and behavior. Women can even make an entire room consent to a certain preconceived belief just by holding a thought in mind.

Utilizing Needs and Positionalities—They know when a man likes something and use this knowledge to satisfy their own needs. Basically this is the foundation a woman works on: "her man is her kitchen."

How do men cope with this knowledge?

All that is necessary to fully understand women and solve many relationship issues is to understand that women oppose and resist every ego weakness about a man and that they mistake power for love.

Should men condemn this behavior? No, instead it is better to have compassion and forgive, especially ourselves in order to heal these aspects within our own psyche. It stems from women's deep need for security and issues of abandonment. It has to be understood that women had much less power than man in the past and that it is mostly the source of all their power.

How do you protect yourself from this manipulation and respond?

A usual way to deal with these issues would be to point out that you do not tolerate this behavior and align with this attitude (cal. 300's). However, women will not comply to this request, will use the various tools mentioned above and keep on going.

Women are so good at these tests, that they know that you will suffer from it and that you **cannot really protect** yourself from it. Because whatever you say your inner state will be known and to be kind in anger is pretense. Of course you can build a 'thick skin' and pretend, but

The only way to really master these tests is to **become loving**. If you have transcended the emotional field that is being exploited you will likely not get these kind of attacks and even if you do, you usually just have to laugh. Because you instantly get what is happening and you are not subject to it. This is a good response, because it denotes more humility and compassion.

We will end this article with a few calibrations:

The average level of consciousness of men and women is the same—true

There are no spiritual differences between men and women—true

A woman perfects her intuitive side before the man does—true

Some of the manipulation techniques were completed from the german book "Lob des Sexismus" from Lodovico Satana, which lays out manipulation techniques in much more detail (only available in german). *9



ABOVE: 'EMASCULATED' GARFIELD COMIC STRIP "PROVING" IT DOESN'T PAY FOR MEN TO TELL THE TRUTH WITH THE OPPOSITE SEX. *10

Legislators Desire to Mold Mankind

Now let us examine Raynal on this subject of mankind being molded by the legislator:

The legislator must first consider the climate, the air, and the soil. The resources at his disposal determine his duties. He must first consider *his* locality. A population living on maritime shores must have laws designed for navigation.... If it is an inland settlement, the legislator must make his plans according to the nature and fertility of the soil....

It is especially in the distribution of property that the genius of the legislator will be found. As a general rule, when a new colony is established in any country, sufficient land should be given to each man to support his family....

On an uncultivated island that you are populating with children, you need do nothing but let the seeds of truth germinate along with the development of reason.... But when you resettle a nation with a past into a new country, the skill of the legislator rests in the policy of *permitting the people* to retain no injurious opinions and customs which can possibly be cured and corrected. If you desire to prevent these opinions and customs from becoming permanent, you will secure the second generation by a general system of public education for the children. A prince or a legislator should never establish a colony without first arranging to send wise men along to instruct the youth....

In a new colony, ample opportunity is open to the careful legislator who desires to *purify the customs and manners of the people*. If he has virtue and genius, the land and the people *at his disposal* will inspire his soul with a plan for society. A writer can only vaguely trace the plan in advance because it is necessarily subject to the instability of all hypotheses; the problem has many forms, complications, and circumstances that are difficult to foresee and settle in detail.

Legislators Told How to Manage Men

Raynal's instructions to the legislators on how to manage people may be compared to a professor of agriculture lecturing his students: "The climate is the first rule for the farmer. *His* resources determine his procedure. He must first consider his locality. If his soil is clay, he must do so and so. If his soil is sand, he must act in another manner. Every facility is open to the farmer who wishes to clear and improve his soil. If he is skillful enough, the manure *at his disposal* will suggest to him a plan of operation. A professor can only vaguely trace this plan in advance because it is necessarily subject to the instability of all hypotheses; the problem has many forms, complications, and circumstances that are difficult to foresee and settle in detail."

Oh, sublime writers! Please remember sometimes that this clay, this sand, and this manure which you so arbitrarily dispose of, are men! They are your equals! They are intelligent and free human beings like yourselves! As you have, they too have received from God the faculty to observe, to plan ahead, to think, and to judge for themselves! ^{*11}

"From honesty in thinking come truthfulness, simplicity, sincerity, justice, rectitude. There comes a condition of the mental atmosphere in which virtues flourish and virtuous thoughts are conceived or entertained. These thoughts are then projected in speech and acts which show simplicity, sincerity and righteousness. When a man thinks such thoughts and intends such acts, he will not only so conduct himself, but there will come with such virtuous conduct, the qualities of fearlessness, calmness and strength. He will not even contemplate any act concerning which he could not speak truthfully and act with sincerity." —*Harold W. Percival*

"Be not overcome of evil, but overcome evil with good." —*Romans 12:21*

Without ‘Oneness,’ Dalai Lama Warns of ‘Miserable Century’

Referring to the terrorist attack in Orlando, the Dalai Lama attributed violent extremism to the lack of a “sense of oneness” among those with “hate” in their hearts.

He warned of a “miserable century” if there isn’t global action, particularly from youth, to achieve “oneness through education.”

“Thousands of people killed and in some cases in the name of religion and many innocent people dying—terrible, unthinkable. So then when we saw this situation, each individual cannot remain indifferent, so we have to think,” he told the audience at the United States Institutes of Peace in Washington during a discussion titled “To End Violence, Engage Youth.”

The Dalai Lama said “when we think seriously of this sad event” people ponder the specific cause.

“So now the fundamentals of the cause, here—hate,” he said, pointing to his heart. “Self-centered attitude: we and they—a lack of a sense of oneness of human brothers and sisters.”

“So we really need a sense of oneness of every human being,” he said.

He added that on each continent, “their future depends on the other.”

“That’s the reality, not like ancient times. In ancient times, more or less, self-sufficient and independence. Now, interdependent including more global economy—that’s also an environmental issue,” he said. “So now global warming also create more and more natural disaster, so now the time comes. Every human being has to act.”

Otherwise, the Dalai Lama said, the 21st century would be a “miserable century.”

“Basic human nature is more compassionate,” he said, adding that “we have to hope” for a “universal love” on the basis of “oneness through education.”

If the “younger generation” makes an effort toward “oneness” right now, the Dalai Lama said, the future would be brighter.

“I think the end of this century could be more peaceful or more compassionate,” he said.

The Dalai Lama also rejected the notion that “compassion is something good for others, but not necessarily [for] oneself.”

“It’s totally wrong. The result of the practice of compassion, the first benefit, goes to oneself,” he said. ^{*12}

“The United States is the world’s best hope, but if you fetter her in the interests and quarrels of other nations, if you tangle her in the intrigues of Europe, you will destroy her powerful good, and endanger her very existence. Leave her to march freely through the centuries to come, as in the years that have gone. Strong, generous, and confident, she has nobly served mankind. Beware how you trifle with your marvelous inheritance; this great land of ordered liberty. For if we stumble and fall, freedom and civilization everywhere will go down in ruin.” —*Henry Cabot Lodge*

Cause & Effect

Let it then be clearly understood that the universe of Mind is that which man characterizes as "the spiritual universe" and that the universe of dimension is man's "physical universe."

One is cause. The other is effect.

One is real. The other is illusion.

Man has to do with illusion during those periods in which he is forming the idea of himself as illusion; so, therefore, it is necessary that he shall understand the dimensions of the universe of illusion in order that he may control them.

Man has long ago discarded the corpuscular theory of light in favor of a theory of electromagnetic effect of undulating waves which are supposed to exist in the ether.

He must now replace this second theory, for the ether of man's concept is non-existent. There are no undulating ether waves.

Light is corpuscular.

Modern science has proved mathematically that light could not be corpuscular because of certain phenomena known as "interference" and "aberration."

Modern science has reasoned that, because of the phenomenon of interference, light could not be corpuscular, for if light consisted of little particles, the phenomenon of interference would prevent light from travelling.

It is presumed by man that light travels, because the evidence of his senses so convinces him.

Light does not travel and the appearance of its doing so is another of the many illusions of dimension which deceive man.

All light units of matter are given the appearance of form by the magnetic reaction of the attempt of electricity to seek higher pressures.

This attempt is resisted by magnetism, and the resistance is registered in electricity as heat.

The rebound into lower pressures and the sudden cooling of the electric whirling particle by the expansion of the lower pressure causes it to solidify.

It is turned into ice. It freezes.

It becomes what is known as "crystallic."

All matter is crystallic. Crystallization is a dimension. It is the first appearance of form.^{*13}

Huge Crowds Prays for USA & Donald Trump *¹⁴



ISRAEL - (Huge Crowds Prays For USA & Donald Trump) - NOV. 8 , 2016



danbanrock1

Published on Nov 8, 2016

Today in Israel masses of crowds prayed
for the United States and Donald Trump to purify the nation.
Video from gathering at Jurusalem Global Gathering
as they prayed and worshiped in spirit ,
the highest form of prayer for not just the United States
but the whole world.
Watch this video and pray with it and pass it around
in the name of Jesus Christ.

