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TIME MATTER GRAVITY ENGINE

by
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Our Universe sits before us, in waiting, as if to say “here I am!” “Bold, magnificent, arms open and nothing to hide.” “You are here for my discovery.” “Come to me and you will find what you are looking for.” “Within me you will find the answers to your origin, you will find that you are not alone, you will find the answer to eternity and you will finally know the reason for your existence.” The attraction and allurements are unbearable to those who seek and difficult to tolerate for us who, must wait. However, it is merely a ruse. A sheep in wolves clothing. You see, the mysteries which lie within us must be conquered, first. As we begin to understand ourselves the Universe will also begin to unfold itself before us.

Ready or not; 03/17/02

Are we ready to go out into the Universe? Are we ready to go out into “our” Universe? Is the Universe Ours to go out, into? Perhaps there is a reason for our planets' isolation on the extreme fringes of our galaxy? In relation to the rest of our Galactic neighborhood we are not at all “where it's happening.” We were not even dropped into an area which would allow us a modest chance to access those lights that we see in the night sky. We are inconveniently seated at the fringes of the rest of our reality. It's as if someone was saying, “look but don't touch.” Or, “you can have it but you'll have to earn it.” Do you believe in chance or do you believe in Devine Order? Either way, it's damn inconvenient!

As they say in real estate, “location, location, location.” Given those terms one can only admit that our piece of property (Earth), has a very low resale value. On the other hand it could be that we are sitting on a very valuable piece of property and we are being isolated from a very bad neighborhood. Actually, I believe both of the above.

First of all lets' examine our piece of galactic real estate. As we begin to unfold the mysteries of our recent past and our neighborhood, we are beginning to find out that our own planet has been the victim of some very unpleasant experiences. The experiences that I am referring to are those of comets, meteors and other collisions. Those cataclysmic events are not restricted to our planet, alone. There is evidence of these impacts throughout our solar system and that evidence can be measured with no doubt about its' consistency or frequency. The occurrence of these impacts began long before the advent of human kind and will continue long after we are gone. As much as we fear these events, strangely enough, we owe our lives to them. While these impacts might destroy life it must also be said that they have served to create and form this very planet upon which we live. Never the less, none of us has the desire to be on the receiving end of one of those cosmic events. And, the details would be too morbid to expound upon. It should be noted that, despite the fact that we are located in an area of our galaxy which appears to be devoid of large amounts of cosmic interaction, we are still pummeled by a vast amount of material. If this kind of event occurs with such frequency, in an area of our galaxy which is far less subject to large amounts of interacting mass, then what would be the consequences for living on a planet which would be located in an area which was much closer to the hub of our galaxy?

As we travel from the fringes of our galaxy, towards the center, the field of mass/density increases.

It is only reasonable to assume that the interaction of mass would increase as we travel towards the hub. Do you think that this is an environment which is conducive to the evolution of life?

The distances are staggering! Given our current knowledge of physics it would be unthinkable to bridge these distances within the span of an individual's lifetime. Even if we were able to develop a biosphere which possessed a propulsion system that could attain speeds which were greater than the speed of light the effort of intergalactic travel would be an exercise in futility. The entire equation becomes subject to the event of linear time. Let's examine one given example of this dilemma.

Let us suppose that we have the technology which enables us to travel at speeds which are ten times greater than that of light. Given our present location, within our galaxy and our ability to travel to systems which we have determined to possibly sustain life, it would still require us to expend hundreds of years to explore even a small number of those star systems. Would you embark upon such a mission? I would not! The reasoning behind such a decision is simply because this kind of reasoning would prove to be irrational. Considering the progression of our technological evolution one can easily surmise that by the time that I will have reached my second or third star system mankind will have devised a system of galactic travel which would be far more expedient, reliable and convenient than that of my current mode of travel. Give some serious thought to this dilemma and you will come up with some interesting questions, of your own. How will we know when we are ready to travel to the stars? Should we wait until we are no longer dependant upon any type of material or physical modes of transportation? Given the fact that no one is able to see into the future who will be the one(s) to make these decisions?

Another problem, physically speaking, is that of navigation. Not referring to the navigation between star systems but the navigational problems that one would encounter while trying to avoid the inadvertent collisions with foreign objects, between systems. Imagine what would occur upon impacting even the smallest particles of space debris? Not a minor distraction! The list of obstacles goes on and on.

Not to worry. We will overcome those problems which confront our limited perspective of today's known physics. At this time we are governed by but not limited to our current resolve of how our universe operates. Literally speaking, we limit ourselves. We will progress as we become ready.

It is amazing and frightening to live in such a time, as our history unfolds. Amazing, because of all that has been given to us and frightening, because of all the unbridled technology which we have unwittingly unleashed. All of us have embraced the comforts of our evolving technology but no one can predict where it is all going. And how have we, as human beings, really changed?

For those of you who are living today just try to imagine what it would be like if you were able to go backwards, in time and live with those individuals who occupied our planet during the early 1900's. With all of the knowledge that you currently possess you would be considered as a visionary, an oddity, a scientist or a lunatic. In any case it would be difficult to imagine how you would be received if you were given the opportunity to give a lecture on events which were to unfold within the next hundred years. All right; You have been granted this rare opportunity. Gathered together, in a large hall, are all of the greatest minds of the early twentieth, century and you are the speaker. The floor is yours. You begin to expound upon all of the technological marvels which are about to unfold within their near future. The advent of larger and faster ocean liners, the first automobiles, machines that will fly, medicines that will prevent and cure most of the maladies and ailments of those times and you will probably be received by many nods and smiles. As you progress, into your speech, about supersonic flight, atomic bombs and heart transplants the nods and smiles will be replaced by looks of disbelief. As you press on to tell them about space shuttles, home computers and the internet you will undoubtedly start to notice that most of your audience has physically departed or are in the process of making their exit. The remaining individuals are totally lost. They have absolutely no idea where you have gone or just where it was that they got dropped off.

Logic dictates that the same would hold true if our present culture were confronted by someone from our own future. We would be aghast and confounded by the outcome of the course of events, of which, we are currently creating. Using the same course of logic it would be unreasonable to believe that we will be traveling to the stars by any mode of transportation which could be presently conjured up. When we do look back upon current ideas that we propose for our mode of space travel those ideas will be looked upon as ridiculous and absurd, to put it mildly. In the same breath it must be noted that the course of evolution demands that we remain tenacious and prolific in our development of new ideas, no matter how absurd, if we are to arrive in our future and progress in a manner which will allow our society to grow along with our technology. The sociological growth of our culture, as a whole, must parallel our technological advancements or we are doomed to failure. Too much, too soon and we will implode. Too little, too late and the result will be the same. We must progress on an even keel, maintaining a spiritual, an emotional and intellectual balance. But, is this possible?

Our species is anything but even tempered. From our beginnings we have proven that we are quite capable of resolving issues by means of extermination. Throughout our history we have consistently improved upon our abilities to devise weapons with which to kill one another. Today, it has developed into a large industry. One can easily debate the need for all of these weapons but in the end one will arrive at the conclusion that this insane proliferation all extends from the roots of fear which permeates our culture. Should we be allowed to go out into the universe to spread this fear? At this point in time, technology allowing, this is exactly what would happen. Many of our science fiction movies and books are based around the premise of aliens invading “us poor, defenseless human beings” and our plight to defend ourselves from “those evil creatures.” I say “God help those poor, evil creatures,” if the opposite were to occur! When it comes down to the acquisition of real estate we have always been takers, not givers.

It is also true that the Human Race is quite capable of expressing great acts of selflessness and love. We are beings who thrive on the need for a belief in something which is greater than ourselves. That something goes by the name of God. We have this belief because we are capable of introspection and we realize our inadequacies and mortality. We realize that, as individuals, we want to do good. We all have that need to love and to be loved. All of us want peace, prosperity and happiness to fill our lives but we are also faced with the reality that this is not the kind of world that we were born, into. Rather, we were born into a world between two extremes and somewhere in between we manage to live, through it, in our dreams, hopes and desires of all that could be but, isn't. God sees this.....yes, he does.

So, where does this leave us? Are we ready to go out into the Universe? Is it our Universe to explore? You better believe it! The universe which we are beginning to explore is anything but tame. It is a universe of great wonder, diversity and beauty. It is also a universe of tremendous extremes and violence. Kind of.....like us, wouldn't you say?

Generational stagnation; 12/08/01

Of all the problems that lay in our path this is the largest! There are so many dimensions to this problem that it would be next to impossible to devise any logical resolutions to this dilemma. Should we choose to do nothing and leave it to some miracle of fate to solve this issue we will see our future unravel before our eyes. Yet, if we are to continue to survive, we will have no choice but to address this logical conclusion of our future.

Here is the challenge; Our lives are short and our world is becoming more and more complex. Gone are the days when knowledge was passed on, from generation to generation, merely as a matter of survival. No longer is it possible to get through life just by knowing “the basics.” Accumulatively, life is changing at a rate which is so rapid that it is numbing to the senses. No sooner do you start to feel as if you are beginning to get a grasp on life and everything starts to move in a different direction. Everyone is aware of this fact but who knows what to do about it? Our rapid advances in technology are bringing about welcome and unwelcome changes and all of us are caught up in this whirlwind whether we like it, or not. Another problem that we must deal with is that we are also adapting to the technology that is supporting us. It is one thing to be able to adapt to some type of technology which will make our lives easier (or so we think) but it is quite another matter to adapt when that provision is taken away. Our new technology also challenges the way in which we observe our world.

As information becomes more available we are no longer restrained by the limitations of knowledge which is passed down to us by our parents, our educational systems, our libraries, our friends and other people with whom we associate. Everyday there are new developments in technology and it is only logical to assume that we should have access to these changes. It is important to keep up with all of this. Or, is it? If you are to remain in the workplace you better believe it! If you are running a business and, you want to stay afloat, you better believe it! If you hope to make a living, in this society, you better believe it! If you want to exist, in this society, you better believe it! Is it possible to keep up with these kinds' of demands? I, don't believe it.

Fifty years ago seeking out the help of a psychologist was not the kind of thought that came to mind as an immediate response to everyday problems. Today, pursuing the assistance of a psychologist is as common as stopping at a “fast food restaurant.” If the problem is not resolved by the psychologist there is always “My Doctor.” The Doctor can refer you to “The Psychiatrist” but if the problem isn't too bad there has got to be some kind of “new drug” that will solve your “new problem.” Currently, the number of drugs which exist, that claim to solve the problems between the ears, must number in the hundreds. Why? Could it be that we have always needed these drugs; how could we have ever gotten by without them? Or, is it a matter of cause and effect? Either way, something is brewing and I don't believe it's good.

With all of this fantastic, technological evolution have we observed any profound evolution in the psychological and emotional development of our children, aside from their toys? How about their moral foundation? How about the moral foundation of our adults? Has the expediency of our society allowed for the expedient divorce? Is this good for our children? What are we teaching our children? “Come to think of it.....maybe we should both see a psychologist to see if we can't keep our marriage, together.” What in the hell are we doing? What has brought about this sudden change in our society? You know, as well as I do, that these new developments in our society are only the tip of the iceberg and that they are a direct result of stress, caused by the relentless pressure (s) of rapid change. As our technology advances these pressures will compound. There is nothing that we can do to turn back the hands of time. Accumulatively, we have created this problem for ourselves. Individually, we are all swept away, by it. Sadly enough, this is where my premise begins.

It would be wonderful to believe that mankind has the ability to adapt to anything and everything. And, I do believe that this would be a true statement if we were given “the time,” to do so. Unfortunately, we have all allowed ourselves to become slaves to the dictates of our own technological advancements and that includes the rapid pace at which this all occurs. Time, (the relentless clock which governs our existence), is killing us.

Our time, on this planet, is extremely short. From the moment that we are born, to the moment that our existence comes to an end, the clock endures. Even if we are lucky enough to cheat the hands of time for a hundred years, it is only for a short duration of those years that we will be able to operate at the peak of our physical and mental capacity. After our birth we consume much of our valuable time gathering data about our surroundings and how to cope with that data as related to the necessities of our survival. Soon after we start to develop social skills and other input as we begin to integrate into our surroundings. This process goes on for some time before we even begin to ask ourselves the critical questions about our existence. Before we have enough information to form our independent opinions about the meaning of our lives and how we choose to live our lives, much of our valuable time has been spent on the gathering of simple data. During the latter years we observe our bodies as we start to decay and most of our time becomes preoccupied with just trying to keep it all together. What a small window of opportunity, we have, between those two extremes. During that “window of opportunity” how many of us actually take the time to change things.....change the direction in which our lives are going? Or, do we dedicate that time to adapting to the dictates of that period in which we currently exist? I believe the latter.

My questions are these; can we keep up with the extreme changes of the technological achievements which we have subjected ourselves to and, is it possible that our technology will become so advanced, that it will be beyond the capacity of future generations, to be able to unravel its' beginnings? If we continue as we have and, give no pause for thought, this course of action may be inevitable. There are many benefits that accompany the achievements of technological advancements. And, while we are enjoying all of the good that may come from those benefits we may well be advised of the entrapments that may come as a result of our conquest of knowledge.

Not many years ago, many people believed that all of our computerized systems were about to crash as a result of these systems not being able to recognize its' own program data (The Millennium Scare). Do you still remember those moments?

