

'NEW ENERGY' AND HODOWANEC'S RHYSMONIC COSMOLOGY

by
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ABSTRACT

Four decades ago-then employed and now retired-research physicist Gregory Hodowanec (pronounced Hoe-doe-wahn-eck) began his thinking about and conceptualizing of a new cosmology. One which did not then and does not now use as a starting point, as other approaches seem to, an obsession with 'unifying' the various 'forces'; forces which became separate and apart not because that is the way they occur in nature but simply because that is the way they were perceived by the prominent practitioners of the also separate and apart, fragmented, sciences.

After reading an aside in a reprint of Max Planck's THEORY OF HEAT RADIATION, Hodowanec decided that author's suggestion that his derived Universal Constants could be used as Universal Natural Units had the potential to form a new cosmological perception of the workings of this universe at the most fundamental, causative, level. The level at which resides the prime moving force which results in the structure, the fabric, out of which all else **that is** is crafted. Indeed an ambitious undertaking by Hodowanec! But not one without many encouraging confirmations on this decades long journey; some from his and others hands-on experimentations and some from theoretical excursions; that in fact there were many, many **artifacts** attesting to the actual existence of such. Some of these artifacts were implicit in, if not usually seen, the findings of the many, many conventional sciences practitioners. Some were to be experienced first hand, if often ignored, in the daily lives of all, scientist or not, as those considered 'mystics' have, over the eons, tried to convey.

The heart of this paper is Hodowanec's most recent, and possibly last, detailed "Cosmology Note;" the last in a series of many over the years sent to a handful of interested colleagues. It was his intention when he composed it and mine in offering it here that **some** will find some inspiration here. I urge the reader to approach the reading and consideration of both the content and spirit with an **open** and **uncluttered** mind, one which might find in this the **beginnings of new insights and understandings**; perhaps even some **practical applications**? What can it hurt to look carefully and see?

INTRODUCTION

This latest and **possibly last** Cosmology Note from Gregory Hodowanec will serve as an update for those who have a copy of the compilation of the bulk of his work HODOWANEC'S RHYSMONIC COSMOLOGY. (Those who don't can obtain a copy from Hal Fox, NEN, 3084 E. 3300 South, Salt Lake City, UT 84109-2154, (801) 466-8680. 2 volumes, \$60, Ppd.) For those who know little or nothing of his work, this Note may serve as a brief introduction. One that hopefully will encourage some to dig deeper.

Ahead of the text of this Note I have added a Table with most of Hodowanec's **NATURAL UNITS** and their mathematical Derivatives. These are rooted in Max Planck's **UNIVERSAL CONSTANTS**. Also added are some definitions and the four basic Postulates of Hodowanec's Cosmology. These are

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followed by the Figures referred to in the text. At the very end I have added Selected References to some of the material in the two volume book. Interspersed in the text I have added some comments I hope will be helpful.

I encourage those tempted to dismiss out-of-hand the entirety of Hodowanec's work **simply** because they find some premise or postulate or conclusion or experimental result at odds with their pet notions or beliefs to suspend such summary judgements long enough to discover the **bigger picture** with all its implications. I also encourage them not to stumble over choices and uses of words but to become familiar with the author's style and **intent**. From my personal experiences over the last decade since I first discovered this work, I know many will balk at the possibility of **actually**, not just **theoretically**, being able to **observe** faster-than-light phenomena. Especially since the means to do so are so simple and 'unsophisticated'.

Perhaps this simple logic will help? If there is some basic 'stuff' (aether, force, action, mover or whatever) underlying and responsible for the creation of all else there is; **as their certainly must be**; than by definition and of necessity 'it' must be **everyplace present** else it **cannot be basic**. (Agreed so far?) Further, since it must be everyplace present, it must be **everyplace observable** by some means.