God Bless ,
Dan

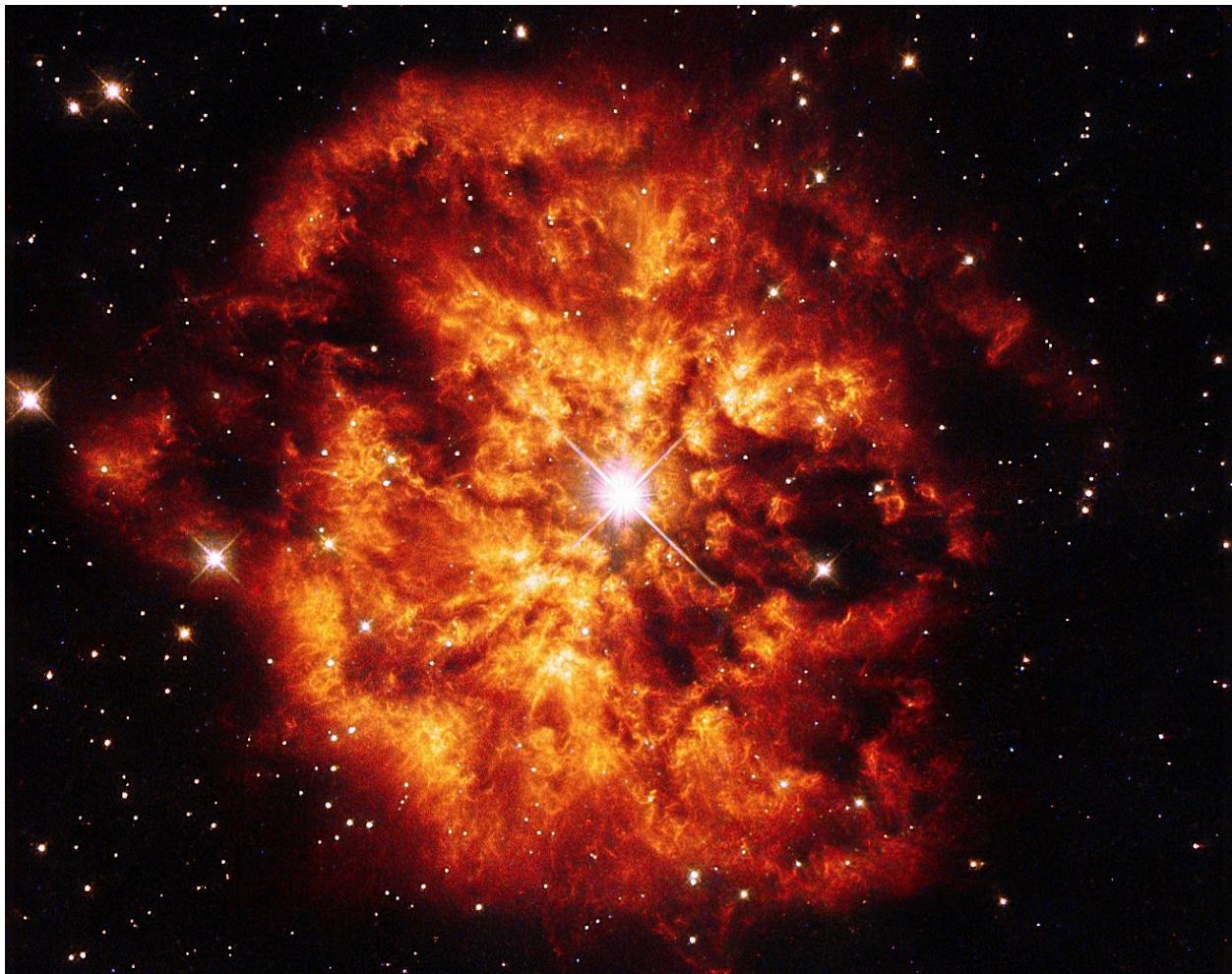
Astronomical Applications

Here we have two very different views as to the origin and ultimate destiny of the globular clusters, one derived from astronomical observations interpreted in the light of current cosmological theory; the other derived from a theoretical system developed in an entirely different physical field, but presumably applicable to the entire universe. For convenient reference we will designate these as the CA (current astronomical) and RS (Reciprocal System) theories respectively. Now let us look at the evidence, specifically those facts on which the two viewpoints differ, and which are therefore relevant for the purpose of supporting a decision as to which viewpoint is more in harmony with existing knowledge.

1. In spite of the observational difficulties involved, a substantial number of globular clusters have been located in inter-galactic space in recent years. The existence of so many clusters not associated with galaxies is very awkward for a theory such as CA which regards these objects as having originated jointly with the galaxies, and the observed situation is therefore highly favorable to the RS theory, with which it is entirely in agreement.
2. The cluster system surrounding our galaxy does not participate in the galactic rotation. This is difficult to reconcile with the CA theory. If the clusters were formed as a part of the galactic aggregate, then they should act as part of the galaxy and should participate, at least to some degree, in its motion. On the other hand, the RS theory says that the clusters are not part of the galaxy but are external objects that are being drawn in by gravitation. On this basis the reason why they do not participate in the galactic rotation is obvious.
3. The observed motions of the clusters are, in themselves, practically conclusive evidence of the validity of the RS theory. As Struve expresses it, the clusters move "much as freely falling bodies attracted by the galactic center." The RS theory says that this is exactly what they are, and that the observed motions are therefore just what we should expect. The CA theory views the observed paths as portions of extremely elongated orbits, but has no explanation as to why the cluster motion should have this highly abnormal characteristic.
4. Clusters closer to the galactic center are somewhat smaller than those farther out. Studies indicate a difference of 30 percent between 10,000 parsecs and 25,000 parsecs. This is not necessarily inconsistent with the CA theory, but it is something for which that theory has no explanation, whereas it is definitely required by the RS theory, as the clusters are subject to more loss of stars by differential gravitational forces as they move in closer where those forces are stronger. On the basis of the CA theory the present distance of a cluster from the galactic center has no special significance, since the observed position is merely a point on an orbit, and hence there should be no correlation of distance with size or any other cluster characteristic.
5. Some clusters (M67, for example) resemble galactic clusters in size, shape and location, but resemble globular clusters in the types of stars which they contain, and therefore have H-R diagrams similar to those of the globular clusters. The existence of hybrid clusters of this kind is very difficult to account for in terms of the totally different cluster origins pictured by the CA theory. The RS theory gives a simple and straightforward explanation. It identifies M67 and others with the same general characteristics as former globular clusters, or parts thereof, which have only recently reached the galactic disk. The modification of the cluster structure under the influence of the strong rotational forces of the galaxy is already under way, but the evolution of the individual stars has not yet gone much beyond the globular cluster stage. The status of M67 as a recent arrival in the disk is corroborated by the fact that, if it is classified as a galactic cluster, it is one of the most populous of these units and one of the highest above the galactic plane.
6. The observed motions of the stars in the galactic clusters show that these groups are not stable and are breaking up at a relatively rapid rate. The large number of such clusters now in existence in spite of the short indicated life means that some process of replenishment of the supply must be operative. The RS theory says that the supply of galactic clusters is continually being replenished by globular clusters, which fall into the galaxy and are broken

up by the rotational forces. This is the *only* adequate explanation that has ever been advanced, and since the current thinking of the astronomers does not permit them to accept it (although Bok and Bok, who discuss the question at some length, concede that it would be “tempting” to do so) they are forced to admit that “We do not pretend to know from where the (galactic) clusters came.”

The striking fact is that wherever the data obtained from observation favor one explanation over the other, they invariably indicate that the RS theory is correct. Why then do the astronomers persist in their support of an explanation, which conflicts, with so much of the available knowledge in their own field? It is true that the astronomical profession has been inclined to favor theories that envision formation of galaxies as complete units rather than theories which build them up by some kind of an aggregation process, but it does not deny the possibility that the latter may be correct, and it recognizes cosmological theories incorporating the aggregation hypothesis—the Steady State theory advocated by the Cambridge group of astronomers, for example—as legitimate speculations, hence this preference is not sufficient to explain the blind allegiance which is given to the CA theory. What has actually happened is that the astronomers have rejected the evidence from their own observations and have turned their backs on simple and logical explanations which they admit they are “tempted” to accept, solely in order to conform to an unsupported assumption that has been made by another group of scientists in another field of science. This is one of the most astounding situations in all scientific history.^{*15}



ABOVE: IMAGE BY ESA/HUBBLE & NASA — OF STAR HEN 2-427, KNOWN AS WR 124, AND THE NEBULA M1-67 WHICH SURROUNDS IT. *16

A LESSON IN PERSPECTIVE

On September 3rd, 2003 ...



..the Hubble Space Telescope began pointing its camera at a small area in the night sky.

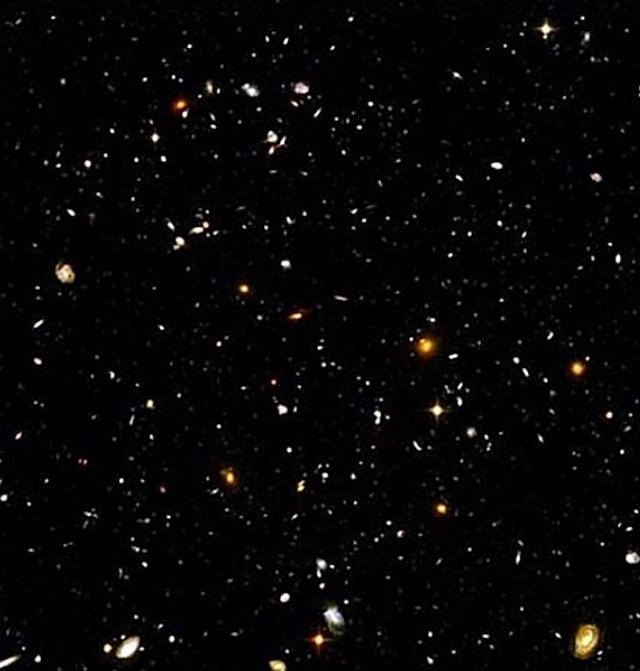


The area, about a tenth the size of the full moon, appeared to be complete blackness with no stars visible to the naked eye.



Hubble kept its camera pointed there for over 4 months, taking in all the light it could.

This is what Hubble saw...



Each dot in this image is an entire galaxy.

Each galaxy contains up to 1 trillion stars.
(1,000,000,000,000)

Each star may have a system of planets.

THERE ARE OVER 10,000 GALAXIES
IN THIS PHOTO ALONE.



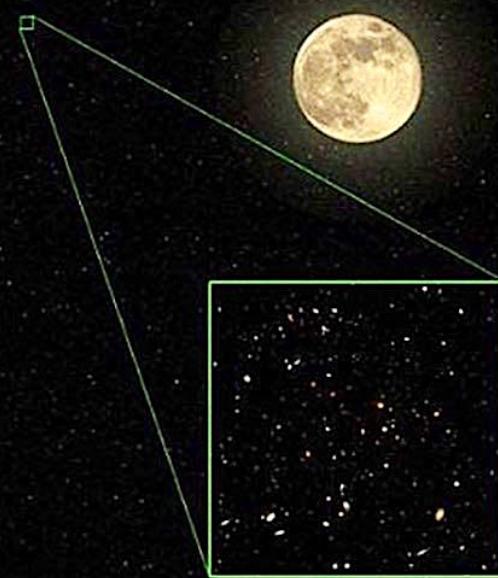
These are the most distant objects ever photographed.
More than 13 billion light years away.

The large galaxy pictured here contains 8 times as many stars as our Milky Way Galaxy. It is so large, it technically shouldn't exist according to current physics theories.

The large galaxy pictured here contains 8 times as many stars as our Milky Way Galaxy. It is so large, it technically shouldn't exist according to current physics theories.

The entire Star Trek series taken place in ONE galaxy.
The USS Enterprise (NCC- 1701-D) at maximum warp (9.6) would take almost 10 million years to reach this Galaxy.
lol, grab a snickers.

All from what looked like NOTHING!



ABOVE: SPACE IMAGES BY HUBBLE/NASA — 'EVIDENCE OF A GREATER UNIVERSE IN EXISTENCE THAN THE HUMAN MIND PERCEIVES'. *17

Duality vs Nonduality

Science versus Spirit.

Q: How can one clarify the relationship between science and spirituality?

A: It entails simply being aware that all life can be described from two different approaches or categories of thought: linear versus nonlinear.

The domain of ordinary consciousness (linear) is concerned with form, logical sequence, and perception, which separate, define, and categorize. The scientific world is thus contained within the Newtonian paradigm of reality and its languaging and expressions as mathematics, science, and technology. Explanations in the Newtonian paradigm are based up on the presumption of the hypothesized process called 'causality'. It deals with forces and measurements, such as time, duration, distance, speed, weight, and dimension. This mode of perception and its languaging allow for relatively accurate prediction. When events fall outside the predictable and comprehensible or that which is explicable by differential calculus or measurement, the data have been traditionally ignored or discarded as noise or chaos. The Newtonian universe is therefore definable, logical, predictable, and coincides with linguistics, conventional semantics, and explanations by reason of causality.