Of course you do but now it seems rather trivial. This is only because we no longer have to deal with the problem. At the time this was all happening we were busy analyzing the whole situation and attempting to reprogram old systems, data bases and hardware. However, let us not forget about the original problem! “What would happen if we were forced to live without those computer systems that we have come to rely on?” Originally, this was the focus of the scare. Now it is no longer of any concern because we have taken care of the problem and if it ever happens again we have proven that we can handle the situation. Wrong!! Let us not forget that this problem was resolved as a direct result of many skilled men and women who had a thorough understanding of how these systems operated. We also had sufficient time to address the situation before the onset of the problem. Even as I write this book these systems have undergone a tremendous amount of change and more mind boggling advances are about to take place. During the course of the next ten years one could only take “their best guess” as to how these systems will evolve.

Aside from budgetary demands and restraints, the future of our automated systems will be dictated only by the limitation of our visions. As these systems become more complex so does our dependency, upon them. The point of no return has, long since, gone. It is not possible to ditch the whole package and start over, again. Unless we go forward and develop something better we are stuck with the system that have been created. It has been integrated into our lives. Our air/ground traffic systems, all of our communications systems, our military and banking systems.....each and every part of our everyday lives are totally dependant upon automated computers. Get used to it. It's here to stay. Mind you, I am not complaining! I rather enjoy it all. It has made my life easier. I, too am an addict. But, let me be the one who sits on your shoulder and whispers, “It could be a trap!” A trap from which there is no escape. Our technological achievements have endowed us with a, sort of, arrogance that makes us believe that we are capable of anything. At this point, in our time, we must also take a moment to reflect upon our history and let it remind us of our shortcomings. All of our “greatest empires” have been destroyed as a result of our arrogance, due to an over-inflated view, of our ability to achieve or to conquer the unknown. Go ahead and boil it down and you will eventually come to the same conclusion. It is not a matter of our “determination,” rather than, it is a question of our ability (as a society) to mature in a fashion which is parallel with, our achievements. 10

Are we are ready (as individuals) for the changes that we are presenting to the whole, of society? If not, then it is impossible to move forward without the threat of self destruction.

As our technology marches forward and as our ability to create better systems increases it also becomes necessary to increase our educational standards for those individuals who would bring these new developments into our reality. Because of the vast amounts of ever increasing knowledge it has become necessary for these individuals to become highly specialized in every area of development. This is where our problems only begins.

At the most fundamental level it is my belief that our current educational systems will not be able to produce either the necessary standards of education needed to endure such a technological onslaught nor is there any incentive for highly educated thinkers, teachers or students to peruse such rigorous demands. There are too many career paths which demand much less, of a human being and provide greater returns for their efforts. As I have mentioned, we have not even begun to address this problem and when we are finally forced into some kind of action to alleviate these concerns it may already be too late. This is not the kind of "last minute problem" that one can throw money, at. As the standards of our educational systems decline the demands of our growing technology are, just about, increasing at a rate which is inversely proportional. If we want to avoid a head on collision, with this problem (a technological implosion), we must act now.

Another concern, which has not yet come to its' fruition, is our ability to draw on stored technology when this data is needed. Much of our data for the construction of hardware and programs has already been developed and refined to such a point that it is readily useable when it is needed to facilitate the construction of some higher assembly. Just as the hand-held-computer has eliminated the need to perform many simple and advanced calculations, instead of using the process of thinking, so might it become possible that this same event take place as a need develops to resolve technological dilemmas in a timely fashion. Unfortunately, this also eliminates the need to have "the whole picture." This is already happening and as our database of stored knowledge continues to increase there may come a time when each successive generation will not live long enough to absorb the processes by which our technology is constructed or maintained.

You might think that this is a ridiculous notion but let me ask you this, “how many of you are able to use an abacus or a slide rule?” The typical answer to this would be, “well, there is no longer any need to understand how these devices operate.” “We now have calculators which are faster and easier to use.” And you would be right. But, the down side to this is that we have shifted our dependency and eliminated the use of our minds. This is typically human and I have faith in the “human condition.” Just take a good look at the direction in which our society is heading. All of our needs are based upon immediate gratification, with no concern for how, who, what, where and why all of these things are possible? Even our rapidly advancing technology is having a difficult time satiating these demands. These demands are taking place as result of our need to accomplish more without going through the entire process of thinking from conception to integration. Each generation will make it easier, for the next, to think less and accomplish more. Hence, the propensity towards intellectual lethargy is perpetuated.

As our technology and society progresses (I use the word “progress” with some apprehension), the gap between the technocrats and the average person will grow ever larger. This disparity will not occur at an alarming rate because of specialization. The needs of our corporations will see to it. Their concerns are not dictated by the intellectual growth of any individual but by the cumulative results, of many individuals to produce the “end item,” which can be translated into revenue. Results, is the key word here and there is no room for the creative thinker. “If we want a creative thinker we will hire one.” “We hired you to do a job and that is exactly what we expect of you.” “Nothing more, nothing less,” says' Big Business. How can anyone argue with this mandate? The individuals who are given charge of any business must see to it that a profit is maintained or the business will cease to exist. This, too is leading our society to respond by creating more highly specialized individuals (who will be rewarded), while frustrating the development of ingenuity. I'm not suggesting that ingenuity and creativity will become extinct but I am suggesting that these thinkers/technocrats will become fewer because it will not be encouraged. Also fueling this is the ever increasing cost of higher education. And, what is education? Unless you are seeking a degree within the sciences (mathematics, physics, programming, chemical, electronic engineering, etc.), what can you accomplish with your degree? Anymore, what can you do with an undergraduate degree.....especially in the sciences? 12

If one seeks to attain a totality, of gained information within the environment of higher education, it has become mandatory for an individual to seek a graduate degree. Today, an undergraduate degree barely gives you enough information to make yourself marketable. And that is no guarantee. Rather than spending the fifty or sixty grand (cheap education, nowadays'), for an undergraduate degree your returns would be greater if you were to attend a technical college. People are beginning to realize this and it is my contention that the time is not far off when we will begin to realize that the pursuit of a "higher education" will demand more commitment (financially) and with greater focus, than ever before. As a result we will experience diminishing returns for a society that demands more (work) but expects less (thinking), of its' individuals.

Has anyone taken notice of how technology has invaded our school system? Just about every school is demanding an increase in federal funding to insure that their physical needs are satiated. Most schools are willing to spend the money for a large football stadium, a baseball field, a practice field, a swimming pool, a basketball and volleyball court. Now, our schools are in full swing with the whole idea of integrating computers into their curriculum and the expenses continue to grow. I'll skip all the trivia and ask you the one, most important, of all questions; "Why are we not spending these humongous sums of money on acquiring qualified teachers?" Why are we allocating these huge budgets to buying more "things" instead of increasing the salaries of our educators? Are these "things" going to educate our children? What ever happened to the basic idea of a good teacher, a student, books, pencil, paper and a desk? The truly great thinkers of all time seemed to have very little problem utilizing these basic tools.

Are you trying to tell me that our children are now well beyond these simple needs? Today, their are children who are being shoved through our educational systems and after twelve years, barely possess the necessary skills to read and write. Sure, we need our stadiums. Sure, we need to teach our children about our computers. But first and above all else, they need an education. This can only be accomplished by the interaction of a "turned on" teacher with the open mind of a child. There's nothing better!

My last example is much more vague but very evident if you simply open your eyes and take a good look, around. The next time that you walk through a mall, an airport or some other concentration of humanity take a good, long look into the eyes of our teenage children. Take the time to talk with them. They are good kids, you know! But, take a real good look into their eyes. Do you see excitement, wonder, happiness, contentment and naivety? Or do you see a detached, glazed-over kind of look? Do you think that they are being forced into growing up too fast? What happens to a child when you take a part of their childhood away? Are they becoming overwhelmed by too much information without the balance of substance? They are good kids, yaknow. What kind of legacy are we leaving them? Who is taking the time to teach them about such concepts as loyalty, obligation, dignity and honor? How can we possibly give them something which we, ourselves, are slowly loosing? What kind of hope, for a wonderful life, are we giving them? What kind of an example are we giving them? We call ourselves an advanced society yet we barely have enough time to share ourselves with our most valuable asset.....our children! If we cannot give our children our time, share our lives with them, let them know that they are important to us.....give them our love, what kind of lives can we expect for them? Is all this technology, that we have provided them, replacing what we cannot give to them? Is all this technological advancement bringing us closer, together? Will it replace our humanity? Would it be better if we are able to provide anything and everything, all the security that technological advancement can bring to our children, at the expense of the time that we could be sharing with them? What can replace the reassuring touch of the hand, the security of a hug and the glee of a smile? What can we give to our children that will give meaning to their lives? A good college education? Sound knowledge? Money?? We can let them know that they are better than who they think they are? That they can achieve great things as long as they set their sights high? "Look to the future." "You can achieve what the mind conceives!?" "You are what you believe yourself to be?" All this crap (psycho babble) sounds so damn good. Has anyone ever stopped to think about how, all this, sounds to a child? Has anyone stopped to think about the foundation that a child needs before he/she can accept this kind of knowledge? How can all this knowledge become accessible without the confidence to accept it?

What kind of confidence are you giving to your child? “Daddy is a big corporate executive and, someday, you can be one, too!” And, “one day you may grow up to be just like Daddy and spend less time with your children, also.” This is a good thing? This is advancement? This is what life is all about? There is nothing wrong with having the aspirations of being a corporate executive.

This is an admirable goal as long as this desire lies within yourself and is not born of the guilt or the expectations which have been impressed, upon you.

If we are to continue on this path of technological advancement we must also seek a firm foundation for our values and the constructs which govern our humanity. Technology is merely a tool which is supposed to make our lives easier. Is this the case or are we on a path of a technological runaway? Are we in charge of our tools or are these tools beginning to take charge of us? Do you rush to answer a ringing phone? Do you have an answering machine, a microwave, a VCR (now DVD), a cell phone or a Personal Computer? Have you tried to understand all of the functions that are available on your VCR/DVD, cell phone or Personal Computer? Do you even possess the basic operational knowledge of these devices? Do you care to know? Probably not.

You take it for granted that all these devices will always be available. But, take all of these devices, put them away for just one week and I can just about guarantee the kind of withdrawals that you will go through. You can walk through a million houses and every one of them will be equipped with a television set. People will purchase houses upwards of two hundred thousand dollars, along with groups of furniture also costing thousands and they will arrange all of these goods in a pattern which is focused around that damned TV set!! Ask yourself, “am I a technology addict?” You will then pursue a pattern of denial to justify this silly concept. The TV set, VCR/DVD, cell phone and Personal Computer are only small examples of the true nature of our problem. The programming and hardware that enable all of these devices are, by far, more complex and they have become the foundation on which our society now functions. Basically, all of this began about fifty years ago. Can you begin to imagine how all of this technology will evolve in the next fifty years? Do you care to know? Probably not.

It can't be changed? 12/17/01

WE NEED A REVOLUTION!!

Are you happy with the lot that has been handed down, to you? Do you feel swept away by this crazy world? Do you believe that you are too small and insignificant to do anything about this world in which you were born? Are you satisfied with that thought? Do you accept everything that you are told, to be the truth? When you read something, that is in print, do you believe that it is " the truth?" Well, I've got some news for you!! (1) You should not be happy with everything that is thrown your way! (2) This is a crazy world and if you don't feel swept away, by it, then you are probably clueless. (3) You are living in a world which worships monetary gain. Values such as morality, principle, caring and doing what is right have ended up on the bottom of the "top ten list." How could anyone feel anything but small and insignificant? (4) If you are satisfied with this kind of existence you would be well advised to find yourself some sort of escape (today, many people use drugs), because you're going to need it! (5) If you believe everything that you are told then you will never have a chance of becoming an individual. (6) When words are printed, in ink, it proves nothing. It only means that you are able to read.

The revolution that I am talking about is not based upon violence. It will become "The Revolution Of The Twenty First Century" and you (our young people), will be the ones who will lead the way. What kind a of revolution am I talking about? How can it change this world? "What can I possibly do to make a difference?" "How can it be that I hold the key to any kind of change?" "THE KEY," that you hold, works like this.....QUESTION EVERYTHING!!!

Right or wrong everything that we do and say, begins as the result of a thought. The thoughts of every one of us are directly responsible for this world which we have built. Aside from the natural forces of our universe we are responsible for the reality that we have created. The roads and buildings that we have constructed, the means of transportation that we have designed, the clothes that we wear, the music that we listen to and even the crap that we see on television are all the results of someone's thoughts. Everything that we have fashioned and all that we have ever accomplished or have destroyed are the direct results of what goes on between someone's ears. Silly, isn't it?! Yet, this is an inescapable fact. It is a thought that can be both wondrous and sickening.

All of our wonderful creations are too numerous to count; our artistic and technological achievements, our ability to give and to help those that are in need, our medical advancements and our discoveries about the workings of the human mind are all positive accomplishments. But, let us also give pause to remind ourselves of all the mindless, destructive patterns of violence that we have unleashed throughout our history. All of the wars that we have fought. All of the senseless killing and other evils that have been perpetrated, by mankind. We choose to turn our backs away from this past and, all along, we try to remind ourselves that these were the deeds of "someone else." And, so it goes on from one generation to another.

Mankind does not need a greater ability to create new and wonderful things or to increase our motivation for doing so. This innate desire seems to be implanted within the human psyche. Neither is there a necessity to rewrite the Ten Commandments, question the difference between what is good and evil or right and wrong. What we need to do is examine our shortcomings, as a society and to institute a different process in the way that we think and the way in which we deal with our problems. We can start this process by asking ourselves some questions.