Where? Everyplace! Such as within the ubiquitous 'noise' of all electronic devices and systems; the (NOT!) random fluctuations of earth's gravity fields; the nature of sound; the nature of EM propagation; the nature of sub-atomic particles; the nature of stars, planets, galaxies, black-holes, novae, et al.; the noises of technology; the nature of solar flares; the nature of seismic actions; the nature of the jet-streams; the nature of the human mind reading these words; the nature of the paper they are printed on, and - - - EVERYPLACE ELSE THERE IS. Many of the 'places' just mentioned are where Hodowanec and others, using his basic techniques, have 'found' 'it' in its many manifestations. OK, so question this! BUT PLEASE look for yourself! The means, methods, techniques, are there in as yet 'crude' forms awaiting further developments. Yours?

So, how does all this relate to 'New Energy'? 'It' is everyplace present and everyplace active so how can it NOT relate?

TABLE

Planck-Rhysmonic Units (from Hodowanec, RHYSMONIC COSMOLOGY, P.45)

(Note: E-- represents powers of ten)

- h (Planck's Constant) $\approx 6.624\text{E-}27$ erg-sec.
- \hbar (Planck's Reduced Constant) $\approx 1.054\text{E-}27$ erg-sec.
- L^* (Planck Length) $\approx 1.616\text{E-}33$ cm.
- T^* (Planck Time) $\approx 5.391\text{E-}44$ sec.
- C^* (Planck Velocity) $= L^*/T^* = C \approx 2.997\text{E}10$ cm/sec.
- M^* (Planck Mass) $\approx 2.177\text{E-}5$ gm.
- L^{*3} (Planck Volume) $\approx 4.22\text{E-}99$ cm³.
- D^* (Planck Density) $\approx 5.157\text{E}93$ gm/cm³.

Rhysmon Parameters

- Rhysmon Radius $\approx 1.62\text{E-}66$ cm.
- Rhysmon Volume $\approx 1.78\text{E-}197$ cm³.
- Rhysmon Number $\approx 2.37\text{E}98$ rhysmons/cm³.

Derived Rhysmon Units

A^* (action of rhysmon) = $h/2\pi f = \hbar = E^*T^* = E^*/f^* \cong 1.054E-27$ erg-sec.
 E^* (energy of rhysmon) = $M^*C^{*2} = F^*L^* = \hbar/T^* \cong 1.956E16$ ergs.
 F^* (force of rhysmon) = $M^*a^* = E^*/L^* \cong 1.22E49$ ergs/sec.
 f^* (rhysmon frequency) = $1/T^* = E^*/A^* \cong 1.855E43$ Hz(CPS).
 a^* (rhysmonic acceleration) = $F^*/M^* = L^*/T^{*2} \cong 5.56E53$ cm/sec².

Visible Universe Parameters

R (radius) $\cong 1.14E28$ cm.
 V^O (volume) $\cong 6.2E84$ cm³
 M^O (mass) $\cong 3.2E178$ gm.
 N^O (number of rhysmons) $\cong 1.47E183$.
 E^O (energy) $\cong 2.9E199$ ergs.

(Hodowanec Note: Some of the above determinations are only preliminary and thus may be changed in the future.)

Rhysmonic Postulates (from Hodowanec, RHYSMONIC COSMOLOGY, P.9)

1. The universe is a finite, spherical, matrix structure which has finite energy content which is a function of its size.
2. The universe is Euclidian in geometry.
3. The edge of the universe is a perfect reflector of radiant energy; therefore the universe is a perfect black body.
4. Matter particles (mass) form only in the central region of the spherical universe.

SELECTED DEFINITIONS (From Hodowanec, RHYSMONIC COSMOLOGY, P.46)

Rhysmon: The fundamental 'particle' in the substratum of our universe.

In a matrix structure it makes up the very fabric of our universe. It moves in a closed 'circular' path and has one quantum unit of action, the Planck Constant, h . (Rhysmon; from the Greek for "ever-moving.": $\rho\acute{\iota}\varsigma$)

Rhysmoid: The sum total of rhysmons in the matrix structure of the perfectly spherical structure which is our universe. Undisturbed, this is a perfectly interlocking mechanical structure forming our so-called vacuum.