This is also the realm of the ego where perception sets up the categories of the 'opposites'. The underlying weakness of this paradigm is that it projects the mental mechanisms of cognition onto a presumed and purportedly self-existent 'objective' universe that exists independently of the observer. This paradigm fails to recognize the crucial and ever-present substratum of subjectivity that is the basis of all experience and observation or so-called scientific description. Therefore, this deficiency reveals an underlying epistemological flaw in that all purported objectivity rests solely upon subjectivity that is present as necessary substrate of all that is 'objectively' possible.

To merely state that objectivity exists is already a subjective statement. All information, knowledge, and the totality of all experience are the product of subjectivity, which is an absolute requirement intrinsic to life, awareness, existence, and thought.

It is not possible to make any statement that is not inherently subjective as its substratum. Based on perception are the animal world, sensation, and the human emotions and motivations of like and dislike. These subsequently elaborate into psychological mechanisms, attitudes, and individuality. In the world of perception, differences are all-important, all-defining, and spell out value, desirability, and pleasure/displeasure within the contrasting sets of opposites of attraction and aversion. This leads to either seeking or avoidance and the determination of value and desirability that then become the mainspring of society.

In contrast to the tangible and visible linear, sequential world of cause, effect, and form based on perception, there is the infinite, all-encompassing domain described as 'nonlinear'. It has only recently been addressed by science in the fields now labeled 'chaos theory' and 'nonlinear dynamics'. The study of nonlinear dynamics was only recently occasioned by the advent of rapid modern computers which could detect ultra-minute events that had previously been ignored as stochastic (meaningless), indefinable, and outside the world of predictable order.

In order to be 'objective', science excluded the essentially human elements of experience other than intellects. In contrast, psychiatry and psychoanalysis dealt with the unseen domain of feelings, options, meaning, value,

significance, and the very essence of life itself. All life in its essence is nonlinear, nonmeasurable, and nondefinable. It is purely subjective.

All that is really meaningful and significant in human life is nonlinear, invisible, and unmeasurable. It is the domain of spirituality, life, consciousness, awareness, and existence itself. It is the domain of the subjective and the capacity for experiencing without which knowledge would have no value. This profound substrate has been ignored by science, which relegated it to the 'lesser' significance or importance of philosophy, metaphysics, and mysticism.

Qualities of experience that are of crucial importance to human life, such as love, inspiration, respect, joy, happiness, peace, satisfaction, completion, and fulfillment, have been relegated by science to the 'warm and fuzzy' questionable realities. It was therefore thought that such subjects were 'unscientific' and thereby consigned to philosophy and literature. Even psychology was downsized to experimental data and the Skinner and Pavlovian theories where white mice and levers produced comforting data of reasonable statistical significance of stimulus and response in the pristine atmosphere of the academic laboratory.

The nonlinear domain is invisible, without form, and beyond time, dimension, or measurement. It includes qualities and meanings, and power emanates from its intrinsic essence. The source of power and creation is in the invisible, nonlinear domain and by the exercise of will can result in form. The visible world is therefore the world of effects and the interaction of forces. It is out of inspiration and volition that action arises by assent of the will, which has the capacity to activate possibilities or options.

For simplification, the characteristics of linear as compared to nonlinear can be listed. It is to be realized, however, that they are not separate but mutually inclusive, and that the linear is contained within the nonlinear just as all form is included within the formless. These are, therefore, not two different realms but are the same viewed from two different points. In common parlance, we speak of digital versus analog, left brain versus right brain, holistic versus specific, or limited versus unlimited to imply that there are two different, contrasting approaches to reality.

Newtonian Linear	<i>Nonlinear</i>	Newtonian Linear	<i>Nonlinear</i>
Duality	<i>Non-duality</i>	Without	<i>Within</i>
Form	<i>Formless</i>	Exclusive	<i>Inclusive</i>
Ego	<i>Spirit</i>	Physical	<i>Metaphysical</i>
Material	<i>Nonmaterial</i>	Thing	<i>Witness</i>
Visible	<i>Invisible</i>	Object	<i>Observer</i>
Force	<i>Power</i>	Either-Or	<i>Both</i>
Time	<i>Timeless</i>	Here-There	<i>Everywhere</i>
Location	<i>Nonlocal</i>	Divided	<i>United</i>
Limited	<i>Unlimited</i>	Part	<i>Whole</i>
Duration	<i>Eternal</i>	Forcing	<i>Facilitating</i>
Perception	<i>Vision</i>	Adrenalin	<i>Endorphin</i>
Quality	<i>Essence</i>	Desire	<i>Fulfill</i>
Know About	<i>Be</i>	Tension	<i>Relaxation</i>

Newtonian Linear	<i>Nonlinear</i>	Newtonian Linear	<i>Nonlinear</i>
Dimension	<i>Immeasurable</i>	Incomplete	<i>Complete</i>
Tangible	<i>Intangible</i>	Caesar	<i>God</i>
Desire	<i>Inspire</i>	Cost	<i>Value</i>
Material	<i>Spiritual</i>	It	<i>I</i>
Local	<i>Diffuse</i>	Dependent	<i>Independent</i>
Motion	<i>Immobile</i>	Illusion	<i>Reality</i>
Move	<i>Still</i>	Temporal	<i>Infinite</i>
Audible	<i>Silent</i>	Secular	<i>Spiritual</i>
Mathematical	<i>Unpredictable</i>	Describable	<i>Ineffable</i>
Travel	<i>Stationary</i>	Deplete	<i>Sustain</i>
Fact	<i>Meaning</i>	Observed	<i>Awareness</i>
Difference	<i>Sameness</i>	Desire	<i>Motivate</i>
Separate	<i>Oneness</i>	Change	<i>Unchanging</i>
Distinct	<i>Diffuse</i>	Vulnerable	<i>Invulnerable</i>
Start - Stop	<i>Continuous</i>	Thought	<i>Consciousness</i>
Finite	<i>Infinite</i>	Want	<i>Satisfaction</i>
Duration	<i>Timeless</i>	Conflict	<i>Peace</i>
Structure	<i>Quality</i>	Stress	<i>Ease</i>
Effect	<i>Source</i>	Proof	<i>Self-evident</i>
Sequential	<i>Simultaneous</i>	Price	<i>Value</i>
Precise	<i>General</i>	Impulsive	<i>Spontaneous</i>
Controllable	<i>Useable</i>	Relative	<i>Absolute</i>
Exhaustible	<i>Inexhaustible</i>	Past-Future	<i>Now</i>
Depleted	<i>Ever Present</i>	Limited	<i>Transcendent</i>
Observe	<i>Know</i>	Scientific	<i>Mystical</i>
Content	<i>Context</i>	Object	<i>Field</i>
Material	<i>Life</i>	Receive	<i>Give</i>
Object	<i>Subject</i>	Definition	<i>Meaning</i>

Q: How does one transcend the opposites?

A: Consciousness does so automatically when understanding occurs through reflection, familiarity, prayer, meditation, or inspiration. It is also facilitated by the words or level of consciousness of the teacher. What is impossible at one level of consciousness becomes obvious and simple at a higher one. A human being is both spirit and body; therefore, it is at all times actually existing in both the linear and the nonlinear domains. The body, unless

imbued with consciousness and subjective awareness, is not aware of its own existence. It takes action only when it is motivated and presented with value, such as the desire for enjoyment in the experience of life.

When a person or animal becomes 'dispirited', it dies. When the life force or spirit no longer energizes the body, the spirit then leaves and goes to a different dimension. Although it is in a different dimension, the consciousness level of the spirit can still be calibrated by the simple muscle test. Some spirits leave the body in a state of joy, ecstasy, or bliss. Others do so in the lower states of despondency, such as anger, guilt, or hatred. These states will then obviously affect the destination of the spirit, which has been traditionally called the soul or nonmaterial aspect of life. When the spirit leaves the body, its destination correlates with its specific level of consciousness as determined by its calibrated frequency, which one can presume leads to the different levels of hell, purgatory, limbo, heavens, and celestial realms as well as astral levels ('inner planes') or discarnate states.

Like a cork in water or a balloon in the atmosphere, each spirit rises to its own level of buoyancy within the infinite realms of energy fields of consciousness. No external 'judgment' or divine coercion is involved. Each being radiates forth its essence and so determines its own destiny. Thus is divine justice perfect. By choice, each spirit becomes what it has chosen. Within all realms there exists the moment-to-moment choice of the absolute reality that is ever present and whose absolute choice results in liberation.

By analogy we could say that the soul, united with a physical body or not, is somewhat like a small particle within an electromagnetic field. The attractions and repulsions of the particle depend on its size, charge, polarity, and position within a larger field that includes gradations of energy, power, and different qualities to which the particle would be attracted or repelled. All possibilities and eventualities are therefore a reflection of the state of consciousness or level of evolution of the individual within the All. It is inescapable because the individual is an essential 'part' of the All. One could say that each level of consciousness is represented in the field as an 'attractor', as in *chaos theory*.

This design is observable in everyday life in human interaction with its likes and dislikes, along with its attractions and repulsions as expressed in lifestyles, occupational choice, social behaviors, habits, frailties, strengths, and group identifications.

Q: Are there simple devices or techniques that facilitate this progression?

A: Differentiate the 'this' from the 'that', the 'who' from the 'what', the 'volitional' from the 'automatic', and the 'observer' from the 'observed'. The bridge is afforded by delineating the observer/witness/ awareness of consciousness. It is like differentiating the capacity for hearing and seeing from what is seen and heard.

The Eye of the I is the Self that gives the self its capacity for awareness. Without the sun shining forth, nothing would be visible. Without the light of the Self, the self would not even know of its own existence. Were it not for the awareness of consciousness, neither the body nor the ego would know that the other exists. Holiness reflects that Divinity is the source of existence of All That Is, including the Self.

The infinite, timeless, nondualistic Self shines forth in the world of duality and perception as self. It is characteristic of self to be unaware of its actual source. The ego, in fact, primarily refutes its source and instead claims it to be separate, autonomous, self-activating, and independent. Once the ego has advanced to the level of reason and intellectual capacity, it reaches its limit and seeks beyond itself for answers. At the lower levels of intellectual evolution, however, the intellect tends to be prideful, it tends to claim credit for all capacities or actions, and it claims authorship and sees itself as the pinnacle of evolution.