As an example I would like to start with a common cliché. It is an accepted cliché and one that has become imbedded in every conscience and unconscious mind; "Violence has never been the solution to any problem." This is a very sweet cliché and it sounds so good. How could anyone possibly disagree with such a formidable statement? It sounds so right. Everyone that has an ounce of humanity within them has got to agree with this statement. We have all come to agree that this is a worth while statement when, in fact, it has no basis in reality. Just about every major conflict, that has been perpetrated by man, has been solved by the use of violence. Within the last century there have been two World Wars, The Korean War, The Arab Israeli War, Vietnam (The Killing Fields), Desert Storm and other physical conflicts in China, The Mid East, South America and who can remember all the (so called), smaller conflagrations when someone wasn't pounding the piss out of, the other?! This does not include the random acts of violence and all of the homicides. Would anyone care to start summarizing all of our Wars since the beginning of written history?

You would be shocked! And, still we say, “violence never solves, anything.” You see.....when it comes to Humankind.....we like to believe one thing when, in fact, we are frequently engaged in doing quite the opposite. If we have created anything, it is the ability to lie to ourselves. And, we have become good at it! We are professionals.

Another good example of this phenomenon is reflected by the movies that do extremely well at the box office. How many movies have you viewed that were actually a true reflection of anything that you have encountered during the course of your lives? How many movies have you seen, which were based on some actual event, were not skewed or manipulated for the sake of ratings? If you can even remember the name of one such movie I will also be able to tell you that very few people have seen it. Why is this? Don't you like reality? By some obscure chance, that there is some individual who has managed to read this far into my book without getting lost, I'd like to take this moment to let you know that even “Reality TV” is totally, unreal. Yes, it's true. With the exception(s) of some documentaries most of our viewing entertainment is nothing more than an illusion. Most of it does contain just enough reality or, the illusion of reality, that we are able to identify with it. Still, the bulk of it is based on ratings for the purpose of being translated into revenue. The amazing aspect of this sublime form of schizophrenia is our willingness to identify with those words and pictures that have an impact on our physique and emotions. Not only are we more than willing to identify with these two dimensional illusions but we also carry these illusions to extremes. We choose to exalt the actors and actresses who are engaged in portraying these personas, within these two dimensional illusions. Do we belong to a society which is delusional? Naw, not a chance!

To a degree these two examples (Violence and Movies) hold much truth. Because they are extremes much of the truth has been left out. Life is mostly composed of the “gray area” and it is not wise to choose the side of any extreme no matter how compelling it might be to do so. Both of the examples were designed to hold your attention. And it was my intention, through the use of didactics, to make a point; Whenever two extremes are used (good against bad) it is quite easy to assume that one will always agree with “the right statement.”

When exploring the case of violence and wars one must always understand that violence can be unleashed for a myriad of reasons and that wars are usually the result of a breakdown in communication. Both of these reactions are extreme but it is important to remember that they are only reactions. Reactions to the very large Gray Area that our existence is comprised, of. There are no easy answers to the causes of violence and wars. As for the popularity of our cinematic preferences it is not difficult to understand our need for an escape from the everyday challenges of our lives. Many of our most cherished movies are reflective of our highest aspirations. What we desire most are those movies which bring out the better nature of Mankind. Our desire for true love and our hope for a better world; a world that is fair to, all. A world without prejudice, a world with integrity, a world with honor, a world that is just and a world that is good. And why do we regard those individuals, those actors, actresses, writers and directors, in high esteem? Because they are story tellers. From the beginnings of our time, before our written history, the knowledge and deeds of those times were passed down through our story tellers. These stories have been passed down by word and through song from generation, to generation. The tales of those, that have long since been forgotten, have been carried on because of these story tellers and musicians. And, it is because of them that we have a culture which is rich in diversity and a history that sings of our courage and the hope, to go on. Our culture owes much to those story tellers and musicians and that's the truth. It is the truth because I am viewing these subjects from a broader perspective. This leaves more room for interpretation and allows one to question my view(s) on the subjects which I have initiated.

What you have to ask yourself is this: "what is the truth?" The answer to that is an easy one; we must try to find the "TRUTH." And, if you are trying to find the truth you must test everything that you are being told, everything that you see and everything that you read. This is because, aside from moral imperatives, "truth" is transient. Because it is transient "truth" demands that we constantly reexamine and change the way in which we view our world. The best way to change our world is to change what is going on from between our ears and, as history has proven, this is not at all what has been happening. From generation to generation we have been handing down the same old garbage to our children.

Day by day we surround ourselves with “new technology” that gives us the illusion that things are changing. When, in truth, it is merely a distraction from the inner workings of our mind.

We are fooling ourselves into believing that all these technological advancements are going to change the workings of our mind. We are “putting the cart before the horse.” Take a good look at our educational systems. Our grade schools have become dumping grounds for the requirement of force-feeding useless information. Almost all of these institutions can be aced by a child that is endowed with a good case of short term memory. All she/he need do is show up in class, on a daily basis. Aside from learning the fundamentals (reading, writing and arithmetic), grade school is totally useless. I'm not blaming the teachers because, their hands have become tied by all the bureaucratic, garbage. Still, the fact remains that our children are not being taught how to think and how to ask critical questions. You may argue that it is because of the nature of this kind of information (creative and critical thinking) that it should only be taught by our institutions of higher education and that young children do not possess the faculties to understand the higher functions of thought. Yet, we have no problem with the idea of teaching them calculus, trig., physics, astronomy and programming. These classes are good but a child has absolutely no concept of “what they are good for.” During the earlier stages of life a child's' mind is still forming and it is critical that a child learns how to use their minds before they are introduced to the physical concepts of this world. Introducing data, just for the sake of having data, is a ridiculous concept. One must first form the critical mind so the mind will know what to do with that data as it becomes introduced. As a result we are not teaching our children anything. What we are doing is cramming data into a developing mind without any thought of the consequences and hoping, like hell, that they will possibly get something out of the whole experience. This is a very haphazard and illogical way of introducing information. This very method teaches our children to absorb first and ask questions, later. This pattern of absorbing knowledge is maintained throughout their first twelve years of education and it will probably carry on throughout their lives. We are not producing thinkers.....we are producing robots for big business.

Our colleges are learning to adopt this same format. Many of our colleges like to think of themselves as institutions of higher education when, in truth, they are nothing more than “degree mills.” “Get-em in and get-em out.” Higher education? “Big business,” is what I say. Most degrees are acquired for the hope of a better lifestyle. If one has the desire to acquire knowledge the only obstacle between you and it is a short trip to the library and you don't have to pay sixty thousand dollars to get it. What people are really paying for is “that piece of paper.” Let's be honest, now. Besides that, a degree has never been known to curtail great acts of stupidity or immorality. This is “higher education?”

My point is that we are not teaching people how to think. We are not teaching people how to ask critical questions. We are producing minds that are used to accepting life at face value. “What you see is what you get.” “Take it or leave it.” Has anyone thought about the whole concept of change? You don't have to accept everything that someone tells you. You don't have to believe everything that you read. You are entitled to question anything and everything. Allot of good people died to give you that right, yak now!! Don't be afraid of change. Things are going to change whether you like it, or not, so you might as well be a part of that change and start participating. I'm not suggesting that you start on a rampage and begin to disagree with everything that you hear or read, either. What I am suggesting is that one should take the time to question the actions and motives of those who would influence your life and to always remind yourself that other people have the same right to question you. As much as is possible always try to do what is right and not necessarily the “right thing,” (that can be a very slippery slide). LEARN how to ask yourself questions. This sounds like a ridiculous statement but asking yourself questions is really an acquired art and can only be attained through practice. How many times have we all acted first and asked questions, later? How many times have we acted on the knowledge that we thought was right only to find out, later, that we were wrong? As an extreme case in point just ask that same question to anyone that is, or has been, in jail. Every year we are building more and more prisons and stuffing people into them. I wonder how many of them attended one of our schools? Of course, the knee jerk reaction to my statement would go something like this, “well, the whole issue is really a question of morality and we are not obligated to teach morality in our schools.”

And, you would be right in your assumption. However, are our prisons full to the gills because of our lack of morality or are those people incarcerated because of an error in judgment? It could be both. It is my belief that, at the exact moment when any crime is perpetrated, the deed was committed because that individual was not thinking. After the crime is committed and it is brought to court I doubt that there are even a handful of individuals who do not understand why they are there (with the exception of those who are insane). If the crime, that was committed, was motivated only because of an individual's judgment about morality those individuals who perpetrated the crime would actually believe that their motives were justified. This is rarely the case.

Everyday all of us must make decisions which are based upon our ability to ask ourselves the right questions. The outcome, as a result of the questions that you ask, will probably not get you any "jail time" but those questions will define the quality of life that you will live. We must learn to ask ourselves questions. It is our existence that is at stake. The quality of the questions that we ask ourselves today will determine the realities that we will encounter in our future. Any questions?

Our contained brain? 11/26/01

Is it possible that all we know and all that we are is contained within this soft, mass of tissue called "our brains?" Is this tissue capable of housing all of the data that we have gathered during the course of a lifetime? All of the visual data that we have gathered during the course of each and every day of our existence? Every sound that our ears have detected? The evidence of all that our skin has touched? Every emotion that we have perceived? In what kind of data-base is emotional data gathered? Can there be a data base for character, morals, fortitude, motivation and willpower? There must be a LOVE data base! And, let us not forget the IDEA data base!! All these concepts can easily be explained by understanding the process of synapses. Our brains operate exactly like a computer.....electrical impulses, interfaced through billions of cells, with the augmentation of chemical interaction provide us with all the neurological stimulus that a body could hope for to carry out a meaningful existence. If you believe this I'll bet that you are also perplexed about how Santa fits down the chimney.

Have you ever enjoyed the experience of hearing a song that you had long since forgotten and along with that song, came an entire host of memories to accompany that song? Not only the visual memories but, also those emotions that you felt; the smell of a bakery that you used to pass by as you walked to work, each morning. Why is it that you become instantly attracted to some people and others' just seem to blend in with the crowd? There are many individuals who possess natural abilities and cannot explain why; a child performing a violin or piano concerto at the age of six. Some people will dedicate a lifetime to be able to master this art. Have you ever had an overwhelming feeling that something "did not feel right", about a situation, when circumstances gave you no clue as to why you should be feeling this way? And, it turns out that your feelings were correct? How is it that a human being is able to will themselves to die? The contractions of the human heart are not triggered by the brain. What part(s) of the brain enables us to have faith? Faith is a concept which is totally irrational, is not dictated by reality and is not subject to any definition that science can muster. Each and every-day we have new experiences and we acquire new knowledge. Some of this knowledge we may be able to use and much of it is discarded because of the many decisions that we make during the course of our lives.

Each and every decision that we make will, in some way, effect our destinies and the course of our lives. Most of our decisions are made based on our wants, needs and desires. They are decisions that are made as a course of free will. Will someone please explain, to me, exactly how this is done and how this might be programmed? The answers to these questions are totally dependant upon each and every individual and are completely subject to change, at any given moment. Where am I going with all of this? My premise is simply this.....it is not possible to store, assimilate and retrieve all this memory, in any such device which is remotely related to the function of a computer. Why is it that we continue to promote and pursue this line of thought? We seem to insist on comparing the process of human thought to that of a machine. Our attempt to compare the human mind with the creation of our computers is not only absurd, it is arrogant. Our computers are restricted by the physical restraints which govern the physical world in which we exist. All physical objects follow the restraints of physics and linier time which, in turn, must follow the restraints of absolute order. The very nature of absolute order dictates that there be no deviance from predictability. The human experience is anything but, predictable! Even if one does not believe in a higher order and, believes that all change is relegated to the dictates of science, one would still have to agree that it is a waste of time to improve upon or compare an inferior product (such as our computer technology) to a vastly superior device (such as the human mind), which has also stood the test of time. Not only has the human mind proven to be adaptable but it is also flexible, unpredictable, creative and is capable of operating from a source of power which is unstable i.e. the human diet. How in the world can the function of a computer be remotely compared with the abstract process of thought which is generated by the human mind? The human mind has life!

Helen Keller was amazing! Try as we may, none of us can even begin to imagine what living must have been like for that wonderful, strong-willed, human being?! This marvelous human being is an inspiration to all of us because she has truly gone “where no man has gone before.” For all of us, who are currently blessed with the use of all five senses, it would surely be both shock and terror to, instantaneously, be subjected to the world in which she has lived. On the other hand, Helen Keller never knew anything less or anything more. She lived her life as it was given, to her.

One has only to look, to marvel at her existence and her life to even begin to understand the magnificence and the adaptability of the human mind. Could a computer even be compared to or accredited to this kind of process? Are we so arrogant to believe that there is anything we could possibly create that would begin to approach this level of competence? Try as you may and try as you might, there is no way that anyone can convince me that there is a connection between the process of a computer and the marvels of the human mind. There is absolutely no connection. There is no data processing or “storage area (RAM)” for the Human Spirit. There is no part of the brain in which the Human Soul is contained. The Human experience operates in a manner which is independent of the physical world which surrounds us. We, all of us, belong to something which is beyond and much greater than the sum total, of the whole. For a very short time, this is the world in which we exist but, the human experience extends well beyond the boundaries, or the limitations, of our perceived universe.