Rhysmonic Impulse: A short directed vector of rhysmonic energy resulting from the matrix structure of the universe. This vector is approximately 10^{-33} cm long and contains h quantum of action. In a pure rhysmoid, these energy vectors cancel and no phenomena exist. Any modification or disturbance in this structure results in phenomena known as particles or fields.

Rhysmonic Particle: These are localized structures...where there are excesses or deficiencies of rhysmons in the matrix structure as compared to ...the pure rhysmoid. The geometry of these structures could be very stable, forming the known masses..., or transitory forming the many short-lived particles.

Rhysmonic Forces or Fields: A perturbed rhysmonic matrix structure results in excess directed...impulse vectors which are not cancelled and thus manifests itself as a force or a field of force. The known force fields are but different aspects of these excess directed rhysmonic energy vectors.

Rhysmonic Charge: Same as electrical charge...results of excesses or deficiencies of rhysmons which are not cancelled and thus act as sources or sinks for excess directed rhysmonic impulse vectors. The flow of excess directed vectors from the source to a sink forms the entity known as an electric field.

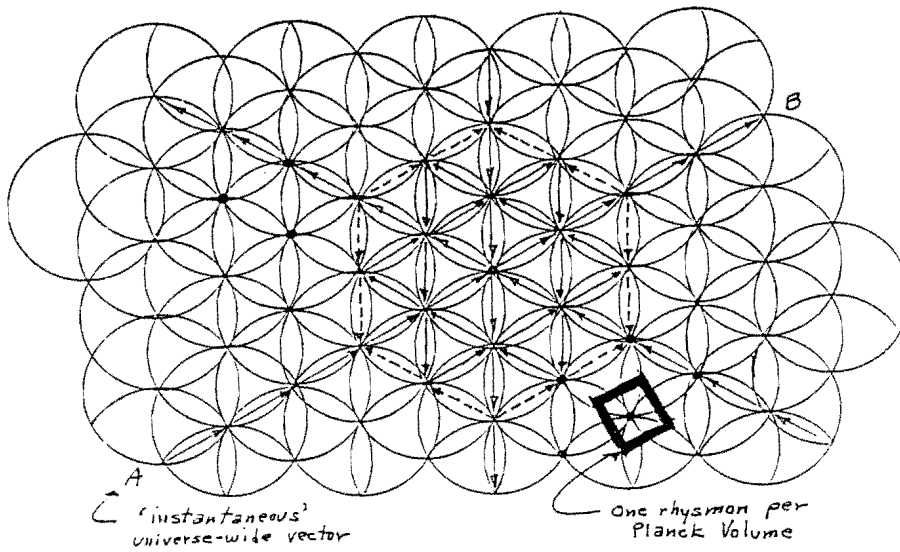


Figure (1) - Extended planar view of basic cell of matrix structure.

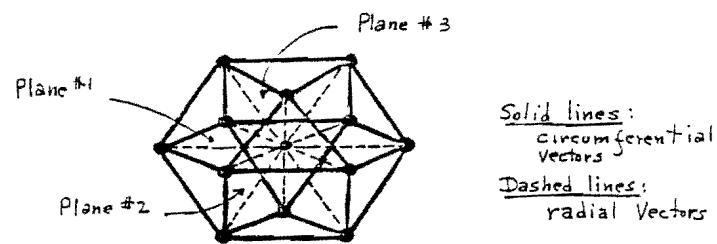


Figure (2) - Three dimensional view of vector equilibrium of basic cell of matrix structure.

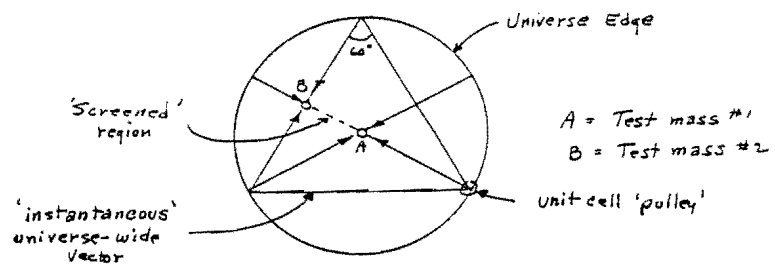


Figure (3) - Gravitation in terms of rhyssmonics.