The mature intellect, at some point, discerns spiritual information, which it then pursues. Again, it may be blinded by pride and positionalities. With further experience and serious spiritual work, humility lessens the grip of the intellectual ego and allows for the more profound experiencing of progressively higher states of spiritual awareness. This threshold is a gift that accompanies the willingness to love, and the inspiration that ensues leads to emergence into the realms of peace and joy. Compassion then becomes dominant and transforms perception into vision. With completion of the process, the self dissolves into the Self. This level, which calibrates at 600, marks the level of consciousness that the world has traditionally referred to as Enlightenment. At this point, bliss may bring about incapacitation as far as further functioning; however, if the bliss itself is then surrendered to God, the state of the Sage ensues. As this stage ripens, there may or may not be a return to the world where the Will of God determines all that follows.

Q: Does the sense of self disappear? After all, the ego fears death.

A: When the self dissolves into the Self, it is experienced as a great expansion from limited, transitory, and vulnerable to immortal, infinite Allness that transcends all worlds and universes. As such, the Self is not subject to death or birth, as it exists beyond temporality. The obscurity of the Self was the result of merely misidentifying perception as representing all Reality.

Q: What of physical death?

A: It may sound surprising, but no one actually experiences their own death. There is, of course, the experience of the conditions that precede death, but when actual physical 'death' occurs, one instantly leaves the body effortlessly and merely witnesses the body's death. With separation from the body, the former experiencer or inhabitant becomes aware that it is a spirit. Sometimes at this point, denial sets in. The spirit is then attracted to its destination by the actions of attraction or repulsion, which are the automatic consequences of the soul's evolution.

Again, the freedom to choose is present. Salvation is assisted by devotion to spiritual truth and its teachers. The mercy of God is infinite and unconditional. The soul alone has the power to determine its own fate. Each soul is attracted to the appropriate level, with absolute precision. That which is omniscient is incapable of injustice or caprice. Thus it is that 'every hair on one's head is counted' by virtue of the infinite knowingness of the field. Nothing escapes detection or consequence.

Q: Whither science?

A: The understanding of the basic structure of the material world has reached a major state of advancement with the demonstration and discovery of the last remaining elusive 'tau neutrino'. Science will probably move its interest to epistemology since a continuation of the function of science would be the study of consciousness itself. In order to proceed, it will be necessary to be very clear on how does one know and how does one know that one knows.

The universe will be discovered to be an extrapolation of man's categories of concept formation and processing. Eventually, the limits of the Newtonian paradigm of reality (a consciousness level of 499) will be transcended, which opens for study the processes of Nature and life itself, which are beyond logic, form, perception, and duality.

Spiritual inquiry will become legitimate and investigation will look within instead of without. The search for objective reality will be discovered to be purely subjective, which discovery is in itself the road to Enlightenment. Mankind will be lifted to greater and greater heights and eventually to a unity in which each lives for the All.

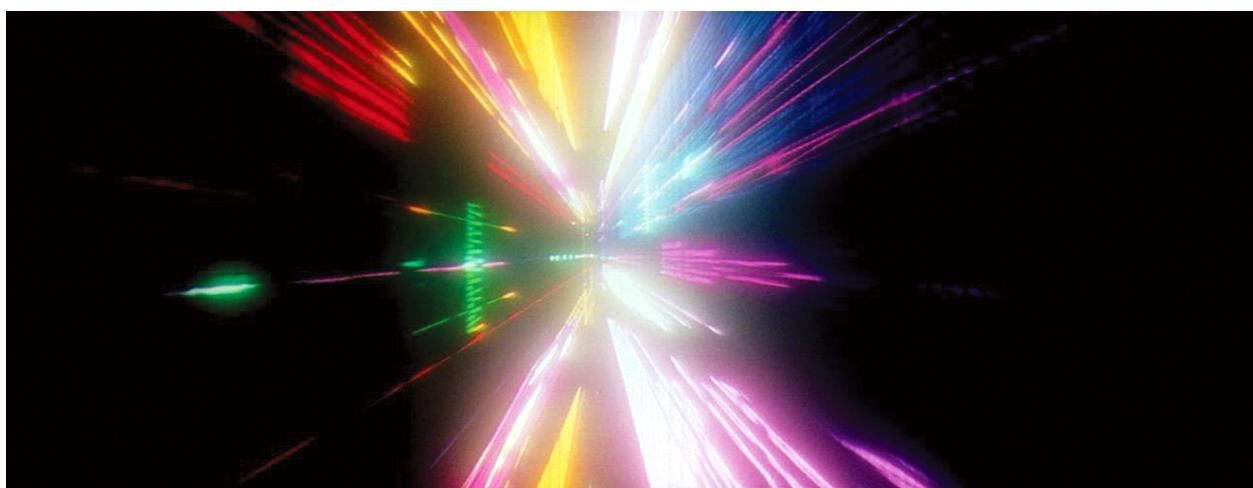
This evolution has only become an actual possibility in very recent years. The total field of consciousness of humanity is rising. Of major importance is that it finally crossed over the critical consciousness level of Integrity (Truth) at 200, and rose to the present level of 207. Every act of kindness, consideration, forgiveness, or love affects every one. Even in the physical world, there are yet more dimensions to be discovered, e.g., the speed of light can be exceeded (as reported by Lijun Wang in *Nature*, July 20, 2000). The universe is expanding at an ever-increasing rate. To know the nature of consciousness catapults understanding to ever-expanding capacities and discoveries. The journey is from knowing to Knowing from perception to omniscience. The true scientist sees everything as equally important. As a result, today's real scientists will become the mystics of the future. The dedication to truth is the only requirement.

Developments in genetics and bionics will make ethics and consciousness increasingly important. We will indeed need to know what it is that makes a human being a human being.

Q: How does transcending these apparent opposites relate to self-realization or enlightenment?

A: Simply put, realization or enlightenment is the condition where the sense of self moves from the limited linear material to the nonlinear infinite and formless. The 'me' moves from the visible to the invisible. This occurs as a shift of awareness and identification from perception of form as objective and real to the realization of the purely subjective as the ultimate reality.

That which is the ultimate and eternal transcends both objectivity and subjectivity and is beyond awareness. It is referred to in the ancient spiritual literature as the Supreme Spirit. Out of the Supreme arises all that is manifest and unmanifest, all consciousness and awareness, all existence; All That Is, either form or nonform, all that is linear and all that is nonlinear; all that arises out of creation, all possibility and actuality. The Supreme is beyond existence or nonexistence, beyond beingness or is-ness, beyond all gods, heavens, and spiritual forms, beyond all names or definitions, beyond all divinities and spiritual denotations. It is out of the Godhead that Divinity arises, and out of the Supreme arises the Godhead. *18



ABOVE: STILL FROM THE '2001: A SPACE ODYSSEY' FILM'S END SEQUENCE — 'OF ASTRONAUT TRANSCENDING BEYOND LINEAR LIFE'. *19

The Underlying Destiny of Humanity

Certainly, what the above demonstrates is that things are not always what they seem. Most notably, there exists a quantum field of waves outside of human control that determines the overall course of events. The actors in the drama are for the most part not aware of the nature of the drama they are participating in and are just unconsciously surfing on the waves. People who are not knowledgeable about the Mayan calendar or were misled into believing in a sudden change on "December 21, 2012", are not likely to have the tools to understand on a deeper level what is going on in the current world. Needless to say, the many misrepresentations of the Mayan calendar prior to 2012 have served to disempower humanity as the quantum nature and predictive power of this calendar remain unknown to most of it.

The fact that this quantum field influences the evolution of the human mind in an imperceptible way is also the basis for many conspiracy theories in our own time. Because of the nature of the global mind we sense that the world is directed by something bigger than ourselves, but may not understand exactly what this is. I am pointing this out because both Brexit and Trump have with some variation received support by prominent conspiracy theorists such as David Icke and Alex Jones. They may however not know what is going on at a deeper level since they have not explored the source of the waves that are creating our reality (which is truly divine). Regardless, to me at least it is difficult to see how a billionaire (member of the privileged one per cent), who embodies the supremacist ideals of the Sixth Wave (starting already with the duality of the mind that created the pharaohs) and who denigrates women, Mexicans, blacks and disabled people and threatens his opponents with weapons, could ever mean something positive for our future.

In this, I am not merely taking a regular political stand, but am pointing to the fact that in the current civilizational shift we have to consider the consequences of our choices more deeply. While it seems clear that it will not over the next couple of decades be possible to uphold Western dominance in the world, I also believe that the transition to a more balanced and egalitarian world can take place in a more or less constructive way. For this our intentions are crucial and it does not make sense to try to counter globalization by electing a dictator. Besides, the real issue is not whether our world is ruled locally or globally. What matters is if it comes out of a mind of duality or of unity and in not presenting this choice as it is, I think the conspiracy theorists have gone seriously wrong by supporting an obvious representative of Pharaonic duality. Ultimately, we have to find peace from global unity and not by withdrawing to some purported national superiority. Hence, for the western powers to go back to nationalism or isolationism does not remove the duality of the Sixth Wave, which is what created inequality and dominance in the first place.

How then are we to do so? Well, everything starts with an intention and that is crucial. The second factor is to thoroughly understand the waves that drive human evolution, not only as here limited to the Sixth Wave, but all the Nine Waves. Such a study may make us realize that the quantum field is not malevolent and from this it is possible to grasp the destiny of humanity to create a Golden Age, which we need to focus on in order to manifest it. As long as some preach that the matrix is malevolent humanity can only go towards a dead end street of darkness. The truly critical factor to move forward is to shift frequency from the Sixth Wave to the Ninth Wave that is part of the same matrix. Rather than following the Sixth Wave, which we have seen here carries a dualist mind creating empires and relationships of dominance between people, we can now after 2011 chose to follow the Ninth Wave and the generation of a unified global civilization without the dominance of the "one percent". It is through this that we may create the Golden Age, which represents the future of humanity and so transcend the dualities of the past. I believe this is the only road forward in the decades ahead and any attempt at dealing with our current situation that does not have the creation of such a Golden Age as an intention is bound to fail. ^{*20}

Reverse Potential

Walter Russell shows here that sensed observation can result in incomplete vision and incomplete scientific laws. He points out that Newton based his law of gravitation on his observation of what gravity did to an apple, while admitting he did not know what gravity was. Newton did not sense the whole cycle of the apple in time "falling" up to the heavens as it disintegrates and reverses potential.

Walter Russell states that Newton's mathematical formulae, written to prove that the moon would fall into the earth if its motion were stopped, applies to "every satellite, planet and star in the heavens, as well as to every electron in every atom, none of which are falling into their primaries." Walter Russell implies that Newton's laws of gravitation were incomplete. It is obvious from the Russell cosmogony that the moon can never stop its motion, nor can any of the other bodies that move around their primaries stop moving. They do not fall because they are always seeking and finding, losing and refinding their potential positions in their movements. If they were to stop their motion, they and all the Universe would disappear. If they were to stop their orbital motion and move inward or outward, to or from their primary, there would be a counterbalancing movement from their primary to balance this change of pattern unto the furthermost reaches of the Universe. ^{*21}

Direction Reversals and The Rotational Base

Larson considered only *linear velocity* to be primary, because he was thinking in spatial terms where the concept of rotation required two dimensions. But consider the case of an astronaut with a baseball, out in the vacuum of space where no other forces are present. He can do two things with that baseball: throw it, where it will continue to move at a linear velocity forever in a straight line, or spin it and it will rotate (angular velocity) forever. In Eastern philosophy, linear motion is *yang* and angular motion is *yin*—"spin is yin." A primary, angular velocity is every bit as probable as a primary, linear velocity.