At this point one would probably assume that I am mocking those scientists, researchers and doctors who have revealed some amazing discoveries about the physical nature of the human brain. Not at all. These men and women who study the mechanics of brain tissue are pioneers and possess an operational knowledge, of this subject, which is vastly superior to the small amount of data which I have stumbled across. What I am trying to point out is that the complexities of the brain, which are being studied, only serve to reveal the brain as a mechanism. These scientist understand this truth and it is not my intention to belittle their plight. Their research has enabled doctors to perform their surgeries more thoroughly and with greater accuracy than previously possible. However, I am positive that, as more and more knowledge is gathered, these scientists will become equally as baffled as to how human thought is generated. Aside from the process of our reaction (reflex) to stimulation, which is common to most living tissue, it must be difficult to understand why neural pathways choose to operate in any kind of organized fashion. And, given the fact that the human experience requires that thought patterns are constantly evolving it must be all but impossible to determine how the various segments of the brain are able to work, in concert, to form any kind of thought that makes sense.

Aside from the flow of raw data, that which is required to maintain bodily functions or perform simple tasks such as walking (not so simple), driving a car, eating (deciding what to eat), communicating with others' (we are very much into higher functions, now) and the list goes on and on, it is impossible to try to understand how the process of thought is initiated. When it comes to this arena we are at a total loss.

Toss in our emotions, our wants, our needs, our religious beliefs, hopes, desires and aspirations of what could be (for our lives) and you have created a complexity of thought(s) which are well beyond the constraints of scientific definition. This is exactly why scientists stick to the mechanics. They are, already, hip to the facts. Or so I would like to believe.

“OK,” so you say: 'How and why does the whole thing work?' This is what I believe is happening. The human brain is more than just a large organ which processes information. It also acts as a receiver/transmitter. Consciousness is not a process of interpreting data it is the process of being "plugged-in" to the *source of life*. I will not attempt to define what that "source" is because the human reaction will dictate that there be some kind of religious connotation and religion is nothing more than man's vain attempt to explain God. Still, it is my belief that this *source of life* is that which we believe to be God and it is not my place to initiate any kind of explanation about what or who God, is. The process of human thought is so complex and so varied (infinite) that it is my belief that this process must be initiated, motivated and controlled by some form of energy that is not comprehensible to our limited grasp of all that we believe to be real. Our perceived reality is controlled by the limitations of our physical universe but the human experience (our minds and our consciousness) are not limited to the immediate realities which we “now,” accept to be fact. We are “now” in the process of growing beyond the limitations of those things that we accept to be true. This is a constant evolution of the human mind and it sometimes seems as if we are creating our own destiny. Where does this consciousness come from? Is our destiny nothing more than a composition of compiled data which dictates our course of action? In that case, we would be nothing more than machines. If we are nothing more than machines then our decisions would be predicated by the terms which govern our universe which would be that of predictable actions and a course of decision which could be predetermined because of our integration with logic. All I'm trying to say is thatthe world that we live in works one way and the mind, that we live in, works another way. 26

We accept this world that we live in because that is what we must deal with but, at the same time, our minds do not accept things as they are because we are able to think. As long as we are able to think we will continue to accept less of what we believe, to be true and desire more information to confirm our convictions. This a part of the process of human thinking. The process of human thinking dictates that we do not accept what we (currently) believe so what, exactly, are we searching for? Why does the human mind operate in such a fashion and what is the force behind this abstract line of thought? This *force* must be coming from somewhere. It is a force that is common to all human beings. And, if this *force* of energy is not “directed” it would be far better if we were all, nothing more than, plants growing in the forest.

Squandered thoughts 09/06/01

In a world with such rapid technological development(s) it seems ludicrous that we are hindered by greed and politics. But, this is our reality and for the time being, we are stuck with it. Unfortunately, almost all of our scientific endeavors, research and development and ideas are relegated by “those things that can be financed.” Those “things” that can be financed (aside from government grants) are usually within the control of corporations who are unwilling to share “corporate secrets” or any other research on which the corporation has allocated funds. Even the development of ideas and products, which seem to have no current use and are often shelved because it is feared that someday this product might have some value, are kept as closely guarded secrets. It is a shame to think, that it may be quite possible, that the potential to cure many of our known diseases could be locked away because of greed. As you can guess, there are many facets to all the disciplines of science and all of these facets are critical in order to have the "total picture," when one is seeking answers to complex problems. Is it possible that some corporation has some “locked away” (unknowingly), answer/solution to a problem that is currently being sought? Could it be that somewhere, somehow, someone accidentally stumbled across unrelated conclusions or results, which were thought to be of no immediate importance, that now could be used to draw conclusions, on years of someone’s’ research? Even if some of this *hidden data* is thought to be of no use it could very well be the information that is needed to move *success* in the right direction. Unfortunately, due to the shortcomings of our society, this is all a mute point. However, there is one possible way to skin this cat.

At this particular time the internet is still in its' infancy.

Aside from copyright infringements there are no laws which govern the exchange of information, within the boundaries of the internet experience. Please, don't misread me, I believe in the right to protect the time and hard work that anyone expends into developing an idea but, by that same right, I also believe that there must be some medium by which there can also be a free exchange of information. Currently, I have no knowledge of any *large scale* database where scientists (doctors, surgeons, mathematicians, physicists, biologists or other professionals within the scientific community), can freely exchange information on a global scale. On a medium which is so given to the exchange of free information.....why, how come and why not?

OK. So, if you have a great idea. Go and get a copyright; protect your idea. What? You say that a copyright, here in the USA, will not protect you from infringement in other countries? Of course not! And, you would be right. Do you see? You too (just like me), are subject to greed. Are we *all* born into the trap? Yes, we are. Is there a way out? Yes, there is.....but, all of our wants, needs, hopes and desires are contained between our ears and we are all subject to a very temporary existence. Who has the time to worry about anything but our immediate circumstances. After all, we are all born into this crazy world, we get a chance to look around, take care of business, have a few laughs and then cash it all in. Why should we care?

All of us have had these thoughts. And, I can guarantee you that every generation since the beginning of mankind, has had these thoughts. The question is.....when you are alone, by yourself, when there is no-one-else to consider your thoughts.....do you ever ask, yourself.....”why am I here?” “What can I do to make things better?” “Do I make a difference?” “Does anything that I do count for something?” “Is my life worth anything?” “Why was I born, into this world?” Don't you see.....can you understand.....these are all POSITIVE questions?! If you have asked yourself any of these questions, in any form, your reason for living has been justified! As long as these questions remain unanswered, within yourself and as long as you continue to peruse the answers, to these questions, that is a sign that you are on the right path. Don't worry, it only means that you are as human as the rest of us.

It could also mean that you, too are a scientist. You see, the one aspect that truly defines a scientist is his or her ability to ask relevant questions. If you are searching for the answer to *any* question you will instantly become a scientist. You can't help it. A sprinter, who is looking for a way run faster, is a scientist. A mechanic, who is looking for a better or faster way to accomplish his/her installation, is a scientist. A student, who is looking for a better method by which to study, is a scientist. A Mother, searching for a more effective way to raise her children, is a scientist. A child, looking for acceptance from his/her friends, becomes a scientist. From the beginning, it has been a way of life for all of us. We just fail to recognize it for what it is. We are all scientists.

One of the most important aspects of being a scientist is the exchange of information within the scientific community (that means all of us). If this exchange of information is curtailed or withheld then our development will become stifled. The process of growth will become cumbersome and the exuberance of progress will be left by the wayside only to be replaced by despair and lethargy. The Human experience demands to be fed and our, will to know, demands satisfaction. We want to know that our existence counts for something and I believe that, above all else, we desire this knowledge the most. If we live our lives without the ability to freely exchange information, about any subject, then we must also learn to live out our lives without the hope of attaining any meaningful results. We will have to accept a life which will be happy with "what we get" and learn to accept what we get, when we get it. Our progress will have to be measured on the time table of what, given restraints, our society will allow. If this is true we will become a society in which mediocrity will rule and all other endeavors will fall by the wayside in hopes that the general population will, one day, catch up. If you think that I am being negative or too far fetched take a good, hard look at what our current society is perpetuating. Most of our entertainment and broadcast media (television, radio, music, reading material) are all geared towards the lowest common denominator; very close to the point of utter stupidity. Nowadays' it has come to be what is considered as "the norm." Stupidity has become fashionable.

Unlike the Universe, in which we live and unlike mathematics, which are both finite.....when it comes to the “Human experience”The sum total *is* greater than the whole!!

Television thinking, (The Boob Tube) 08/05/01 Man, oh man! "Star Trek" has taken over the world. I do love Star Trek. It provides us with a setting from which all things can become possible. It gives us a platform from which all forms of human frailties can be revealed and from which all topics of human discussion can be accessed. It is a setting which provides us with endless possibilities for the discoveries of our universe and our place, within it. Unfortunately, it also has the ability to WARP the minds of individuals who mostly receive information at face value, before they give any thought to a particular concept. It seems like a mute point that I should attack a subject which is so trivial. However, this is more important than one might, seemingly, understand.

Star Trek is only one of the many shows/movies that are available for our viewing pleasure but it has proven to be a science fiction classic which is shaping the minds of its' viewers; both young and old. The fiction that we learn today will shape the *facts* of our future. A good example of this would be Arthur C. Clarks' "2001 A Space Odyssey." When this film first appeared it was a mind boggler. Stanley Kubrick, along with his special effects technicians, took this story-line and, quite affectively, evoked images and visual concepts into the minds of future generations, to come. At the time that they were watching these images our future scientists, mathematicians, teachers, illustrators, film makers and others had no idea that their minds were becoming shaped and that many of these same images would one day give shape to many of the ideas that they would visualize when developing new products and devices, for our world to use. Just take a good look at the interiors of our, recently developed, International Space Station. Take a good look at any of those pictures and compare those images with those that are seen in the spacecraft of "2001 A Space Odyssey." The textures, the colors, the lighting and all the similar angles of the equipment are not a coincidence. In fact, the images that immersed from 2001 served to shape all of the images that were to be seen in future science fiction films such as Star Wars, the movies of Star Trek and Alien. What we experience today will developed, tomorrow.

Granted, 2001 was more of a “science fiction film” than all other films that were to follow. Star Wars and the Alien Epic were more of a sci-fi fantasy. But, you can see how influential all of these images and concepts can become. The only thing that bothers me is that we may become too influenced to the point that we forget to use our own minds and our own creativity and that we don't become stuck with one way of thinking, about our future and our possibilities.

Let's explore some possibilities. Ask anyone, who has watched Star Trek, what a transporter, is. “Beam me up, Scotty!” Everyone knows what a transporter is. For goodness sake.....”are you stupid?” Ask anyone if they think that it will (one day) be possible to accomplish such a thing? Most people will probably say “yes,” without giving it any thought. The fact is, if you did give it much thought, it would probably be easier to imagine farting your way to the moon. Freeze framing, disassembling, transporting (does anyone realize how much space exists between these particles?) reassembling and reinitiating the sub atomic particles is an out of mind concept. One would first have to learn how to stop time and, then reinitiate it. All the mass-densities, motion and frequencies of all sub atomic particles would have to be captured (in time), transported (simultaneously, with all order intact), reassembled and put into motion, just as it was at the moment of capture. Then, there is the question of our mental integrity, soul and our spirit. Or, are we just a mass of moving particles? Anyone want to deal with that question? We like to think that anything is possible.....and, it may be! However, some things are more probable. We forget, because of the things that we have been taught, that there is “more than one way to skin a cat.” First, we must ask ourselves “what is it that we are trying to do?” In the case of transporting animate objects, such as life forms, wouldn't it be much easier to envision encapsulating a life form into some form of plasma and then transporting it along a power-generated, conduit to its' destination? I'm sure that this would be much easier and would not require ripping it to bits, to do so. I am trying to make a point, here. There are alternatives. We must not accept all of the ideas that are presented, to us. We must learn to use our own imaginations. There are other solutions to most problems and challenges. If we are to arrive we must derive.....derive other solutions to navigate around limited thinking. Most of our limited thinking is established by other authors which arrived at their destinations because of unconventional thinking.

We must always ask ourselves “what if,” and not remain captured by the conclusions that someone else has established. As in Star Trek, what if we were able to accelerate to speeds that were well beyond the speed of light (within seconds) and maintain that acceleration? Sounds unbelievable, doesn't it? Has anyone stopped to think about what would happen to the contents, of that "body in motion?" The technology that would have to be developed to keep those contents intact (our bodies) would probably require much more thought than the technological requirements of enabling an object to achieve such a momentary burst of acceleration. I'm not saying that these things cannot be achieved but I am declaring that our means of devising that type of mobility may be quite different than one might expect.

I am not sure of who it was that first made the statement but it has been said that “fact is usually stranger than fiction.” Time and, time again, this has proven to be true. Do you realize that it has been only within the last hundred years that we have learned to fly? Today, there are people that can still remember when flying was not much more than a very dangerous curiosity. If someone would have had the foresight to tell them that, within their lifetime, they would be able to board an aircraft, that would carry five hundred people, at altitudes of thirty five thousand feet, at over five hundred miles per hour, they would have looked at him as if.....well, you know that nutty look. How about their own, personal car that would be able to travel at speeds of over one hundred miles per hour? Computers that would bring the world to their fingertips? Supermarkets with fresh fruit and vegetables, from everywhere on this planet, anytime their appetites desired? See it on a television screen and have it delivered to your doorstep? Flip open this tiny thing, while you are at the supermarket, push down on the numbers and you can talk to someone on the other side of this globe? Do you believe that we will go to the stars? If you told me that..... I think that I would look at you as if you were nuts.