Dear Colleague: This may be of interest to you.

I. Extraction of Energy Directly From the Aether

A. Introduction

It was my original intention to include some of this in a revision of my monograph Rhysmonic Cosmology. However, revision work is quite time consuming and the time was not available. Therefore, I then planned to write an extended Cosmology Note on this subject complete with many references. However, circumstances here have changed so much that even that was no longer possible. Thus, this Note will be written in a matter-of-fact essay style with no attempts at referencing. It is being written "off-the-top" of my head and thus may not be as well organized as it should. I apologize for that, but it is the only way I can release more of my thoughts to you in this possibly last (NOTE:br) Cosmology Note to you.

B. Background

As most of you now know, (my) Rhysmonic Cosmology got started in 1959 when Dover Publications issued a reprint of Max Planck's "Theory of Heat Radiation." That book contained a short aside in which Planck mentioned that Universal Constants could be used to develop a system of Natural Units. I recognized, at that time, that such a system could possibly reflect on the basic structure of our universe, especially since it was noted that the natural units of length over time (a velocity) agreed very closely with the experimentally determined velocity of light in a vacuum! The Planck Natural Units and their many derivations are thus the very basis of my Rhysmonic Cosmology.

Before continuing with the basics of this as it could apply to extraction of energy directly from the rhysmoid (the aether if you wish), I will digress a bit to cover some of the philosophy behind this. I have mentioned third dimensions and fourth dimensions in the past, but may have been using those terms in special connotations.

The Third Dimension (in my view) is the universe that is revealed to us by our senses, using at times instrumentation which could aid our senses (such as microscopes, telescopes, computers, various meters, etc). In general, this is a three-dimensional Cartesian-coordinate (Euclidian) universe as seen by our senses and thus it is the universe we all know - - - a wonderful universe of stars, planets, earth, people, animals, vegetation, etc. The time element here is related to our sense of past, present and future, and is governed by various 'clocks' in what we normally call 'civil time.' The vast majority of people view and live only in this third dimensional universe.

The fourth dimensional universe is the fundamental structure, ie., a substratum, which underlies the third dimensional universe. It is revealed to us only by our minds in conjunction with our senses and instrumentations. This implies that our minds may be non-corporeal and thus may function in a special version of the fourth dimension (or even higher dimension?). Thus, it could be compared to the terms of spirit or soul as used in many religions. However, the human brain may be looked at as a most sophisticated computer which is corporeal, but which can be programmed and controlled by the mind in the performance of various human functions, including possibly the study

of an esoteric subject as we have here; this is beyond the scope of this Note.

Rhysmonic Cosmology attempts to describe the structure of the substratum (aether) since it is not knowable directly by our senses. It is fourth dimensional, since, while it is yet describable by the three dimensions of Descartes, those dimensions are also directly interconnected in a universal time element, thus making it four dimensional in nature. It is also mechanical in nature and thus it is describable in terms of a Length (a distance), a Mass (particle), and a Time (duration). Therefore, L, M and T, as well as their many derivatives, could be used to fully describe such a fourth dimensional universe. I have attempted to do so in Rhysmonic Cosmology and the structure as revealed there has led me to many predictions as well as experimental verifications of the theory. While I limit myself here largely to the Title effects, I will also include some asides and connotations which elaborate on the theory, and these may possibly encourage some of you to become even more active in this research?

C. Rhysmonic Cosmology Basics

I will not describe Rhysmonic Theory in all its details here since that is available in my Monograph and many articles and Notes. [Also available in nearly 700 page collection, "Hodowanec's Rhysmonic Cosmology," ed. Bill Ramsay. See reference in "Introduction." :br] While this material is implicit in my works, I will include (here) some illustrations from the Monograph and point out more explicitly the nature of that rhysmonic structure which will enable energy extraction directly from that structure.