Larson, in order to get rotation with a "yang only" approach, he needed *something to rotate*, which gave rise to two devices, that of the *direction reversal* and *rotational base*. The direction reversal is simply a diameter on which to create rotation as an angular velocity, resulting in the rotational base. This rotational base supplied the missing component on which to build atomic rotations that was not present in a purely linear system.

In RS2, the reevaluation of the Reciprocal System, we assume that the *yin*, angular velocity is a primary motion along with the *yang*, linear speed, completing the "tao of motion."

Taking this geometry into account, the progression of the natural reference system is still "outward at unit speed," but with one aspect being a linear, outward speed (a translation) and the other aspect being an angular, outward speed (a rotation). Therefore, every location is potentially a "rotational base" and the concept of a "direction reversal" is unnecessary, because rotation is primary and RS2 does not require "something to rotate."

This infers that the concept of *vibration*, which Larson associates with his direction reversal, is *not* a primary motion but only arises as *shear strain* from oppositely directed motions, such as the counter-rotations of a birotation as expressed in Euler's formula, $e^{ix} + e^{-ix} = 2 \cos(x)$. ^{*22}

"All human knowledge begins and ends in ignorance." —J. Stanley Grimes

Proof that the “Differential” is the Missing Graviton

... Boyd Bushman knew more than any of us can imagine.

He showed me part of the secret to antigravity. I was already aware of differentials, but they were not proven yet. Bushman placed this object he called a “Celt” or “Rattle back” originally discovered in ancient Egypt and England. It was a plain piece of clear green plastic shaped like a canoe. He said it is an ancient experiment that holds a secret to understanding gravity and anti-gravity. He spun this perfectly balanced Celt on a table anti-clockwise and then clockwise. What happened and what happens every time you do this, and I tried it also, is that it reveals a violation to Newton’s III Law: that all forces opposing one another being equal unless acted upon by an outside force.

The Celt spun unaffected counterclockwise. When spun clockwise, it rattled backwards (hence the name) after just a few rotations. That means that the force of clockwise and anti-clockwise right inside of the atoms all around us and the spin of the Earth itself, are not equal and do not cancel each other out to zero. Counterclockwise is stronger in the Northern hemisphere. I would guess in the Southern hemisphere, it would be the opposite. ^{*23}

Reversal in Time

President Trump’s pick to be the new secretary of state, Mike Pompeo, is not a fan of the Paris climate agreement, the treaty that claims it will slow global warming by reducing the world’s carbon dioxide emissions. Politicians from most of the world’s nations signed the deal, and President Obama said “we may see this as the moment that we finally decided to save our planet.”

That’s dubious.

Trump wisely said he will pull America out of the deal. He called it a “massive redistribution of United States wealth to other countries.”

Unfortunately, Trump often reverses himself.

The climate change lobby has been trying to change Trump’s mind. Al Gore called his stance “reckless and indefensible.” Most of the media agree. So do most of my neighbors in New York.

That’s why it’s good that Pompeo opposes the Paris deal. Such treaties are State Department responsibilities. Pompeo is more likely to hold Trump to his word than his soon-to-be predecessor Rex Tillerson, who liked the agreement.

The Paris accord is a bad deal because even if greenhouse gases really are a huge threat, this treaty wouldn’t do much about them.

I’ll bet Al Gore and most of the media don’t even know what’s in the accord. I didn’t until I researched it for this week’s YouTube video.

Manhattan Institute senior fellow Oren Cass is the rare person who actually read the Paris accord.

Cass tells me it's "somewhere between a farce and a fraud." I interviewed him for a video project I am doing with City Journal, a smart policy magazine that often makes the case for smaller government. "You don't even have to mention greenhouse gases in your commitment if you don't want to. You send in any piece of paper you want."

The Paris accord was just political theater, he says. "They stapled it together and held it up and said, 'This is amazing!'"

The media announced that China and India made major commitments.

In truth, says Cass, "They either pledged to do exactly what they were already going to do anyway, or pledged even less. China, for instance said, 'we pledge to reach peak emission by about 2030.' Well, the United States government had already done a study to guess when Chinese emissions would peak, and their guess was about 2030."

In other words, China simply promised to do what was going to happen anyway.

"China was actually one of the better pledges," says Cass. "India made no pledge to limit emissions at all. They pledged only to become more efficient. But they proposed to become more efficient less quickly than they were already becoming more efficient. So their pledge was to slow down."

It's hard to see how that would help the planet.

"My favorite was Pakistan, whose pledge was to 'Reach a peak at some point after which to begin reducing emissions,'" says Cass. "You can staple those together, and you can say we now have a global agreement, but what you have is an agreement to do nothing."

However, Cass says one country did make a serious commitment. "The one country that showed up in Paris with a very costly, ambitious target was the United States. President Obama took all the zero commitments from everybody else but threw in a really expensive one for us."

Obama pledged to reduce emissions by 26 percent. If that ever happened, it would squash America's economy.

Nevertheless, when Trump said he was leaving the Paris accord, he was trashed by politicians around the world.

The UK's Theresa May was "dismayed," and Obama said, "This administration joins a handful of nations that reject the future."

Cass counters that if "the future is worthless climate agreements ... we should be proud to reject."

Don't get me wrong: The Earth has been warming, and humans probably contribute to it.

But the solution isn't to waste billions by making emissions cuts in America while other countries do nothing.

Trump was right to repudiate this phony treaty. It's good that Pompeo is around to remind him of that.^{*24}

"We change the world not by what we say or do but as a consequence of what we have become."

—Dr. David R. Hawkins

Cosmological Conclusions

Two general theories have emerged from the work of the astronomers. Both theories accept what is known as the *Cosmological Principle*, which asserts that the large-scale aspects of the universe appear the same from all locations in space. The *Steady-State* theory extends this to what the originators call the *Perfect Cosmological Principle*. This extension asserts that the large-scale aspects also appear the same from all locations in time. The *Big Bang* theory rejects this broader principle, and postulates an evolutionary development from an earlier to a later state. In the simple theory these are initial and final conditions. A variation of the theory postulates a reversal at each end of this evolutionary path, leading to a never-ending oscillation between the two extremes.

Neither theory has more than a very few aspects that can be checked against observation, and both are therefore highly speculative. Their relative degree of acceptance has fluctuated as the small amount of relevant observational data has increased. At present the Steady State theory is at a low ebb, because its supporters have not yet been able to find acceptable explanations, within the theory, for some of the more recent observations. The results of this work indicate that such explanations exist, and if it were not for the fact that those results rule out the Steady State theory for other reasons, it could be put back on its feet again.

The crucial observation that any proposal must be prepared to explain (or explain away) is the recession of the distant galaxies. An explanation of the observed high degree of uniformity in space is also required, whether or not the Cosmological Principle is accepted. These items clearly have a direct relation to the pattern of evolution, whatever it may be. The status of the other items currently being offered as evidence is less critical. Much stress is being laid on the "black body" background radiation recently discovered, but it is difficult to see why the ability of a theory to explain the existence of this radiation has any more significance than ability to explain any other currently obscure feature of the universe, the similar x-ray background radiation, for instance, or the cosmic rays, or the origin of galaxies, or any one of dozens of other items.

The ability of a theory to explain any one of these observed phenomena is a point in its favor, to be sure, but when there are so many other equally significant items that it *cannot* explain, it is clearly a gross exaggeration to brand this particular item as crucial. What has happened is that because neither theory can explain hardly anything, the significance of this one item that the Big Bang theory has some kind of an explanation for has been blown up all out of proportion to its real importance. The sad fact is that while almost everything that happens in the universe is relevant to this issue in one way or another, none of the theories heretofore advanced has a broad enough base to enable it to deal with more than an insignificant number of these items.

The Big Bang theory assumes ad hoc that at some time in the past the entire contents of the universe were gathered together in a limited amount of space, and that a gigantic explosion occurred for some unspecified reason, ejecting all, or most, of these contents into space at the speeds that are now observed. It offers no explanation of the situation existing prior to the hypothetical explosion, or of the explosion process itself. It accepts the Cosmological Principle, but has no explanation of the uniformity that the principle requires. As noted earlier, the existence of the recently discovered background radiation, an explanation of which is provided by the theory, is not of major importance from the standpoint of verifying the validity of the theory, but it does give the Big Bang an edge over its current rival. The significance of this advantage is greatly exaggerated in current astronomical thought. The following comment from a 1980 publication is typical of the general attitude:

Why are we here taking for granted that there was a Big Bang origin of the Universe? The reason is that the existence of the 3K radiation field is incompatible with the steady-state theory.

This so-called “reason” is totally illogical. The validity of a theory has to be established affirmatively; it cannot be proved by eliminating the *known* competitors, because no one can say how many unknown competitors may exist. Indeed, a number of alternative ideas, or variations of the two principal theories, have already been advanced. None of these has thus far received much support, but their existence is sufficient in itself to demonstrate the wide open nature of this issue.

Many efforts have been made to obtain affirmative support for an evolutionary type of theory, such as the Big Bang, by finding a difference in the density of some class of astronomical objects between those nearby and those at great distances. The radiation now reaching us from the most distant objects within observational range was emitted in an earlier era when the density, according to this type of theory, was greater than it is now. Some success in this endeavor is claimed on the basis of counts of radio sources. These appear to show that faint sources are more numerous than would be expected from a uniform distribution, tending to support the assertion that the sources have moved apart in the intervening time. However, the significance of the observations has been questioned because most, if not all, of the distant sources are quasars, and the astronomers’ current understanding of these objects is too limited to give them much confidence in arguments based on assumptions about their properties. The information developed in the preceding chapter shows that this skepticism is well-founded, as it indicates that the assumption of a three-dimensional distribution, on which the density calculations are based, is not valid for the distant quasars.