Pure speculation 07/26/01

I don't believe in Wormholes. In fact, I'm not sure what a Wormhole is? To know that it would be necessary to go directly to the originator, of such a concept, to find out. It seems that the whole concept has taken on a life of its' own to the point of being used to describe time travel, time-space displacement and as the porthole which can be used to travel throughout the galaxy. Usually, the noun/name for any object or concept is assigned after the discovery. Our "Wormhole" seems to be growing and growing in more ways than one. I think that it is a name which will be around for a long time and I wonder what form it will take in the years to come? Here is my two cents on the whole deal.

I like to think of myself as a pragmatic person. It is not necessary to reinvent the wheel. If something is tried and proven it is good to refine it and incorporate it for the benefit of all but leave well-enough, alone. This is also true of the Black Hole. Right now we view Black Holes as some kind of wild, uncontrollable event that we would do better to steer around. This is not so. Rather, we should make every effort to understand the physical laws which govern such an event. I'm sure that there are Black Holes of all sizes and that we will find out that they are not so threatening as we believe them to be. In fact, I believe that it is possible to understand the exact threshold at which such an event begins to occur. If we knew the physical laws governing such an event and had enough data to figure out the mechanics, at the exact point and time when this inversion takes place, it may be possible to create and suspend this event at the exact time of conception. Think of the possibilities? It may very well be that this event could serve as one hell of a sling shot. In any case, why reinvent the wheel? Time and again it has been proven that all of our needs have already been met. All we have to do is discover the properties of all those things which have been provided for us.

It sounds far fetched, I know. But, I don't think that we give ourselves enough credit. We already have computers that are able to store, retrieve and assimilate data at fantastic speeds and as things are now progressing, the future of our discoveries will be hindered only by the limitations of our minds. My only concern is that we not limit our resources by looking in the wrong direction(s). Application is the key. As an example; look what we were able to do when our single determination was to put men, on the moon. Today, our children learn about this marvelous experience in school.

But, never in their wildest dreams would they have thought that all this was accomplished by the utilization of slide-rule technology. I've been around for, close to, fifty years and I still find it hard to believe! NEVER UNDERESTIMATE PERSISTENCE AND DETERMINATION!! Everyone involved had one single goal, in mind. There was focus and all of our technologies and resources were used and stretched to the limits of our knowledge. When we had a need for more than what was available we identified that need and dreamed new processes into existence to meet new standards, develop better products and reestablish new priorities and goals in order to meet our challenges, head on.

The capabilities, the resourcefulness and the ability of the human mind to communicate ideas into a unified strength, which is able to overcome seemingly insurmountable obstacles has already proven to be unbelievably effective! We are even able to astound ourselves! Can you remember those awe inspiring words that echoed over our world; "Mission Control. The Eagle One has landed." At that moment, time stood still for all those people who heard those words. Those words said, "YES, we can do it!" We are more than what we believe ourselves to be. Those words affirmed our belief in the Human Race, in our capabilities and in the abilities of all those who came before us and, more importantly, in our belief in God. For he did a wonderful thing when he created mankind.

There is no "good reason" for us not to be able to accomplish anything that we set our minds to. Greed is probably our biggest obstacle to the attainment of knowledge but it is not a "good reason." Greed is the single cause for the greatest, most wasteful, drain of our resources that one could imagine. It sours everything that it touches and it leaves a wasteland in its' path. Isn't it curious that we are the only living species that is capable of pursuing such a self destructive process?

Never the less, we must learn to curb this nasty habit of ours' if we are to realize all of the positive potential that we are capable of unleashing. The Human Race can become greater than the sum total of our individuals but only if the individual is given the freedom to pursue his or her dreams. And, only if the individual is given the right to believe that all things are possible and that they will have the choices to enable them to hope for a better world.

More outrageous conjectures. 07/24/01 It is my belief that all *time*, *matter* and *gravity* are one and the same. Obviously, this sounds like a ridiculous statement and an exercise in stupidity. How could one imagine one, without the other? I may be wrong but quite often I have heard people refer to them in ways that would suggest that these three components are individual entities, which work in concert, to compose our universe. Since each cannot exist without the other does it not stand to reason that *time*, *matter* and *gravity* are all functions of the same engine? Don't we confuse ourselves when we try to separate them as different functions, of the same universe?

As we study subatomic particles we are learning that it is impossible to separate the *matter*, of any particle, from its' motion. Motion is a function of *time*. Fundamentally speaking, atoms are an arrangement of particles (their are also quarks, baryons, mesons, leptons, bosons and who knows what else), into an orderly fashion which make up our elemental universe. The only difference between one atom and another is the arrangement (order) of particles, the number of particles and the speed/frequency at which they travel. I realize that the intricacies of all this order is astounding and that it sounds as if I am trying to over simplify the whole matter but when you boil it all down to size (“string theory” included)the whole equation comes down to a function of *time* and *matter*. I also believe that gravity is a byproduct of *time* and *matter*; That is, all mass which is in motion will generate a gravitational field or a “potential.” This is a whole other matter and one which need not be pondered because I believe that *gravity* is a certainty and is merely a function of *time* and *matter*. As you might expect, I do not think that “time travel” is possible. Since the existence of *matter* is totally dependent upon *time* and vice versa it must follow that all motion be linear and moving in one direction. This is the physical plain upon which we live and if there should be *anything* more we will have to transcend the physical restraints of our existence. Right now, our perception of what we believe to be true is probably skewed.. It is not enough to stay where we are and wait for the next discovery to come along or the next idea to drop onto our heads. We must stretch our imaginations and learn to think far beyond the abstract.

You see, exactly like the universe in which we live, we must also remain in motion or we will cease to exist. Similarly, we must constantly dream new ideas into existence for the sake of our own growth. Many of these ideas may prove to be wrong or, sometimes, partially right. These ideas will be put to the test and they will be expanded upon, putting new concepts into motion. It is also important for me to state that I do believe in God. Perhaps, not as much in the biblical sense but rather I do believe in a God as one who created all of this magnificent order, which we are privileged to behold. The very thought of ORDER, without a creator is too bizarre for me to comprehend. My belief in God has everything to do with the way I perceive our universe. All that we perceive seems to be built/constructed upon logic (everything, except for us). You see, God does have a sense of humor. But, if there is anything that I have learned, about God, it is that he/she likes to keep things simple. I believe that simplicity is the best policy when confronting ideas on a large scale. In our hunger to learn about all things, within our universe, we become extremely involved in the intricacies of the detail and we seem to miss the big picture. We become confounded by detail and begin to believe that our universe is governed by extreme complexity. Beauty lies within simplicity and I believe that if there is one truth about God it is that "God is the embodiment of all that is beautiful." Besides, I do not think that God would give us the abilities to touch our universe and not give us the ability to understand it. That would have to be the workings of something other than God for it could only be construed as a cruel and sick joke, to do so. But, none-the-less, "I swear"sometimes we can't see the forest for the trees.

Let's get crazy: 07/25/01

BLACK HOLES!! Yes, they are all too real and they are extremely mysterious! However, they give us witness to the creation of our universe and with much more evidence of our beginnings than we could imagine! You see, I believe that the material which comprises our universe is being expelled from a multitude of Black Holes and that it is also expanding. But, it is expanding from many different directions. And, as time goes by we will find out that their are galaxies and other matter which are much older than "The known universe" because these bodies of mass managed escaped the violent grip of some Black Hole. Their was no "BIG BANG." There is a good amount of evidence of a focal, or a center from which much of the mass of our known universe seems to be expanding from. However, it is not the product of a Big Bang. It is the product of a Black Hole. An extremely large Black Hole! It is my belief that we are witnessing the process which occurs as a Black Hole expellees the matter which it is unable to contain and that most of the matter which surrounds us has emanated from that *outpouring* of matter.

The idea of a Big Bang is a very compelling idea and fits in very well with the whole idea of the expansion of our universe. It also fills in some of the scientific gaps about the distribution of mass within our universe. And, the universe is expanding.....rapidly. It has been suggested that, before the Big Bang, all mass was condensed into some form of esoteric material (singularity) which was very dense. Such density could not be grasped by any stretch of the human imagination. The content of that mass, which this dense material was comprised of, would be equally difficult to imagine!!! One might even go as far as to suggest that all mass, before the Big Bang, had once caved in upon itself. And, so the cycle goes.....expansion-compression, expansion-compression. This is too convenient. It lacks imagination and what in the world is "ESOTERIC MATERIAL?" What is the finite point at which it would compact? Why didn't this material fuse? What happened to the concept of *time* when all this material was condensed? What would have caused this inert material to explode? If the entire mass of our universe was condensed would it not stand to reason that these extreme forces would render all motion to a complete halt and how is it possible to cause an explosion from material which has no potential?

Would it not be correct to say that this material would have to be unlike any other material that would be within our experience, to describe? How would it be possible to reverse the process and create our known universe from a material which has become completely alien to any known substance contained within the confines of our physical laws? Would it not be fair to say that *esoteric material* is a very ambiguous term and is just another way of saying that "we have a big problem, here." "A problem for which there are no answers?" As we explore the Big Bang theory I believe that we will uncover more and more of these inconsistencies. It is also my belief that the condensed matter of a Black Hole does not consist of esoteric material. As I have stated, it is my belief that *time*, *matter* and *gravity* must coexist if it is to be considered relative to our known universe. This is where I raise the eyebrow. "*TIME*," has the precedent. *Time* is akin to the clocking mechanism in a computer. The hardware is akin to the *Matter* contained within our universe and *Gravity* is the potential of all *matter* which is in motion.

The program.....well, who wrote the program? Anyway, *Time* determines function and order and schedules the clocking events, of which all *matter* must follow. *Matter* is a constant and *Gravity* is a relevant product of all *matter* which is in motion. When a Black Hole occurs this no longer holds true. All that we understand, or know to be relevant folds in, upon itself. Actually, what happens is our known universe becomes inversely proportional to known precedence: That is (Time> (Matter)>Gravity), becomes inversely proportional to, (Gravity>(Matter) >Time). As we observe a black hole what we see is that *gravity* and *time* have become inversely proportional to our universe. At this time we become confounded by it because it does not conform to our perception of the "known universe." What has actually happened is that *time* and *matter* have become inversed because of overwhelming gravitational forces. It is only because of our inability to properly understand these events that our logic seems to fail, us. The reality is, that the *matter* from our universe is losing its' form because of the diminished force of *time*, due to the reversed order of precedent. However, *matter* must continue to exist.....it must go somewhere and it must be governed by *time*. It must have a *clocking device* to maintain order. As mass caves in, upon itself, because of *runaway* gravitational forces we observe a function of physics which is quite the same as thermal runaway in an electrical circuit.

The only way to stop the process of thermal runaway is by shutting the circuit down or by cooling it down, to restore the operational properties and physical characteristics that enable normal functions to continue. I know that this is a poor comparison but it gives you an idea of where I am going, with this concept. In much the same way as one would control thermal runaway our universe also has its' own "built in", fail safes. When a star explodes, when planets collide or when any such event occurs all mass will seek to regain equilibrium. However, like thermal runaway, the Black Hole is an event where the function of normal parameters no longer exists. In an electrical circuit the condition will continue, until failure, if parameters are not restored. But, what happens when this alike-situation occurs on an infinitely larger scale? Who is there to shut it off? Of course, this need not be done. The fail safes have been built in and all equilibrium will be restored. What we see, as we observe a Black Hole, is *matter* slipping into a state of disorder because its' clocking mechanism ceases to function. But what happens to all of this *matter*? Does it continue to sit there acting as a universal trash compactor, continuing to cave in upon itself, or does this device serve a purpose? Why is the existence of this unorganized paradox so necessary in a universe which is so dependant upon order?

Here is my two cents on the situation; when *time* and *matter* caves in, upon itself, it resolves to rectify for the sake of unification. However, since matter no longer has any order (only *gravity* on which to depend), it gains speed and direction towards the center of *gravity* and is expelled, at tremendous speeds (beyond the speed of light), whenever the density of this *matter* becomes too large to be contained. This acceleration is much akin to pushing an elephant through a keyhole. The acceleration this of *matter* becomes phenomenal. At some time, after it has been expelled, it starts to decelerate and seeks to find order. Because these speeds are so great and this *matter* has no order it is impossible to detect this mass, in any other way, except to perceive this mass as black. Until this *matter* begins to decelerate it is still under the influence of *gravity*. Do you know where I am going with this? YES, this is "DARK ENERGY!" As this *matter* slows down it seeks to find equilibrium. If it is to exist, within the confines and structure of our universe, all of that *matter* must conform to the order of precedent. This *matter* slowly succumbs to the order of *time* which, gives it form.

The reason we observe Dark Energy as we do is because it enters our universe at such tremendous velocities (beyond the speed of light) and it is still (predominately) influenced by the tremendous forces of *gravity*. Until this mass slows down and regains form we are unable to detect its' shape until it is shaped by *time* or *clocked* into existence (our existence). This would also account for the unusual distribution of Dark Energy and its' inability to reflect light. We are already beginning to discover that much of our universe is composed of this Dark Energy. And, I believe that we will also discover that much of the rapid acceleration, of the mass within our universe, is due to the extreme gravitational forces which are imposed as *gravity* and *matter* slowly become unified by *time*. It is quite possible that this Dark Energy creates opposing gravitational forces upon relative *matter* as it, once again, seeks to gain equilibrium within the relativity of our universe.