(1) Rhysmonic Structure

Rhysmonic structure, ie., the aether, consists of only a postulated extremely minute 'particle' which I now have termed a rhysmon (rather than originally a graviton, which is now used [by others: br] in many other contexts). This 'particle' forms a matrix structure which is the very fabric of our sensible universe. The matrix is fully describable in terms of Planck's Natural Units for mechanics, where: [Note: E-- is used to represent powers of 10: br]

$$\begin{aligned}\text{Mass} &= M^* \cong 2.177\text{E-5 gm} \\ \text{Length} &= L^* \cong 1.616\text{E-33 cm} \quad (\text{CGS units used}) \\ \text{Time} &= T^* \cong 5.391\text{E-44 sec}\end{aligned}$$

This matrix structure (as shown in my works) is essentially a "stationary" structure in that the unit cell of the structure is self-contained and cannot be broken up and be moved as in a fluid. However, it can be modified or distorted and therefore it could be considered as an elastic solid medium. This medium contains the sole intrinsic energy of the universe! However, that energy may be transformed into energy density variations (i.e., particles) and directed energy fluxes (ie., fields) which then become sensed in our third dimensional universe.

(2) Rhysmonic Fields

The rhysmonic fields (ie., aetheric fields) have certain characteristics revealed in Rhysmonic Cosmology which may be conducive to direct extraction of energy from them. Consider a planar section of this structure as shown in Figure (1). This is an 'instantaneous' snapshot of this structure, since the structure is, in reality, extremely dynamic. Two factors should be pointed out here: First, the structure has a linear aspect and also a rotary aspect, all developing from the short directed vectors of the basic cell structure. Second, the structure is also oscillatory with a frequency of about

1.855E43 Hertz [the inverse of T^* : br], which is the Planck Frequency f^* . (See my Monograph). The linear aspect results in the phenomenon of inertia (e.g., linear momentum), while the rotational aspects result in the phenomenon of angular momentum, also an inertial effect. The linear aspects are due to the short cell vectors joining head-to-tail, while the angular aspects may be due to circumferential vectors as shown in dotted-line form in Figure (1). It is important to note that some linear vectors (at a particular moment in time) are all in one certain direction and thus they are essentially scalar fields as defined by Whittaker. The circumferential (angular) vectors are also in certain directions at a particular 'instant' of time. The time considered here is Planck Time, T^* , but that time can be related to our civil time. Thus, a rhysonic universal frequency, f^* , is involved here which is $1/T^*$ or approximately 1.855E43 HZ, the Planck Natural Frequency already mentioned. This dynamic structure results in what I have termed as the universal G-field, and it is further defined by the constant, G , as determined in the Newtonian relation for gravitation. Therefore, this Universal G-field also defines the aether, but it should not be confused with g-fields which are due to a modification of the G-fields by the presence of particles (ie., masses) in the structure, e.g., the Earth. It is also not to be confused with the so-called zero-point energy flux (which in Rysmonics is postulated to be due to perturbations on the G-field (and thus g-fields) by such influences as novae, supernovae, and many other random fluxes generated by disturbed masses in the universe). However, G-field flux might be related to the so-called torsion fields? I will consider some of these aspects later in the energy extraction process.

Consider now the 'instantaneous' unit rhysonic cell structure as shown in Figure (2). Here the hexagonal aether shown in the planar depiction of the rhysonic structure in Figure (1) is seen in three-dimensional form. This is also very important as it shows that the 'instantaneous' scalar field in the aether might be simply summed by properly phasing interactions with locally generated scalar fields in the proper geometric form! This may have been done by Coler in his "magnetstromapparat?" More on this later - - -.

Consider now the simple universe linear vectors as shown in Figure (3). This was originally used to explain the origin of g-fields, which are the normally expressed gravitational effects. There I emphasized only a simple 60° planar reflection as would be 'seen' in a cross-section of the universe which cuts across the physical center of the universe. [Note: refer to the Postulates in the Introduction: br]. Recall that our underlying universe structure is essentially stationary in that each rhysonic cell is relatively 'fixed' in space. Therefore, we can speak of 'in respect to the aether' since this aether is in reality a fixed reference. Thus we have absolute space and absolute time as had been expounded on by Newton but which was denied by the Relativists! What I want to emphasize here also is that the linear vectors shown in Figure (3) are essentially 'instantaneous' vectors which are reflected from the edge of the universe by the unit vectors there acting essentially as 'loss-less pulleys'! This effect is [essentially: br] 'instantaneous' (in Planck Time) no matter at what angle or how many reflections are utilized! It also does not depend on position in the universe. This is a most important aspect and will be considered in more detail for the energy extraction process as well as many interesting other asides and connotations given.