The case in favor of the Big Bang theory (as distinguished from the case against its rival, the Steady State theory, which we will examine shortly) can be summarized as follows:

1. *It is an explanation (a second-class explanation, we might say, as it is purely ad hoc) of the recession of the distant galaxies.*
2. *It is consistent with the observed large-scale uniformity of the universe.*
3. *It produces an explanation for the black-body background radiation.*

A similar summary of the case in favor of the Steady State theory consists of these items:

1. *It is an explanation (likewise a second-class explanation, because it is lacking in detail) of the recession of the galaxies.*
2. *It is consistent with the large-scale uniformity of the universe.*
3. *It incorporates the space-time symmetry of the Perfect Cosmological Principle.*

The most striking feature of both of these lists is how little they explain in covering such an immense subject area. As Verschuur sees the situation, “It is undoubtedly true that we know very little about the cosmological questions that have been posed so far.” As a result, the case in favor of either theory is argued mainly on the basis of whatever points can be scored *against* its opponent. The lists of negative evidence are formidable. First, the Big Bang:

1. *The fundamental premise of the theory is entirely ad hoc.*
2. *The theory offers no explanation of its basic elements. Neither the antecedents of the postulated explosion, the special conditions assumed to exist at the time of the event, nor the mechanism by means of which this event was initiated, is in any way accounted for.*

3. *The scale of the magnitudes involved is far out of line with experience, or even a reasonable extrapolation of experience.*
4. *No explanation is provided for the degree of isotropy now observed in the universe.*
5. *The theory provides no explanation for a large number of physical phenomena that are directly connected with the evolution of the hypothetical explosion products (aside from the background radiation).*
6. *Because of this lack of detail, it is untestable.*

The case against the Steady State theory rests on these points:

1. *The theory violates the conservation laws by requiring continuous creation of matter.*
2. *It provides no mechanism whereby the newly created matter can exert the force that is assumed to cause the outward motion of the previously existing matter.*
3. *It provides no mechanism for removing old matter from the system to keep the age distribution at the postulated constant level. (The oldest galaxies are presumed to disappear over the "time horizon," but even if this is considered to remove them from the universe—an assumption that rests on rather shaky ground—it serves the purpose only until the galaxy from which the time horizon is observed becomes the oldest. Thereafter, the age of the oldest galaxy in the observable system continually increases.)*
4. *It provides no explanation for a large number of physical phenomena (including the background radiation) that are directly connected with the evolution from diffuse newly created matter to old receding galaxies.*
5. *Because of this lack of detail, it is untestable.*

It is clear that the evidence in support of either of these theories is ridiculously inadequate for verification. But because of the tendency to pass judgment on the basis of the arguments against one or the other, which are strong in both cases, the recent discovery of the background radiation has tipped the balance in favor of the Big Bang. The prevailing attitude in astronomical circles is described by Jay Pasachoff in these words:

So at present almost all astronomers consider it settled that radiation has been detected that could only have been produced in a big bang.

This is a particularly outrageous example of the "This is the only way" fallacy... It assumes first that since the background radiation *has not been* explained in terms of the Steady State theory, it *cannot be* so explained. This is pure nonsense. It should be obvious that no one is in a position to say what is impossible for an open-ended theory of this kind. There is still less justification for the assumption, likewise implicit in the conclusion, that no other tenable cosmological theory is conceivable.

Some observers do see the weaknesses in the case for the Big Bang, and take a more cautious stand, as in the following statements:

- *Even if this general picture (the Big Bang) seems consistent with what is known at the moment, it would be rash to bet too heavily on it being correct, even in outline. (Martin Rees)*
- *No one acquainted with the contortions of theoretical astrophysicists in the attempt to interpret the successive observations of the past few decades would exhibit great confidence that the solution in favor of the hot big bang would be the final pronouncement in cosmology. (Bernard Lovell)*

In any event, the “no other way” argument is immediately and totally demolished when, as in this case, the allegedly impossible alternative is actually produced. Emphasizing the absurdity of the “only way” argument, it also turns out that the alternative explanation of the background radiation supplied by the present development was previously suggested by Fred Hoyle as a means by which that radiation could be accommodated within the Steady State theory. Hoyle’s suggestion, admittedly ad hoc and given scant attention by his adversaries, was that the background radiation comes from an unseen region of the universe. This is essentially the same conclusion reached deductively from factual premises in this work.

The new factual information derived from the scalar motion investigation, and reported in the preceding pages of this volume, now enables us to put together a factual alternative to the existing unsatisfactory cosmological theories, a new *understanding*, we may call it, to distinguish it from a theory. Cosmological questions have been in the realm of speculation and theory for so long a time that it may be hard for many individuals (particularly astronomers) to believe that some of the most significant of these issues can now be approached as matters of fact. Yet even a casual consideration of the conclusions derived from purely factual premises in the preceding pages will show that they go directly to the heart of major cosmological issues. The Big Bang, for instance, is automatically ruled out by the finding that the galactic recession originates from a different cause. Other facts disclosed by the scalar motion study, and the necessary consequences of those facts, similarly serve as guideposts by which we can trace the evolutionary path that the contents of the universe actually follow. The path thus defined differs in many respects from the course of events portrayed in present-day astronomical theory, but it is in full agreement with the results of *observation*, as a purely factual development necessarily must be.

Let us now review the principal factual findings that are pertinent to the cosmological issues.

1. *Because of the reciprocal relation between space and time in scalar motion, there is an inverse sector of the universe in which motion takes place in time rather than in space. All scalar motion phenomena in three-dimensional space are thus duplicated in the cosmic sector, the sector of motion in time.*
2. *There is a limiting size for galaxies, and at least some of those that reach this limit explode, ejecting fragments, known as quasars, at speeds in the ultra high range, between two and three times the speed of light.*
3. *When the retarding effect of gravitation is reduced enough by distance to bring the net speed of a quasar above two units (twice the speed of light) the gravitational effect inverts, and the constituents of the quasar are dispersed into three-dimensional time (the cosmic sector of the universe).*
4. *The effect of the explosion and its aftermath is to transform a quantity of matter from a state in which it is highly concentrated in space to a state in which it is widely dispersed in time.*
5. *By reason of the reciprocal relation between space and time in scalar phenomena, it follows that the inverse of the foregoing processes likewise take place, the net effect of which is to transform a quantity of matter from a state in which it is highly concentrated in time to a state in which it is widely dispersed in three-dimensional space.*

We thus find that there is a constant inflow of widely dispersed matter into the material sector from the cosmic sector. It seems rather obvious that this incoming matter can be identified with the cosmic rays, but this identification is not necessary to the development of thought in the subsequent pages. The essential point is that this inflow of matter takes place in *some* dispersed form.

We have thus identified, on a purely factual basis, the initial state of matter in the material sector of the universe, the sector accessible to observation. This matter arrives in the form of basic units, which we can identify as atoms and sub-atomic particles. We have similarly identified the final state of matter in the material sector as highly concentrated spatially in massive galaxies. It follows that the *essential* process in this sector, the process by which matter is brought from the initial state to the final state, is a process of aggregation.

We know from observation that there are three such aggregation processes. Some of the sub-atomic particles and primitive atoms combine to form larger atoms (atoms of heavier elements). The dispersed material condenses into stars, incorporating whatever heavy elements have formed up to the time of condensation. The stars then aggregate into clusters and galaxies, while the other two processes continue. It will be convenient to examine these processes in the reverse order.

According to our findings, the agency by means of which the aggregation takes place is gravitation. On this basis, the evolutionary stage is indicated by the size of the aggregate. It follows that the smallest self-sufficient stellar aggregate, the globular cluster, is the initial product of the aggregation process, and the various types of galaxies follow in the order of size.

Here we come into direct collision with current astronomical theory. The current belief is that the galaxies were formed directly from the original material of the universe in approximately their present form, and are all about the same age. Jastrow and Thompson give us this explanation:

According to current ideas in astrophysics, the galaxies were born first in the universe, and the stars within the galaxies were born afterward. The main reason for believing this to be true is the fact that stars can be seen forming in galaxies at the present time, out of gas and dust. If all the stars were formed first, and then were clustered together later to form the galaxies, there would be no star formation going on today.

Most astronomers are apparently convinced that stars are forming in certain locations in the galaxies, as indicated in this statement, but, as many of them have pointed out, there is no actual evidence to support this belief. I.S. Shklovskii, for instance, characterizes the "star formation problem" as still in the "realm of pure speculation." Simon Mitton says that it is "almost a total mystery." And even if there is *some* star formation in these locations in the galaxies, there certainly is no evidence that this process accounts for all, or even any more than a small portion, of the total star formation. Thus the conclusion expressed in the foregoing quotation is no more than speculative.

The process of galaxy formation is even more speculative than the star formation process. W. H. McCrea points out that "We do not yet know how to tackle the problem." Laurie H. John gives us this assessment of the present situation:

The encyclopaedias and popular astronomical books are full of plausible tales of condensation from vortices, turbulent gas clouds and the like, but the sad truth is that we do not know how the galaxies came into being.

Two recent developments have eroded what little support the current ideas about galaxy formation were able to claim at an earlier stage of observational knowledge. First is the growing evidence of galactic "cannibalism." M. J. Rees points out that the prevailing ideas are inconsistent with the new information. "One may not be justified in considering a galaxy as a self-contained isolated system," he says, and cites some of the evidence:

We can see many instances where galaxies seem to be colliding and merging with each other, and in rich clusters such as Coma the large central galaxies may be cannibalizing their smaller neighbors... Maybe in a

few billion years this fate will affect our own Milky Way and the Andromeda galaxy, transforming the local group into a single amorphous elliptical galaxy. Many big galaxies—particularly the so-called CD galaxies in the centres of clusters—may indeed be the result of such mergers

The second discovery of recent years that has a bearing on this situation is the abundance of small elliptical and irregular galaxies. Most observations of galaxies have been made on the larger objects, because only the nearest of the small galaxies are visible. The large number of additional dwarf galaxies discovered within the Local Group quite recently, increasing the already high ratio of elliptical to spiral in the region most accessible to observation, has emphasized the extent to which previous conclusions have been shaped by this selection effect. It is now beginning to be realized that, as noted in a 1980 news item, the dwarf ellipticals “may be the most common type of galaxy in the universe.”

The significance of the abundance of these dwarf galaxies, containing from a million to perhaps 100 million stars of the same type as those in the globular clusters, is that it closes the gap between galaxy and cluster. There is now no valid reason for regarding these as two different classes of objects. “We see that there is no absolutely sharp cutoff distinguishing galaxies from globular clusters,” admits Harwit. The globular cluster, too, is a galaxy; a galaxy, junior grade, we may say. Thus, these clusters are the original stellar aggregates, from which the larger galaxies are formed by the capture process.

In addition to fitting into the overall aggregation process of the material sector in a natural and logical way, the identification of the globular clusters as the original products of the star formation process carries with it the identification of the nature of the process, the key element that has been lacking in previous attempts to explain the origin of the stars. The description of the structure of the globular clusters in Chapter 6 is equally applicable to the pre-cluster cloud of dust and gas. If we consider successively larger spherical aggregates of dispersed matter, the particles of this matter are subject to the same motions (forces) as the stars in the clusters. The individual particles are moving outward away from each other by reason of the progression of the natural reference system. Coincidentally they are moving inward toward each other gravitationally, and also inward toward the center of the aggregate under the gravitational influence of the aggregate as a whole. In the central regions of this aggregate, the net motion is outward, but the gravitational effect on the outer particles increases with the radius of the sphere, and at some very large distance, the inward and outward motions reach equality. Beyond this distance, the net motion is inward. As in the star cluster, the result is an equilibrium between the inward motion of the outer particles and the outward motion of the inner particles.