It is impossible to create or destroy *matter*. This is a part of the "Program." I know that there is a God and I know that he is the programmer. I am just an observer of this universe, like everyone else. It is my hope that someone else is able to read my material/thoughts and can tell me what they think. I have no answers but I would like to think that I have some interesting observations. All that we believe we have created has already been created. The best that we are able to do, with our physical universe, is to discover what resources are available to us and to establish some sort of understanding of its' characteristics in order to become more acquainted with our surroundings. I feel small in this great expanse and sometimes I forget where dreams start and reality begins. I would like to believe that God's' greatest gift, to me, is my ability to dream and that somehow, he will allow me to live on and, to dream again.

Trying to understand; John E Foitik 05/14/01

Hello to All, I am

not a Physicist, mathematician, a scientist, a doctor or a poet. In fact, most of the time, I do not consider myself to be an outstanding example of a *good human being*. Born on this planet, in the middle of nowhere, (like everyone else) I consider myself as no more privileged to breath the air than the person who is next to me. After all, aside from their parents, no one really knows where they came from or where they are going? Have you ever had those brief moments when you loose sight of *self* and wonder just why you are here? Occasionally, I have! I'm very happy that this does not happen too often because I don't think that my little mind could handle it. However, it is during these brief moments of self-unconsciousness that I realize my mortality and just how little my tiny being, is. Strange enough, I believe that it is during these *brief moments* that the flood gates are opened. It is a time when we all achieve a greater state of conscienceness. We are all extremely limited because of our physical relationship to this universe into which we were born. This is a universe that is governed by linear time and we have to deal with it, as such. So, even though it is sometimes frightening, I accept those brief periods of "self unconscionableness" because those brief periods remind me of how human I am, how small I am (in relation to the universe) but most of all, that I am alive!! I NEED to know this! Could it be that these brief moments are programmed, within me? These moments are so brief and profound and I don't know where they come from. But somehow, I know that these moments do serve a purpose and that they are good, for me. Most of the time I am caught up in the world and all of my thoughts gravitate towards my immediate concerns, hopes, desires and all that I dream of achieving. If their is one thing that I've learned it is that there is not enough time allotted, in anyone's life, to accomplish much of anything that one truly yearns for. Most of our time is consumed by the everyday pressures of life and dabbling in the meaningless bullshit which seems to be unscheduled and well beyond our control. Every-day is inundated with conflict (someone doesn't like what you are doing), coworkers (thrust into an environment where you must deal with those individuals who, under normal circumstances, you would never associate with), bills (unexpected expenses), "the boss" (asshole), the wife/husband/boyfriend/girlfriend (those individuals who you thought you could depend on but frequently bring new experiences into your life that you could really do without) and all those other things that fill our brains to the limit.

Yet, in our quiet times (when everything stands still) our minds turn to other thoughts. I'm not talking about those thoughts which are self engaged. I am referring to those thoughts where dreams become reality. Those places, where human beings go, that may not make sense to others. Those places of wonder, dreams, hope, love and experiences that you know can never come true but desire them, none the less. Laying on a hilltop, watching the stars and wondering, "why am I here?" "Where am I going" and "am I more than who I believe myself to be?" Do you ever ask yourself, "isn't there something more?" Well, I've got news. I believe that there is!

Have you ever heard of a man by the name of Einstein? He was a great thinker. But, more importantly, I believe that he was a terrific human being. I believe that he asked himself all of the above questions and I also believe, in his mind, that he was not satisfied with some of "our" questions that he answered. To be blunt, I am not satisfied, either. Einstein developed his theory of relativity by asking himself some relatively simple questions. He wondered and he dreamed. As humans some of our greatest revelations come to us as we dream. This could be argued but it all comes down to a question of semantics; What is "dreaming?" Dreaming aside, it all comes down to those thoughts that emanate from the human mind. After all, most of what we believe depends, strictly, upon perception. All aside, our perception has gotten us this far (put men on the moon and allowed us to break the sound barrier) and these things all started as *dreams* or possibilities, emanating from the human mind.

My mind has many questions about the universe that we live in.....Are we limited by the physical boundaries that we are subjected to? Are we stuck on our planet? Are we capable of transcending the limits of our linear universe? Are we strictly limited to *observing* this tremendous universe that is unfolding before our eyes? I KNOW that there is life, out there! Why can't I participate? Other than by miracle (another advanced race visiting us), it probably will not happen within my lifetime. Trouble is, given the distances and our current rate of technological advancement, our hopes of joining our universe is well beyond our grasp and all that we can hope for can be seen in our sci-fi fantasy literature and movies.

Good news! I don't believe that this is true. I have a theory that the way we in which observe our universe to be (given the current way in which we observe our universe) and the way in which our universe exists are actually dependant upon two different sets of physical laws; (1) physical interaction and (2) our perception of that interaction.

Here is an example: Through observation we have seen that our universe is expanding. Since it is expanding we observe that there must be a point of origin. Currently, we explain this point of origin as "The Big Bang." If this is true or not remains to be seen but we do know that our universe is expanding. Evidence, by utilizing methods of Doppler, has shown this to be a fact. Wherever there is expansion there also exists a point of origin and it must also be assumed that it was from this "point of origin," that everything thought to be physically relative, must have been created. From that point of origin, all matter, all time and distance (and the space that exists between all matter) must be considered to be relevant, according to "Einstein's Theory Of Relativity." Assuming that all these things are correct, I've got a load of questions?!

Assuming that all matter originated from one point and that all matter is relative from that point of origin why is it that we are unable to transcend light speeds according to "The Theory Of Relativity?" We know that most of our universe cannot be mapped because we cannot see those points of light which have been rapidly expanding in an inverse direction, probably, at a rate which is proportional to our rate of speed or relatively slower or greater. That light will reach us at different points in our time and perhaps none of us will be around to measure those rays of light because our universe is expanding at tremendous velocities. Since this seems to be true and given that all points of matter and time are relevant from the point of origin (The Big Bang) then why isn't it possible to accomplish speeds which are much greater than light speeds? Already, our planet is traveling away from "the point of origin" at speeds which are difficult to fathom. Given that all matter is relevant and that all matter is moving away from the point of origin (The Big Bang) would it not be possible to accelerate in the direction of expansion and achieve speeds which are greater than "light speeds?" Since all matter is relative, from the point of origin, one would assume that light speeds would be mathematically slower, (traveling towards the point of origin), starting from our planet, towards that point?! Of course, this particular avenue of reasoning is flawed. Or is it?

My reasoning is this; Relativity is relative from the point at which it is observed.....Our point of relativity is not relative to the point of origin (The Big Bang). Our relativity exists (for us) at "OUR" point of origin (Earth). The theory of relativity does operate on a universal scale but cannot be perceived from our point of reference/perspective here, on this planet. I have a theory that our relative point of perspective is hindering our ability to understand our physical universe on a large scale. Furthermore, I believe that light speeds can only be measured (as a constant), when it is measured (only) from its' point of origin (for us, that would be Earth). The speed of light will be different when measured/referenced from any other point (of mass), to another depending upon the amount of force which is being exerted upon the body of mass from which that observation is taking place. However, the speed at which light is able to travel will always remain constant, as observed from a body of mass which is at rest and not effected by the mechanical influence of an opposing force, which will cause time to dilate. It is "the dilation of time" which skews our perspective and our ability to accurately perceive our physical universe. Lets' explore some examples.

I know what you are thinking. It is simple logic and a childhood fantasy but I believe it holds true; In human terms if one were to accelerate at one gravity "constant," one would eventually reach a speed which would be close to the speed of light. But, if acceleration was discontinued what, then, would be the point of origin? If a ship accelerated at one gravity "constant" and the propulsion was discontinued, except for the visual perception of physical motion, what would be the reference for the speed of that ship? Let's give it another angle. Try to imagine yourself drifting in space. You are in a *space suit* and all your life support systems are intact. You are in a complete void. There is no up or down and everything that you can see is completely devoid of any reference. It's completely black (if you so choose you can make it some other color). Complete black can be frightening. Suddenly, you start to accelerate! There is no visual reference of your acceleration but you are able to feel the evidence of your acceleration. If the acceleration was applied to your backside you would consider the direction to be that of a forward motion. If the acceleration came from beneath/under your body you would perceive this to be a motion in an upward direction and, so forth.

However, all of these perceptions are derived from a learned experience because we are used to perceiving our universe/world from a physical point of reference. The one thing that you *can* be sure of is that you are experiencing motion because of the physical evidence of acceleration. Let's assume that you have allot of time on your hands (vacation and sick leave) and you decide to see where all this acceleration takes you? Hoping that, sooner or later, you will eventually be able see something you let this acceleration continue for quite some time. Suddenly, you no longer feel any acceleration upon your body. You feel as though you are drifting, again. After drifting around for a few minutes you, once again, start to accelerate in the same direction. If this routine continues long enough you will eventually be moving at a rate of speed which is equal to or faster than the speed of light! But, according to what? You are still drifting around in a void. Other than your perception of acceleration/motion, the fact that you are breathing and your ability to think (perceive your own existence although, that may be in question) how can you possibly have any knowledge or perception of how fast you are traveling?

The physicists who are reading this must have a few questions and one of those questions has got to be about the matter of “time dilation.” In the real universe their is no true vacuum and what about the question of “relativity?” What I am about to suggest is going to annoy you and will be a point of much contention. This is my argument; Time Dilation only occurs at the moment of acceleration. At the moment that mass comes to rest (no longer under the influence of an opposing force), it then becomes relevant, as a body which is at rest, in relation to our known universe. Our relevant universe is dictated by three components; Time, Matter and Gravity. All three of these components are the constants that power this large engine which we call “Our Universe.” Since all three of these components must maintain a symbiotic relationship, in order for each to exist, it is necessary that a relationship of balance, between all three components, be maintained at all times. When any of these three components are disturbed, at the subatomic level (the fabric of our universe), the relationship of that body of mass becomes unstable in relation to all other bodies of mass. Time Dilation is an excellent example of one of these disturbances. Here is an example; We know, through observation and with few exceptions, that *matter* cannot escape from the gravitational influence of a Black Hole.

The gravitational pull of a Black Hole is so overwhelming that it consumes almost all matter once it falls within the influence of its' gravitational force. As this mass is being swallowed up, by these tremendous gravitational forces, it appears as if this *matter* is continually accelerating when, in fact, at the subatomic level (particle level), these particles are actually decelerating. During the moment that the mass is being consumed, by this cosmic phenomenon, *gravity* becomes the precedent. As all subatomic structure struggles to regain the equilibrium, from the forces that are now pulling it apart, the force which is now diminishing is that of *time*. *Time*, being the clocking device (guardian) which defines the existence of our universe, is fighting to keep all order intact but must now succumb to the new influence (precedent), of *gravity*, which it is being subjected, to. This, in fact, is Time Dilation but takes place only during the moments of influence by application of an exterior force. Time Dilation is what occurs when any inertia is placed upon the gravitational forces, that is produced by the “motion” of *matter*, which was once at rest. It is important to remember that even *matter*, which is at rest, has motion within the subatomic structure of its' mass. And, when an external force is applied to that “body at rest” it will be accompanied by physical changes, to the subatomic particles, as they must now deal with the influence of the external forces to which they have been subjected. As long as this force (inertia) is maintained, the gravitational forces of that matter will remain in a state of flux, which is inversely proportional, to the force that it is being subjected, to. If the force remains constant this material will eventually reach a point at which all motion, at the subatomic level, will cease. This finite point of relativity is referred to as velocities which extend beyond "the speed of light." What I am suggesting is that Time Dilation is purely a function of mechanics and not of the abstract “*notion of motion*,” otherwise referred to as our visual reference of motion. A body which is in motion and, not subject to acceleration (inertia) does not experience Time Dilation because Time, Gravity and Matter are within a relative state of rest. The universal constants are being maintained, within acceptable tolerances, to our perception of what is normal.

Another way in which this phenomenon can be observed is the manner in which light reacts when it is influenced by tremendous gravitational forces. When the excited particles of light are entering the dominion of a Black Hole we see that these particles are unable to escape. Here, in this arena, even for light (the King of speed) there is no escape. Even its' reflective properties are of no value. It almost appears as if the light is being absorbed by this big, black vortex. In a manner of speaking this is true but what is really happening is that the particles of light are under the influence of rapidly-enhanced-Time -Dilation. The rapidly moving particles, which define light, are forced into a state of persistent deceleration until light, as we experience it, ceases to maintain its' physical properties and all the particles rapidly decelerate into inert matter. Rather than the process of absorption the light is actually being phased out of existence because of the constant, relentless and ever-increasing acceleration of mass which is known as inertia.

Speed (the notion of motion), has no mechanical function. The rate of speed at which a body of mass travels has no relative meaning except as a point of reference until it becomes influenced by another body of mass. It is the amount of force or inertia which is placed upon a physical object that will change its' characteristics in relation to other bodies of mass. When a body of mass is in motion this does not always indicate that there is any kind of inertia which is influencing that mass. Initially, inertia may have served to accelerate that body of mass into a relative state of motion. But, unless this force is continued that body of mass can be considered as a body of mass, which is at rest. The fact that this mass now has the visual appearance of speed, motion and direction is relative only as indicated from various points of perspective. When a body of mass comes to rest it can be considered as such because the fabric of that mass (the particles), are operating within the physical norms, of the mechanical laws which govern our universe. These mechanical laws dictate that Time, Matter and Gravity maintain a physical constant to insure a balanced and cohesive, reality.

So, what does this all mean? The answer to that question is simple.....Everything within our known/physical universe must have a reference. If there is an object which is traveling beyond the speed of light then it is traveling at a speed which is beyond our reference.