D. Energy Extraction Mechanism

Before continuing here I want to digress a bit to explain what I mean by energy. Energy in a broad sense is the ability to do work. Energy is available in many forms since it is mechanical in nature and involves the motion (with respect to the fixed aether) of particles (or mass). Thus active energy is kinetic in nature and it basically stems from the intrinsic energy of the aether, where that energy involves the ever moving motion of rhyssons in closed 'orbits'. Active energy is given by $E = K.E. = mv^2$ as has been long known in mechanics. In the use of $K.E. = \frac{1}{2} mv^2$, the factor $\frac{1}{2}$ is a mathematical artifice used to simplify the more practical applications of K.E.. The intrinsic energy of the aether also is a scalar since it does not depend on the velocity of the particle (i.e., the rhysson) but only on the speed. Thus the intrinsic energy of the rhyssoid (ie., aether) is given by: $E^* = M^* C^{*2}$, or the more familiar $E = MC^2$, where "C" is the velocity (or speed) of light (Also all other EM, Electromagnetic, propagated actions such as Radio, X-rays, Gamma-rays, etc.: br) in the vacuum. Since C^{*2} in the undisturbed aether is a constant ($C^* = d^*/T^*$; where d^* is any distance and T^* is = $5.391E-44$ seconds.: br), the rhyssonic energy (E^*) is directly proportional to the rhyssonic mass (M^*) involved. Many (other) classical mechanical relations are also retained at the rhyssonic (aetheric) levels.

In the past I had emphasized the interaction of the scalar E- and H- fields with the known scalar earth g-field in possible energy extraction processes. Theoretical and experimental studies have led to the development of various 'gravity' detectors which then led to many applications, both terrestrial and astronomical. These will not be further considered here as there was much on this already released to you. [Note: The bulk of these previous "Cosmology Notes" and related articles and papers, including the author's 1985 Monograph "Rhyssonic Cosmology," are included in the compilation, HODOWANEC'S RHYSSONIC COSMOLOGY: br]. Some asides on this, however, will be considered in the next section.

Moreover, when McClain and Wootan released material on their Magnetic Resonance Amplifier (MRA) in December 1995, I immediately sensed that such a series-resonant system, driven by a low-level oscillator circuit, could be interacting with the earth's g-field in an energy extraction process. While I did not try to duplicate their actual circuit (I later got their L-C parts ["L", Inductance; "C", Capacitance; br]), I did try a quick test with parts and equipment I had on hand. These were low-level tests (very low-level: br), but fortunately the choices I made indicated that there was some power extraction noted in these tests. The use of a tube-type sine-wave generator, and the L-C components used, indicated a strong interaction at about 83.6 KHz, somewhat lessor interaction at adjacent frequencies, all of which were later determined to be sub-harmonics of the Universal Rhyssonic (Planck) frequency of about $1.855E43$ Hz! [$f^* = 1/T^* \approx 1/ 5.391E-44$ seconds.:br]. Many tests (only some were reported to you) indicated power gains. Some circuits achieved a self-sustaining action where the power gain kept the rechargeable cells [Radio Shack rechargeable alkaline batteries: br] powering the solid-state oscillator fully charged over several thousand hours of [continuous: br] operation. (Note: The power demands were such these batteries should have discharged!: br) These tests are still underway [since suspended: br] in various forms, but are now very sporadic. The aim here is to eventually demonstrate a true 'stand-alone' operating system. In due time, I hope to achieve that in one of the many proposed systems?