While the end result of this process is an equilibrium, not a condensation, the action does not stop at this point. It was brought out in the preceding chapter that there is a continuous inflow of matter from the cosmic sector of the universe. This matter is dispersed throughout all of the space of the material sector, and the mass contained within the equilibrium system is therefore slowly increased. This strengthens the gravitational forces, and initiates a contraction of the aggregate. Once begun, the contraction is self-reinforcing and it continues at an accelerating rate. Meanwhile, some subsidiary concentrations of matter form within the aggregate, and since these leave increasing amounts of vacant space, the original aggregate separates into a large group of sub-aggregates. Eventually, the sub-aggregates become stars, and the aggregate as a whole becomes a globular cluster.

This initial phase of the aggregation process is unobservable, and cannot be verified directly. There is, however, an increasing amount of evidence indicating that very large dust clouds are being pulled into the Galaxy. A rather obvious explanation of these clouds (the only one that has appeared thus far) is that they are unconsolidated

globular clusters, aggregates of the kind that we have been discussing, that have been captured before they have had time to complete the condensation process.

Condensation of the aggregates that escape this fate should produce a large population of globular clusters scattered throughout inter-galactic space. This is another conclusion that cannot be verified observationally, as matters now stand, although individual clusters have been located as far out as 500,000 light years. But if the clusters are as plentiful as the foregoing conclusions would indicate, a substantial number of them should be in the process of being pulled in to the galaxies.

Here we come within the observational range, and we find full agreement. The number of globular clusters surrounding a galaxy is a function of the galactic mass, as would be expected if the clusters were originally distributed somewhat uniformly in the environment. There are a few clusters accompanying the small member of the Local Group located in Fornax, two dozen or more in the Large Magellanic Cloud, our own Milky Way galaxy has about 200, NGC 4594, the "Sombrero," is reported to have several hundred, while the number surrounding M 87, the giant of our neighborhood, is estimated at from one to two thousand. These numbers of clusters are definitely in the order of the galactic masses.

In all of the large galaxies, the clusters are located in symmetrical patterns similar to the distribution around our own galaxy, which is a roughly spherical distribution around the galactic center. These clusters do not participate, to any significant extent, in the rotation of the galaxy. Instead, as reported by Struve, they move "much as freely falling bodies attracted by the galactic center." This is just what they are, according to our new findings.

Even though all of the available information as to the nature and properties of the *clusters* is in agreement with this conclusion, it will be regarded by the astronomers as outrageous, because it conflicts with their current beliefs as to the ages of the *stars* of which the clusters are composed. The ironic feature of the situation is that the *astronomical* evidence of age is fully in accord with the conclusion of this present investigation that the stars of the globular clusters are the youngest of the observable stars. But the astronomers reject the observational evidence from their own field in order to accommodate their theories to an *assumption* that has been made by the physicists.

This crucial assumption concerns the nature of the process by which energy is generated in the stars. Although most of their assertions sound fully confident, the physicists do not claim that they actually *know* what this process is. When they want to be careful not to overstate their case, they say something like the following from an article entitled "The Energy of the Stars," by Robert E. Marshak, "So we can safely assume that the stars produce energy by the combination of light elements through the collisions of their swiftly moving nuclei." No matter how "safe" an assumption may be, it is still an assumption, not a fact, and it cannot legitimately be treated as an incontestable fact in the way in which the astronomers are now using it.

The assumption seems "safe" to the physicists only because they see no alternative at the moment. In itself, the assumption involves an extrapolation of the kind characterized by Bridgman as "perfectly hair-raising." Even in a day when hair-raising extrapolations are somewhat commonplace, this one sets some kind of a record. In view of the gigantic extrapolation that is required to pass from the relatively insignificant temperatures and pressures that we deal with on earth to the immensely greater magnitudes which we believe (also on the strength of extrapolation) exist in the stellar interiors, even the thought that the answers thus obtained *might* be correct calls for the exercise of no small amount of faith in the validity of theoretical procedures. Any contention that the extrapolated results constitute firm knowledge is simply preposterous.

Nevertheless, this "safe" assumption would certainly be acceptable on a tentative basis (the highest status that can legitimately be accorded to *any* assumption), in spite of its lack of tangible support, if it agreed with all of the relevant empirical information from astronomical sources. But the truth is that in almost all cases where a meaningful comparison can be made, this assumption *conflicts* with the astronomical observations.

One very significant point is that the physicists' process is not powerful enough to meet the astronomers' requirements. Even before the extremely energetic compact objects were discovered, leading astronomers were asserting that "a more powerful source of energy must be assumed" in order to account for the emission from the blue giant stars. The recent discoveries have exacerbated the problem, as many of the new objects are emitting energy at prodigious rates. With respect to one of these, Jastrow and Thompson make this comment:

Pound for pound, the Seyfert galaxy may be emitting as much as one hundred times more energy than our Galaxy. Even more so than in the case of M 82, this energy release seems difficult to explain in terms of nuclear reactions in stars."

If the energy of the stars is generated by the conversion of hydrogen to successively heavier elements in accordance with the physicists' hypothesis, the hot massive stars at the upper end of the main sequence must be young, inasmuch as their supply of hydrogen would quickly be exhausted at the present rate of energy output. But this conclusion that the most massive and energetic of all stars are young and short-lived is an inherently improbable hypothesis, and the astronomers recognize this, even though they are reluctant to implement their calls for a "radical revision of the laws of physics" by challenging this particular conclusion reached by the physicists. "It is no small matter to accept as proven the conclusion that some of our most conspicuous supergiants, like Rigel, were formed so very recently on the cosmic scale of time measurement," X Bart J. Bok tells us.

There are good reasons for the skepticism revealed in this statement. As Bok evidently realized, at least vaguely, the association of product with process is incongruous. No one is suggesting that ordinary stars are products of catastrophic processes. Even those who place the principal star formation in the early stages of a Big Bang universe envision the stars as being produced by condensation of dust clouds. Furthermore, the only dust clouds available for star formation in the current stage of the universe (if there ever were any earlier stages) are *cold* dust clouds. The initial product of condensation must therefore be a cool star.

This point is conceded by those who have undertaken to develop the details of the star formation process. These investigators realize that star formation is not a catastrophic process. Such processes are destructive. They may produce some new combinations of the previously existing basic units, but these are no more than fragments. The *general* effect of such a process is to disintegrate whatever structure or structures were involved in the event. Natural building processes, on the other hand, are slow and gradual. In star formation, the dust cloud must first pass through a stage in which it is some kind of a cool and diffuse "protostar," and then gradually evolve into a stage in which it has the characteristics of a normal star. The very nature of the production of a hot massive star from a cool dust cloud thus requires it to be a slow cumulative process extending over a long period of time.

The existence of a mass limit at which some or all stars undergo explosive processes also argues strongly against the hypothesis that the massive stars are young. A limit normally marks the end of a process, not the beginning. It implies the existence of a previous process of addition of the limited quantities, in this case, mass and temperature. All of the foregoing considerations point in the same direction. They all agree that the cool stars newly emerged from the protostar stage are young, and the hot massive stars, together with other classes of stars that have reached equilibrium states, are old.

The observed abundances of the heavier elements in the various classes of stars likewise support the finding that the present views as to the stellar age sequence are wrong. The present astronomical ideas based on the physicists' energy generation assumption lead to a situation in which old clusters of old stars are composed of young (that is, unevolved) matter. This is clearly another inherently improbable combination.

An ingenious theory has been devised by the astronomers to account for this strange state of affairs. On the basis of the physicists' hypothesis, the processes under way in the central regions of the stars are atom-building processes, and it is assumed that the build-up continues far enough to produce heavy elements, or "metals." According to the theory, these metals are ejected into the environment in the supernova explosions, enriching the metal content of the interstellar dust. It follows, so the theory goes, that the stars formed early in the history of the universe, those of the globular clusters, for example, were produced from matter of low metal content, whereas those formed more recently, such as the stars of the galactic arms, were produced from matter of relatively high metal content. Although this theory is the current orthodoxy, it is conceded that there are some embarrassing conflicts with observations. For example, Ivan R. King points out that

All the stars that we know, no matter how old, have some amount of heavy elements in them. Where did these heavy atoms come from?

Also, some globular clusters contain appreciable amounts of hot stars, a fact that is very disturbing to supporters of current theories. Struve, for instance, called the presence of these hot stars an "apparent defiance" of modern stellar evolutionary theory. The same problem arises from the presence of unevolved, and therefore presumably young, material in some clusters. Helen S. Hogg makes this comment in an article in the Encyclopedia Britannica:

Puzzling features in some globular clusters are dark lanes of nebulous material... it is difficult to explain the presence of distinct, separate masses of unformed material in old systems.

Of course, the conclusion reached in the present investigation, which finds the globular clusters to be young aggregates of young stars composed of young matter, has the inverse task of accounting for the presence of old stars in these young aggregates, but this is no problem, since the region of space in which the cluster condenses from dispersed material inevitably contains some of the old stars of the low speed components of the galactic explosion products, and these are gathered in during the condensation process.

Some recent observations of the stars of the central regions of the Galaxy offer a direct challenge to the prevailing belief as to the association of low metal content with age. For example, a 1975 review article reports measurements indicating that the "dominant stellar population in the nuclear bulges of the Galaxy and M31 consists of old metal-rich stars." As the author points out, this reverses previous ideas, the ideas that are set forth in the textbooks. The term "old metal-rich stars" is, in itself, a direct contradiction of current theory. Harwit comments on this situation as follows:

There also seems to exist abundant evidence that the stars, at least in our Galaxy and in M31, have an increasingly great metal abundance as the center of the galaxy is approached.

Any systematic change in composition "as the center of the galaxy is approached" favors the aggregation explanation of galaxy formation, which identifies the central regions as the oldest part of the galaxy. The increasing metal content is thus correlated with increasing age, as our findings indicate.

Observations that define the evolutionary pattern of the clusters produce some equally conclusive evidence, not only of the validity of the reversed age sequence, but also of the participation of the globular clusters in the aggregation, or cannibalism, process of galaxy building. Globular clusters closer to the galactic center are found to be smaller than those farther out. Studies indicate a difference of 30 percent between 10,000 and 25,000 parsecs. If the current explanation of the movement of the clusters in "elongated orbits" were correct, the present distance from the galactic center would have no significance, as a cluster could be anywhere in its orbit. The existence of a systematic difference between the closer and more distant clusters shows that the clusters are approaching the Galaxy, and are losing mass by reason of the differential gravitational effect as they approach. This confirms the conclusion that they are on the way to capture, and are not old features of the Galaxy, as viewed by present-day astronomical theory.

During the time that these clusters are moving toward the Galaxy there is a systematic increase in the metal content. "The farther a (globular) cluster star is from the center of the galaxy, the more deficient it seems to be in heavy elements," says Iben. Bok and Bok elaborate on this point:

There seem to be rather marked differences in chemical composition between the central group (of globular clusters) and the outlying clusters. The latter seem to be generally metal-poor in their spectra, whereas metallic lines do show up more prominently in the spectra of the clusters found close to the center of our Galaxy.