It is very possible for a body of mass to be at rest and at the same time maintain motion at speeds which are beyond our field of vision or our current means of detection. This does not mean that it does not exist. It is merely undetectable by any means of reference that we currently possess. Because of this it is my belief that we must reexamine the way in which we observe our universe and not use the references which we have developed to measure our own existence, as observed “only” from our visual reference of space and time. We exist in a universe that has created us but we have created our own references of time and space and we must find new ways in which to examine the Universe in which we reside.

THE TMG ENGINE

What is the Matter?; 03/15/03

We are a race of beings who are totally dependent upon *material goods*. All *material goods* owe their existence to a substance which we call *matter*. You can see it, feel it, touch it, mold it, shape it, reconfigure it, admire it, buy it, sell it, breath it, eat it, fly an airplane in it, swim in it, kiss it and study it. But, there is one thing that you can't do.....you can't do without it! To claim that *matter* does not exist would be both illogical and absurd. However, there is a catch. In order for *matter* to exist, as we know it, there must be some type of *glue* which holds it all together. But, if there must be some kind of *glue*, to hold it all together, then which came first.....the *matter* or the *glue*? And if the glue is not there, does the *matter* really exist? The “chicken and the egg” thing.

The *glue* that I am referring to goes by the name(s) of “Time” and “Gravity.” Actually Time, Matter and Gravity (TMG) are all interdependent. Each of these components must be present for the other to exist. Before I go any further it is important to note that *time*, *matter* and *gravity* are never entirely “at rest.” They are continually at odds with one another. Still it is a symbiotic relationship in which each component effects the other to the point that a harmony (order) must be maintained in order for our reality to remain constant. The harmony that I am referring to is much like that of the symbiotic relationship which exists between the *program* and *hardware* of a computer. Each of the two components are very complex and have very different characteristics but both are dependent upon the other for a computer to operate. But, separate one from the other and you will find that you have two, useless items. Neither, of which, makes any sense without the other. Despite the fact that this holds true it is of paramount importance that each function maintain its' properties and operates precisely, without any deviance from the parameters of its' design. Just like the program and hardware, which work in harmony to enable the proper function of a computer, so do “TMG constant” operate in the same way to allow the functions of our universe. And, if the function of any of the individual components are disturbed the functions of the “other two” will be effected.

Because our reference of reality is measured by the changes which occur to *matter* we are more likely to take notice of any and all changes only when *matter* is affected. However, this is not always the case. Aside from our immediate circumstances, here on this planet (tiny microcosms), there are "shifts in reality" (that of *time* and *gravity*) which occur throughout our universe, in proportions which are both immeasurable and beyond our ability to comprehend, given our current state of technology. At this time we are only able to record the aftermath of such events. Perhaps it is not as necessary to be able to scale the violent nature of these events as it is to understand exactly what takes place during these disturbances.

What happens when any of the three absolutes, of our universe, are disturbed? Is it possible for this to occur and if so, to what point can either of these three functions (TMG) be altered without a total collapse of all that we perceive to be "our reality?"

The best example of such a disturbance can best be seen by observing a *Black Hole*. The extremes that occur, during this altered state of our reality, are pushed to the limit. The machine which governs our perception of reality is being stretched into another form. (This observation is based entirely upon the premise that "our" reality is the base line by which the mechanics of the entire universe functions). As we wander through the everyday functions of our lives we perceive our world as *normal*. Everything works as it should. Our automobiles move about in the streets, we turn on our appliances and they function, the trees grow, our bodies grow older, the weather changes and gravity keeps us on the ground. We accept all this as normal and we expect the rest of our universe to operate in much the same way. Time, Matter and Gravity are all working as they are expected to work. This is "our" *base line* but this does not necessarily mean that the rest of our universe is restricted to such norms because Time, Matter and Gravity are very flexible. However, if the state of any of these three mechanisms is altered the other two will follow suit in order to maintain the mechanism which we have termed to be "our reality." Reality is very flexible, isn't it? Very much like a rubber band this mechanism can be stretched, abused and violated but "TMG constant" will strive to remain as one in order to perpetuate our reality.

As you are reading this TMG are/is at rest and there is no precedent. That is to say that neither of the three is more important than the other. But, for the sake of “better understanding” let us say that *time* is the one component that currently holds the precedent to *matter* and *gravity*.

Of all three components *time* seems to be the most mysterious. Unlike *matter* and *gravity*, *time* seems to have no characteristics of any physical nature. *Time* can only be perceived. However, it can be measured but “only” as it is related to *matter* or the motion, thereof. When we are at a race track, on our way to an appointment, cooking food or waiting for our work day to end we are observing the passage of *time*. When we are making observations in chemistry, geology, biology and other sciences our measurements of *time* becomes critical. *Time* must be coupled with *matter* to make it relevant. My reasoning for assigning *time* as the precedent is because *matter* must have a clocking mechanism for its' operation and as one would surmise, I will assign *gravity* as the third precedent because of its' dependency upon *matter* for its' existence. This does not mean that *gravity* is any less important than *time* or *matter*. Ask any of the scientific teams who have devised one of the many experiments which have been performed on one of the Space Shuttle missions and they will expound (in depth) about the importance of *gravitational* affects upon *matter*. Now that this has been established let's play with it.

It has been said that *matter* cannot be created or destroyed. I agree with this statement but as I have already explained, I don't believe that it is entirely the truth. I believe the more complete statement would be that “Time, Matter and Gravity” cannot be destroyed. When a Black Hole is created it is *observed* as Matter which is caving in upon itself. However, it can also be perceived as what happens when *gravity* becomes the precedent within the TMG engine. At the moment of collapse the explosion is so violent and the *matter* is so dense that the atomic structure loses enough of its' cohesive properties to maintain any kind of form. For a brief moment the element of *time*, or any reference thereof, has been eliminated from the TMG engine. This is the point at which the inversion takes place and this inversion is instantaneous! The engine which is now in place, at the moment of inversion, is that of “GMT constant” (Gravity, Matter and Time constant).

I would like to add that, at the moment of collapse, it does not hold entirely true that *time* has been totally eliminated because this event would be impossible. If this were to happen the *matter* would have to be suspended (in time), at the exact moment of the inversion, or this *matter* would cease to exist because there would be no reference for it within our sphere of relativity. *Time* must remain as a part of the engine.....even for the Black Hole. But, it is being stretched (for lack of a better term) to its' limits in order to maintain some kind of cohesion, to the *matter*, which has been torn apart and compressed. The evidence of this can be seen by our ability to physically reference the existence of this compressed *matter* which we call the Black Hole.

There are also limitations to the point at which *matter* can be compressed. As a Black Hole continues to consume the *matter*, which enters into its' sphere of influence it continues to gain mass. The problem that now exists is that the equilibrium which once existed, between Time, Matter, Gravity constant, has been altered. The continuity of *time* no longer maintains the balance of structure and cohesion which allows *matter* the ability to maintain the physical properties and characteristics which comprise our reality. But, as *gravity* maintains the precedent and mass is continually added, would it not be reasonable to assume that gravitational forces would continue to increase and *time* would (proportionally) continue to diminish? How long can this process continue before the existence of *time* is entirely squeezed out of the equation? Is this possible? What would be the result if it did? And, if the function of *time* were to cease then why didn't it occur, at the moment of inversion, during the initial collapse? Actually, in a manner of speaking, this is (very close to) what happened. At the exact moment of the inversion all *matter* (particles) became "suspended" and then caved in upon itself as it succumbed to the new precedent of *gravity*. This "moment" of suspension could also be referred to as the *horizon*. Upon collapse Gravity, Matter and Time (elastic as it is) fights to find a balance. With *matter* as the universal constant, *time* and *gravity* reversing precedent, this tremendous upheaval all takes place from the moment of the explosion to the moment when "GMT constant" comes to rest or the moment at which GMT has regained an equilibrium.

From the moment of the explosion (TMG constant) to the moment when the Black Hole is formed (GMT constant) the change of events occurring within the TMG engine can be scaled on a curve which would resemble that of a parabola. If we were able to observe this event through the use of our five senses our perspective of such an extreme event would be viewed upon as violent, wild, awesome and extreme.

After the Black Hole has formed there will be another astounding observation; the density of the *matter* contained throughout the mass of the Black Hole has become constant!?!? Why? Remember, during the exact moment of the inversion all *matter* had been suspended, without any further change to the material or its' constituents (particles, etc.), and then collapsed up to the point of "GMT constant" and the clocking device, which determines the motion and construct of all *matter*, has been slowed down. It is important to understand that GMT "constant" only occurs at the exact moment of the inversion and, depending on the mass and density of material consumed, will remain at this "constant" until more mass is introduced into the environment. After the inversion the state of the Black Hole will remain in a state of $G > M > T$ and will remain as such even when *matter* is being added or subtracted from the vortex. This is the state of the Black Hole.

As to the matter of just how much (*time*) has been altered is anyone's' guess. It would be logical to assume that the greater the mass/density at the threshold of the inversion, the greater the shift in precedents from "TMG constant" to "GMT constant." All the same, it has been altered. Because of this radical shift, in *time*, all of the *matter* will break down into its' more basic components which will cause this matter to become less reactive. Yes, it will begin to cool down and, it will cool down "rapidly!" One can still expect that this *matter*, which has been introduced to intense gravitational forces, will also be superheated as it is being consumed. But, not at temperatures which would allow fusion to occur. The sudden impact of *time dilation*, accompanied by enormous amounts of *gravitational* force, upon this reactive material would be much akin to throwing water on a fire or immersing a ball of cotton into liquid oxygen and then submitting it to a vacuum. In order to give you a better visual; try to imagine yourself as a free-floating-particle which is already located within the mass of a Black Hole and you are observing all of this *matter* which is being consumed.

As you are watching this *matter* come towards you it would look very much like the visual that you observe, on a “Star Trek” episode, as they decelerate from *warp drive* to *impulse power*.

This must sound like some kind of wild idea given the fact that, under normal circumstances, gargantuan amounts of *gravity* should serve as a catalyst for the production of overwhelming amounts of heat. And, under circumstances which we deem to be normal, you would be right. However, the conditions that exist ($G > M > T$) within the constructs of a Black Hole are far from normal. The forces of *time* have now “taken a back seat.” In essence, what we now have is very large, sphere of compressed *matter* (composed of elemental atomic and subatomic structure), spinning around at tremendous velocities. This is, of course, a description as seen from the outside, looking in. The mechanical constructs of such an event, as seen from the inside looking out, are better left to mathematicians who enjoy burning their brains cells in an attempt to make it all look normal, for us.

In the next chapter I will wrap this up and explain exactly where I am going with all of my presumptions. But before I indulge myself I would like to impress upon you that it is important to remember that all material, which can be referenced within “our” sphere of reality, must conform to the operational mechanics of the TMG engine. It is equally important that we contain ourselves and stick with the simple realities that confront us and not dwell too much upon the metaphysical or questions that will lead us into the path of infinite possibilities. If we attempt to breach the confines of linear time and the physical constraints of our present reality it will only lead us down the path of irrational thinking.

Let me get it over with and tell you that I do not believe in the whole concept of the “singularity.” The thought of any such *matter*, which would possess infinite density, is an irrational idea. Suppose you and I were sitting together, observing the night sky, beneath a blanket of stars. You direct my attention towards an area, in a constellation and you point to it and say, “did you know that cosmologists have detected a singularity right there, between those two stars and it is at that exact point that *infinity* exists?” I would then say to you, "Wow.....but.....wouldn't that also be true for just about any direction that you pointed to?" If you are a scientist and hope to peruse the line of thinking that any such *matter* exists it would be better for you to find some other similar and less stressful career path such asoh.....stacking ball bearings in a bearing factory.

If an equation is perused which leads one into the path of infinite variables it is probably a good time to begin looking into other options and other directions to find a solution to your problem. There is no mathematical equation which will ever solve the conundrum of infinity!

Altered states of matter: 05/19/03

Since Black Holes seem to be operating very well, within our universe, it is also logical to assume that they are also subject to the physical laws which govern it. The laws which govern our universe must conform to physical restraints or boundaries (parameters) and our Black Hole *must* follow suit. Because of this there has got to be a limit to the amount of mass that a Black Hole can consume, at any one moment, according to its mass and density. This being the case it is a certainty that large amounts of matter are also being expelled from Black Holes at various intervals or perhaps at a rate which is not so sporadic as one might think. Remember, TMG (constant; i.e. at rest) will always seek an equilibrium to maintain its' existence. But, within the confines of a Black Hole you have a state of GMT (which is not a constant after the point of inversion because it is continually expelling mass) and is better expressed as $G > M > T$. Since *time* is at the bottom of the heap during this ever increasing state of compression it is easy to understand why *matter* would be continually expelled from a Black Hole. However, *time* will not give in to the dictates of *matter and gravity* and if it were at all possible for this to occur both *gravity* and *matter* would be forced to follow suit because they are intrinsically linked. You can't have one without the other. However, attached to the certainty that mass is expelled there is also another certainty, upon which we can depend and it is this one governing principle upon which I base my theory about the coexistence between Black Holes and Dark Energy.