In the course of these early Mini MRA tests, some effort was made to orient at least the inductor to interact more directly with the earth's g-field. However, as tests went on, it was noticed that tests were good regardless of L-C orientations! Some further tests indicated that all interactions were independent of L-C orientations but were dependent on the proper frequency of operation for the particular coil unit. Again, it was noted that best performance was always at a subharmonic of the Universal Rhysmonic (Planck) frequency of about $1.855E43$ Hz.

Some of the more recent tests have not been properly documented or released to you. However, I am now becoming more and more convinced that the mechanism as proposed here is at the heart of all 'free energy' devices which were reported to have had significant power gains (eg., those which used coils and/or capacitors). I am also convinced that with proper research and development, systems based upon the methodology given here will form the basis for energy generation directly from the Universal G-field of this universe.

The universe as developed in Rhysmonics is a 'black body', ie., a closed system. Therefore, such energy extraction and use will only redistribute the essentially 'infinite' energy of the universe. That is, energy will be extracted, used in various ways, and then returned to the rhysmoid, ie., aether. Rhysmonics predicts the universe will remain to a large measure stable...no heat death and no cold death! The universe is essentially violent and some of that violence (eg., supernovae, etc.) should affect us here on earth.

I had predicted in December 1986 that violence in our Galaxy Center (as well as other effects introduced by that) would affect Earth's weather patterns for some time to come! The wild weather patterns in recent years may attest to that? However, locally, there may be another story if mankind continues to abuse our environment with unwise use of stored energy here on earth. Perhaps this Note may help some of you to dwell on this? [Note: The mentioned "violence" at the Galaxy Center was what Hodowanec had observed, via his techniques, as an apparent supernova 'event' when the stable 'ancient' black-hole type structure there, which he had been observing for 5-6 years, 'cannibalized' a nearby very dense structure; the added mass/energy of which may have precipitated what was observed. Following this likely supernova, a new and much denser structure (likely a black-hole) was observed complete with rapidly expanding accretion rings (debris from the super-nova). While continuing to periodically scan this region, he noticed in early June 1991 (now 10-11 years worth of scannings!) the new black hole was no longer there! For several days prior to this disappearance, he noticed increased 'violent' activity which may have been other 'explosive' type events leading to several new observed accretion rings. Could it be that Hodowanec observed what Hawking theorizes as the eventual "evaporation" of a black-hole...complete with the antecedent conditions? Continued periodic scannings of this region (the last in January 1998) by Hodowanec continue to show much 'debris' perhaps coalescing to form another black-hole? The "Gravity-Winds" continue to show a greatly increased level in the Universe Gravity-Wave Background (the G-field equivalent of the EM (Electromagnetic) UMBR; Universe Microwave Background Radiation?: br)

E. Some Asides and Connotations

In this section I will comment on some experiments and observations, by myself and some colleagues, as well as some experiments and observations by other researchers. This will be from the viewpoint of Rhysmonics and will be in no particular order...only as it comes to my mind.

(1) Gravitational speed vs. Light speed

The fundamental velocity (speed) in Rhysmonics is (represented by) C^* , the Planck Velocity. This is essentially the velocity of a single directed vector in the basic rhysmonic cell and it is equal to L^*/T^* ($L^* = 1.616E-33$ cm; $T^* = 5.391E-44$ sec; so $L^*/T^* = 2.997E10$ cm/sec = $C^* = C:br$) for a single directed vector in the finite Rhysmonic 'world' BUT also the velocity C of EM propagation in the macro 'world'. (Coincidence or theoretical evidence for the origin of the constant "C"?: br) It is to be noted that, in the Universal G-field, the velocity (or speed) of the gravitational flux is simply:

$$\frac{nL^*}{T^*}$$

where "n" is the number of unit vectors in the linear summation of the vectors, head-to-tail. For example, the single unit vector in has a velocity (or speed) of $1L^*/T^*$ or C^* . However, two (2) unit vectors (head-to-tail) would now have a velocity of $2L^*/T^*$, or $2C^*$; three vectors, $3L^*/T^*$, or $3C^*$, and so on. Put another way, gravitational effects are 'propagated' any distance in the same time frame of T^* ! This factor is most important in understanding the unity (the oneness) of our universe, and especially in gravity 'signal' astronomy. This is also a most important aspect when deep space communications are needed!