There is another class of star clusters in the Galaxy, much smaller than the globular clusters, and much more numerous, numbering as many as 40,000 by some estimates. They are much closer to the galactic plane than the globular clusters, and can be considered as being located in the Galaxy, rather than *around* it. These clusters, the *galactic*, or *open*, clusters, are expanding at measurable rates, and can therefore have only a relatively short life before their constituent stars merge with the general background population. It follows that there must be some process in operation that continually replenishes the supply.

The astronomers have been unable to find such a process. Like other members of the human race, they are reluctant to admit that they are baffled, so the general tendency at present is to assume that the open clusters must originate in the course of the star formation process that is believed to be taking place in dense galactic dust clouds. But this conclusion simply cannot stand up. If the cohesive forces in these clouds are strong enough to *form* a cluster, they are certainly strong enough to *Maintain* it. Those who do face the issue therefore recognize that current theory has no satisfactory answer to the problem. Bok and Bok, who discuss the question at some length, conclude that at least some classes of clusters are *not* being replaced. The most conspicuous clusters, the Pleiades, Hyades, etc., are disintegrating, and these authors say "there seem to be no others slated to take their place." Likewise they conclude that the "open clusters with stars of spectral type A and later... may be a vanishing species."

In the context of the new understanding of the place of the globular clusters in the evolutionary scheme described in this volume, there are no such difficulties. The globular clusters that are approaching from all directions will ultimately fall into the Galaxy, where they will be broken up into smaller units by the rotational forces. Bok and Bok concede that "one might be tempted to think about dismembered globular clusters as possible Pleiades-like clusters," but since this conflicts with the prevailing ideas about stellar evolution, they dismiss this "tempting" thought as impossible. The physicists' assumption as to the nature of the energy production process must be supported, whatever the cost.

As noted above, the open clusters are expanding at rates that are rapid enough to be measured. Here, then, is one of the rare places in astronomy where the direction of evolution can be unequivocally determined from direct observation. As the cluster ages, the density decreases because of the expansion. Studies have been made of the

cluster density, and it has been found that the average open cluster currently classified as "old" (example: M67) has a higher density, and is located higher above the galactic plane, than the average open cluster currently classified as "young" (example—the double cluster in Perseus). Because of the expansion effect, we can identify the clusters with the greater average density (the M67 type) as the younger, and those with the lower average density (the Perseus type) as the older. This is just the opposite of the present "official" view, which, as has been pointed out, rests entirely on a curiously unquestioning faith in the currently popular theory of the stellar energy generation process. Current astronomical theory regards all, or at least most, of these open clusters as having originated in the spiral arms. The present locations of the M67 class, well away from the assumed place of origin therefore pose a problem. The following is an example of the kind of "explanation" that is currently being offered for this anomaly:

Older (open) clusters, whose Main Sequence does not reach to the blue stars, show no correlation with spiral arms because in the intervening years their motions have carried them far from their place of birth.

These star clusters are not where we would expect to find them, on the basis of the accepted theory of their origin, so it is simply assumed that they must have moved. A systematic motion of an entire class of objects against the gravitational force gradient, and not in the direction of the rotational forces—a most improbable happening—is casually offered as something that we can accept without any question. Even in the absence of the definite identification of the direction of evolution provided by the relative densities of the expanding clusters, it should have been evident that the lack of "correlation with the spiral arms" is a contradiction of accepted views that cannot be resolved by an unsubstantiated assumption.

Our new findings as to the relative ages of the two classes of open clusters are in agreement with the conclusions previously reached as to the relation of metal content to age, and as to the origin of the open clusters from globular clusters that fall into the Galaxy. M 67, now seen to be one of the youngest of these clusters, is one of the highest above the galactic plane, indicating that it is still falling, as would be expected if it is a fragment of a comparatively recent arrival. Furthermore, the H-R diagram of this cluster, which indicates its stellar composition, is almost identical with that of a late type globular cluster, such as M 13, whereas the stars of the open clusters that are now seen to be older, are mainly main sequence stars, comparable to the general population in their environment.

There is now a consistent evolutionary pattern all the way from the most remote globular cluster to the most advanced open cluster, a pattern that fits in comfortably with the concept of continuous galactic aggregation that is required by our findings, and is gradually making its way into astronomical thought as more and more evidence of cannibalism is accumulated. The most distant globular clusters that are observed are relatively large, and have a very small content of heavy elements (as little as 0.1 percent of the solar abundance, according to some estimates). As the clusters are pulled slowly in toward the Galaxy gravitationally, the atom-building processes that are under way in all matter increase the proportion of heavy elements, while at the same time the differential gravitational effects reduce the cluster mass. A more mature cluster in the immediate vicinity of the Galaxy is thus smaller, but has increased its metal content to a substantial fraction of the solar abundance.

Disruption of the cluster on entry into the galactic disk does not alter the composition, and the clusters of the M67 type therefore have essentially the same metal abundances as the late type globular clusters. As the open clusters age, the metal abundance continues to increase, and the oldest of these clusters reach levels comparable to those of the general field stars in the environment. As indicated earlier, this is not the end of the atom-building process. The still older stars in the central regions of the Galaxy have a still greater metal content.

The factual information thus far available does not define the nature of the process by which the heavier elements are built up, except that it requires this process to be one that operates continuously throughout the existence of matter in the material sector. This rules out processes such as the currently favored high temperature reactions in the central regions of the stars, and it suggests some kind of a capture process. Neutrons are readily absorbed under almost any conditions, and may play the dominant role. For present purposes, however, all that we need to know is that such a process exists, a fact that is demonstrated by the observed results.

The information presented in the foregoing pages should be more than sufficient to show that the conclusion as to the nature of the aggregation process from sub-atomic particle to giant galaxy that has been derived from factual premises is fully in accord with the relevant *facts* disclosed by astronomical observation, even though it conflicts with some of the *beliefs* that currently prevail in astronomical circles. The reciprocal relation between space and time then assures us that the same kind of an aggregation process is taking place in the cosmic sector of the universe. The large-scale action of the universe can thus be summarized in this manner:

Location	Process	Final State
3-dimensional space	aggregation	concentrated in space
Intermediate region	ejection	dispersed in time
3-dimensional time	aggregation	concentrated in time
Intermediate region	ejection	dispersed in space

Here in a nutshell is the cosmological understanding at which we arrive by developing the necessary consequences of the new factual information uncovered in the course of the scalar motion investigation. These results show that the large-scale action of the universe is *cyclic*. The final products of the major aggregation processes of the material sector are ejected, pass through the intermediate, or transition, zone, and enter the cosmic sector, where they become the primitive entities of that sector. The final products of the major aggregation processes of the cosmic sector are similarly ejected back into the material sector, and become the primitive entities of that sector.

This is a steady state universe, but unlike the universe contemplated by the theory that goes by that name, it faces no problem in obtaining its raw material, or in disposing of its end products. The raw material does not have to be created in defiance of the conservation laws. It is continually being supplied from the inverse sector, and that sector is constantly available to receive the processed material.. The new understanding thus retains the desirable characteristics of the Steady State theory without its disadvantages. At the same time, it provides the key feature of the Big Bang theory, an explanation of the recession of the distant galaxies, and does so directly from the inherent nature of scalar motion, eliminating the need for any implausible ad hoc assumption such as the Big Bang.

We do not have the option of accepting or rejecting physical facts, or the necessary and unavoidable consequences thereof, as we do conclusions based on theories or assumptions. It is therefore superfluous to present a “case in favor” of the factual understanding that has just been derived, but the redundancy involved in so doing appears to be worthwhile as a means of emphasizing the difference between the results of a factual development and those of theories based on speculative assumptions. The points in favor of this new understanding can be summarized as follows:

1. *There is nothing ad hoc in this understanding, nor does it depend in any way on theoretical premises. All conclusions have been derived from established facts and their necessary consequences.*

2. *All of the points listed in favor of either of the two current theories are equally applicable to the understanding described herein.*
3. *None of the points listed as objections to either of these current theories is applicable to this new understanding.*

Some comment probably needs to be made concerning item number 3 in the list of objections to the Big Bang theory, which involves *postulating* phenomena on a scale immensely greater than anything now known. It may perhaps be argued that the new understanding is doing the same thing in asserting the existence of speeds much greater than that of light. The answer to this is that this extension of the speed limit is not an assumption. It comes from a newly discovered fact: the existence of scalar motion in three dimensions. Since it is already known that speeds approaching the speed of light can be attained in the one scalar dimension capable of representation in the conventional spatial reference system, the factual finding that motion can take place in three such dimensions automatically raises the limiting magnitude of the total speed to three times the speed of light.

It is particularly significant that this new understanding is not subject to item number 5 in the list of objections to the Big Bang theory. It is a broad-based set of established facts, and consequences thereof, that leads to many conclusions in many fields of science, as indicated in the preceding pages of this volume. The broad scope of these findings unites cosmology not only with astronomy, but also with physics, and provides a host of opportunities for correlation with reliable data from observation.

Turning now to the objections that can be raised against the new understanding, we find the following:

1. *This understanding is new and unfamiliar.*
2. *It applies only to the physical universe, not necessarily to all existence.*
3. *It does not explain the origin and eventual fate of the universe. The first of these objections can be overcome in time. Whether or not it will be possible to extend our investigations into the areas to which the other two items refer is not indicated by the facts developed in the scalar motion study. Invalidation of the view of space and time as a container for all that exists leaves open the possibility that there may be existences other than the physical universe, but the facts developed herein have relevance only to that universe.*

The more that has been learned about the physical universe, the more evident it has become that we are learning only what it *is* and what it *does*. There is nothing in this information to give us any clue as to how it originated, or, indeed, whether it had an origin. As it appears in the light of the findings of the scalar motion investigation, the physical universe is an existing, self-contained, and self-perpetuating mechanism. Perhaps it was created. Perhaps it may eventually be destroyed. But creation, if it took place, must have been accomplished by agencies outside the physical universe itself (as the advocates of creation contend). Likewise there can be no destruction unless some outside agency intervenes. In the absence of such intervention, the physical universe will continue operating indefinitely, without any significant change in its large-scale aspects.^{*25}

"What is the purpose of life? The purpose of life is to seek the purpose of life. In doing so, you acknowledge that life must have a purpose, even if you are not so sure what it is. You open your mind to the possibility that you have something to learn and, in the very act of doing so, you start to become wiser; more able to discriminate between pretence and reality, falsehood and truth." —*Jonathan Cainer*



GARY@GARYMCCOY.ORG

ABOVE: THE FLYING MCCOYS COMIC — 'AN EXAMPLE OF WHAT HAPPENS WHEN A CYCLE PEAKS AND REVERSES BACK INTO DECLINE'. *26

"When you step on the brakes, your life is in your foot's hands." —George Carlin

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God

The *All* that *IS*.

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