Presently, what we are beginning to understand is that there is much *matter* filling the dark expanses of our universe; that which most of us refer to as "voids." Much of this *matter* is thought to be from the remnants of The Big Bang and now there seems to be some physical evidence of Dark Energy (I believe that Dark Energy and Dark Matter are one-type-of-bird with different colored feathers) which is characterized by the accelerated movement of material contained on the outer rims of some galaxies. It is also believed to be the single cause for the rapid expansion of our universe and exists in such quantity that it comprises seventy three percent of all known space! Could it be that this Dark Energy is having a gravitational effect upon the surrounding mass? If this is true not only would we have to assume that the composition of Dark Energy is very dense but it would also have to possess a gravitational field which is diametrically opposed to the surrounding mass.

It is my belief that all these statements possess more validity than mere assumptions and it is my contention that this Dark Energy is composed of the disassembled matter which is emanating from the numerous Black Holes throughout our universe.

There are a few fundamental differences about the *matter* which is expelled from the Black Hole. To begin with, if you are in search of exotic material, this form of *matter* is just about as exotic as you're going to get. Aside from being not much more than a giant soup of compressed, basic particles this material cannot yet be combined with any components of material which exist within our version of reality! Think about that?! One might expect that this material would be constructed of anti-matter, particles. However, if this were true then the existence of our universe would be in peril due to the destructive nature of this material, as it became introduced to its' counterparts, throughout our universe. If this "stuff" is not anti-matter and it is also foreign to the constructs of our reality then, what kind of stuff is this?

This "stuff" is the material from which our universe is constructed. The troubling thing is that we cannot recognize this material, as any kind of known *matter*, because this *matter* does not yet have any recognizable form. There are two reasons for this. Both, of which, go hand in hand. First, this *matter* is being hurled through space/time (TMG constant) at velocities which would appear to be greater than that of *light speeds (undetectable)*. Secondly, this *matter* is still influenced by GMT constant (constant at the moment of expulsion) and it is because of this influence that this *matter* would appear to be traveling at speeds which are not relative to our perception of the known universe (TMG constant). What we are witnessing as we observe this *matter* is exactly the opposite of what occurs as this material collapses into the Black Hole.....that is..... *time dilation*, in reverse. As this *matter* is being expelled the three alterations which now makes this process so unique is that (1) this *matter* has been disassembled (2) this *matter* is still influenced by altered states of *time* and *gravity* (3) it is now being hurled back into normal space at unimaginable velocities. To give you an example of just how bizarre this process must be, once again, try (as much as possible) to imagine yourself as a particle which has been consumed by a Black Hole. Remember, you are now under the influence of the GMT engine and *time* has slowed down, for you. With one tremendous burst of speed you are hurled out into normal space which is governed by the TMG engine.

What would be the reference for the rate of speed at which you are moving through, normal, space? In order to regain relativity within the TMG engine would you have to accelerate or slow down? I shall leave that one to task for a competent physicist. However, one must try to remember that before this *matter* was disassembled it did have form/composition which was maintained and governed by the TMG engine. Even if one does not believe in my concept of the TMG engine and should choose to stick with the formalities of our current concept of physics one would have to admit that the mechanisms which govern the operations of a Black Hole are anything but "normal!" Why should anything different be expected from any type of *matter* that should be expelled from the same? In any case it should be noted that the Black Hole does not conform to any current laws of physics which we are able to deploy in order to explain its' existence. It is a structure which defies any form of order within the confines of its' borders. Since it does exist within the structure of our reality I maintain that it does comply with our physical laws, even though those laws have been altered to that of GMT ($G > M > T$) and, it is my theory that this altered state of *matter* must now follow the state of GMT constant as it becomes introduced to its' new environment (TMG constant). As this *matter* is expelled from the multitudes of Black Holes, throughout our universe it seeks to regain equilibrium within the TMG engine. We are beginning to perceive the first stages of this process and recognize this *matter* in the form of Dark Energy or Dark Matter. I believe that both are the same. If I could be so bold as to make some alterations in the definitions, of the two, I would define Dark Energy as the *matter* which is still under the influence of GMT and Dark Matter as what we observe in the form of molecular clouds or other such *matter*. However, the difference between the two are hardly discernable as they are still only indications of *matter*, which is still within the influence of the GMT engine, that is in various phases of deceleration as it re-enters the TMG engine or our "constant" state of relativity. After that "constant" has been achieved we begin to recognize this *matter* in the form of molecular clouds, nebulae and other forms of stellar nurseries. This *matter* then takes form and, along with other stellar material, develops into new stars and galaxies.

The reasons for the existence of Black Holes varies. Upon first glance we might observe them as being a source of some great evil which we could better do, without. However the need for Black Holes within our universe is just as important as the need for earthquakes or volcanoes on our own planet. Just as earthquakes and volcanoes are responsible for the creation and recycling of minerals, fresh soil and all of the components which are needed to sustain life so are Black Holes responsible for the procreation of new planets, stars, solar systems and galaxies.

Another positive aspect of Black Holes is their enormous, unquenchable appetite. The reason that I view this on a positive note is because it is also the cause of their inevitable demise. You see, a Black Hole must constantly consume *matter* in order to maintain its' existence. If it doesn't it will dissipate, from the depletion of *matter*, in a period of time relative to its mass and density. This is extremely important because this process allows a constant harmony to exist between TMG constant and GMT i.e. $G > M > T$. As the Black Holes expel their *matter* they also expel their energy. This energy is translated into the force which allows new material (*matter*) to be scattered throughout our universe and it is this exotic material which causes our universe to expand. As our universe expands our Black Holes have less and less *matter* upon which to feed. When this happens the production of this exotic material (Dark Energy) is hindered and *matter*, once again, begins to contract as *gravity* is allowed to do its' thing. Too much of TMG constant and our universe will continue to expand (because of the dissipation of raw material) and eventually scatter into space and time. Too much of GMT constant and our universe will collapse. Both of these theories have been suggested and some believe that one or the other, ultimately, holds true. As you can tell I adhere to neither and choose to believe that there is a natural order to our universe rather than some kind of reasoning which would lead to an inevitable end.

At this time there is also confusion as to why some galaxies experience acceleration on their outer rims and others do not. The reason for this may be because of the random dispersion, various sizes and states of growth or diffusion, of Black Holes, throughout the universe. The random distribution of Black Holes and the relative proximity of any *matter* in relation to the dispersion of Dark Energy from the Black Holes, will vary the effect that the Dark Energy will have upon any *matter* that is within the influence of the TMG engine. This same idea would also hold true for all *matter* throughout our universe.

As we map our universe we will find that the dispersion of *matter* will seem to be predictable in some areas and not so easily understood in other's while, on the whole, the entire universe will seem to be expanding with some rate of consistency. This is simply because of the gargantuan amounts of *matter* that is out there. "Good Lord"it is impossible to fathom!! And, all of it is continually pushing, pulling, compressing, expanding, spinning, exploding.....isn't it amazing that there is any sense, to any of it, at all?

As I have been expounding upon my "notions" (I don't know what else to call it) about the TMG engine and various notions thereof, I know that I have left you with many unanswered questions of your own. If Dark Energy is some form of *matter*, which does not yet exist within our realm of physical relativity, then how is it able to have a gravitational effect upon our universe? How is this material expelled from a Black Hole; from all directions, from the axis of its' poles or is it thrown off at tremendous velocities due to the inertia of its' spin? At what point does this *matter* (which is at GMT constant) re-enter our realm relativity? What is the composition of this material as it becomes re-introduced into the TMG engine? And, if my assumptions are correct, then this Dark Energy must be all around us, even as you are reading these words and, why does this *matter* not affect our physical beings? Is it around us, over us, under us, within us.....where is it?

Actually, I was hoping that you could answer these question for me! I don't know whether my theory is right, wrong, close, far off or "good shot but no dice." Like everyone, I am just trying to understand this magnificent universe which we belong to. I don't claim to know anything but I do like to think that I have some interesting observations about this reality in which we are involved. We must never reach a point at which we stop stretching our minds to find new ways of observing this reality. No matter how absurd our way of looking at things might seem at the time it will never be as absurd as the reality, which we will inevitably find, at the end of our search. The point being is that we must continue to look beyond our current ways of thinking if we to arrive at a destination which is well beyond our current stage of development. Perhaps my ideas are completely without merit. It is also quite possible that some of my ideas are "right on the money" or are pointing into a direction which will give pause or redirect other's on, to a new avenue of discovery.

A true scientist will never become so presumptuous or arrogant as to believe that he or she has even a few answers, to many of the questions which confront us, about the functions which govern the existence of our reality. If my ideas have given pause for thought, to some of those questions, then I will be happy. Does anyone out there hear me?

Religion/Division; 11/11/02

Why is there so much division within religion? The Bible is read by the Catholics and Christians but the Catholics do not refer to themselves as Christians? I take it to mean that Christians are those individuals who follow the teachings of Christ? Christians have divided themselves into different denominations such as Methodists, The Church of God, Protestants, Baptists and who knows what? There are the Mormons, Quakers, Buddhists, New Age and many other attempts at trying to describe God. Let us not forget about the Jewish Faith. These are the individuals who believe in the Old Testament but do not hold the New Testament with any regard. Not to worry. Within each of these religions, which are being divided into sects as we breath, we have "schools of higher education," which are crammed with theologians who are busy trying to sort this all out. They will always have a job because by the time they will have figured it all out everything will have changed. What a mess!

I am not trying to make fun of religion but I cannot make any sense of it. After all, if one tried to embrace each and everyone of these religions, during the course of ones' lifetime, he/she would become a lunatic. It is difficult enough to understand only one of these religions in one, short life. Not only that but each and every-one of these religions claims to have the definition of God nailed down. Pun intended. It is for this very reason that so much division exists within the religious community. This is also the primary cause for all the arguments. Throughout our history these arguments have been the cause of many wars and countless deaths. Don't kid yourself. The arguments are far from over. They continue, today. Why?

We are all human and we are flawed. We all "miss the mark." We sin. There is no mystery in this. Because of this it is understandable that we will have a limited understanding of who or what God is. How can anyone claim to comprehend the infinite? In our limited capacity to comprehend our own existence how could we ever begin to explain that which created our universe, the laws which govern it and where it is all going? What kind of power gives us the ability to love or to comprehend self and why is it so important for us to invent religions to explain all of this? Lest I forget, let me take the time to say that even science is a form of religion. If pursued in a zealous fashion any scientific endeavor can take on the fanatic trappings of religious fervor.

After all, in the end, all of our efforts within the scientific community seek the answers to one question; "what is the truth?" Of course, the truth is embodied in that which we refer to as God. Religion seeks to find the truth and that is a good thing! The bad thing about religion is the division that it causes, between human beings, as we all seek the truth. Does anyone really believe that God is impressed by all of our bickering? Is this what God had in mind for us? Or, is this a problem which we have created? In our fallible and human-ways is it possible for all of us to rejoice in God in our own way and still embrace one another without the trappings of hate and fear? Each time a new religion is created I only see another reason for division.

Let us assume that one of our existing religions is one hundred percent correct. Let us say that this one religion does have all the answers. This religion is perfectly in line with the ways in which God had intended things to be. If you were a believer in this particular religion would you honestly feel that God would want you to ridicule those, individuals who do not have the answers to the "one truth?" If God has given you the keys to life do you believe that it would be in your best interests to keep them to yourself? Do you believe that God would be so petty? If you knew that their were those among you who so desperately sought to know the truth would you deny them the opportunity? If you told them the truth and they would not accept it would you reject them or would you show them love? How about just a little bit of understanding? Could you do so without being aloof and judgmental? Do you believe that God created us only to destroy one another because of his name. Sounds' like a *force of a different kind* to me.

If not careful, the trappings of organized religion can offer up an excellent foundation by which the forces of evil may gain an alias. What better way to corrupt and destroy than working from within? When the enemy is working from within the camp it is, quit frequently, undetectable. When one does not have the love of God in his heart, the love of his neighbor in mind and the will to do good then it becomes possible for evil to gain hold within any religious group. You may never realize that it is taking place. As frail as the human mind is, an individual may become influenced before he/she has any idea of the damage that has occurred. An example of this kind of damage can be witnessed when observing the mental and emotional mess of individuals who have been influenced by a cult.

Despite the fact that these people have been led astray it becomes all but impossible to make them understand that what they are doing is wrong. A cult is an example of extremes but it does happen and it has taken hold of some very intelligent people. It can happen to anyone. No one is exempt from the influence of this type of twisted logic.

One of the best ways to avoid this catastrophe is to steer clear from those people who evoke any kind of fear as a motive for your patronage. Fear is a powerful motivator but has no place in faith. Faith is not motivated through or by fear. Faith, in God and fear cannot exist within the same realm. Even though you might be listening to a sermon in some church, if that sermon seeks your attention through the use of fear you had better think twice about what is being preached. However, there are no guarantees and those individuals whose lives are full of confusion, doubts, deep sorrow, depression and have minds that have become weakened will always be easy prey for the perpetuation of evil. The division that exists because of varied religious beliefs does not serve to help matters. It merely compounds the problem.

I don't claim to know all of the names of God, where he came from or where he is going. I don't know what he is doing and why he does it. Is he male or female or both or none of the above? Is he here, inside of us or does he dwell inside every particle that exists? Is God so far beyond our limits of understanding that our ability to describe him are not contained within any language that we could speak? When I am being honest, with myself, I must say "that I do not know?" But, within my heart, I feel that there is no tear that falls unnoticed by Him. There is no joy in which He, too does not revel. There is no prayer that He does not hear and there is no love that He is not a part of. But, like all children we must learn. So, we fall down and we get up, again until we can fall no more. Then he will come and embrace us and say, "I was with you, all along."

P.S. I am a Christian

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