With respect to the velocity of light (ie., EM waves), while the velocity " C^* " (or " C ") is involved, the situation is quite different. The 'propagation' of gravitation is a linear effect or a longitudinal (straight line) 'wave' of 'infinite' length and thus more aptly termed a gravitational 'impulse'. Light or electromagnetic waves (ie., EM waves) are a transverse effect where repeated reversals of the polarity of the electric and magnetic components occur in the propagation process. The electric (E) and magnetic (H) components are actually 'sustained' by the Universal G-field. This involves a time component of " T^* ", which is independent of the frequency, wavelength or amplitudes involved in this process. Also, the field reversals (of E- and H-) can take place only in the time frame of " T^* ", since this is also the existence time frame for the universe. Therefore, in the case of EM wave propagation, the rate of propagation will be this constant velocity (or speed) of L^*/T^* or " C ". This holds only in the undisturbed aether where " L^* " and " T^* " are constant. However, in the presence of other 'particles' or 'fields', these constants could change and thus the velocity of light (ie., EM waves) would also change. There is much more to be learned here...I have some unreleased material on this.

(2) Position in the Universe

Since in Rhysmonics the universe is but a 'fixed' collection of rhysmonic cells, it will have a physical center in this spherical collection of cells. The physical center can be expected to have a very high density of structures very much as most galaxies appear to have. In fact, several Gravity 'signal' tests made here seem to show two or three extremely dense 'objects' in the direction of Leo, which also appear to be moving quite rapidly about each other in a common center of gravity. This could well be 'black-hole-type' structures in the suspected physical center of our universe. Such a third dimension universe would have other connotations, some of which I have observed but will not relate here.

Of more interest to you could be another aspect of this type of structure from the viewpoint of our third dimensional universe. Consider a man located at any point on the 60° angle of the universe-wide 'instantaneous' vector shown in Figure (3). If that person had Gravitational field 'eyes', he would be able to 'see' the back of his head 'instantly'. This would also be true

at any position in the universe and at any angle what-so-ever he made with respect to that center.

While mankind does not have Gravitational eyes, mankind does have a mind which has so-called 'free will'. Therefore, a person can make a physical movement of a mass (at will) and thus affect the universe-wide 'instantaneous' in any direction and therefore also affect the inertia of the rhysonic field in that direction. The rhysonoid (aether), being a perfect 'machine', will reflect geometrically from the edge of the universe in numerable reflections and then return 'instantly' to the moving source mass making this disturbance at that point. One can look at this effect as being a rhysonic 'clothes line' with loss-less pulleys. (See Figure (3)). Thus a pull at the front of the mass will result in a push (at the same time) at the back of the mass. This process is involved in any mass movement or field movement in the universe.

Fortunately, we now have rhysonic (aether) movement detectors (i.e., gravity detectors) capable of sensing changes in the Universe G-field, primarily as it affects the earth's g-field. Use of the earth's g-field in this detection process results in a sort of fine tuning where we will observe only those effects which are in line with the earth's g-field. Fortunately also, we have been able to test this hypothesis. Since the earth is rotating on its axis, any new disturbance (controlled by free will in a definite pattern) will 'modulate' (create an interaction with: br) the universe-wide vectors and thus be detected by these g-field detectors; primarily as a 'chopping disturbance' of an apparent (approximate) .25 cm 'standing wave structure' in the aether (believed to be due to a summation of all the other mass disturbances in the universe).

Now, if this disturbance is coded in some fashion, say as 2 Hz pulses spaced 30 seconds apart, then the aether at that location will be disturbed at the rate of the earth's rotation. This disturbance will be sustained by the Universal G-fields, but will eventually be destroyed or weakened by other Universe G-field actions. [Note: Likely not a 'decaying' but more like being overridden or 'swamped': br] That this appears to be so was demonstrated in many so-called pendulum tests and other tests reported to you in the past. This is the so-called mass movement test (movement with respect to the 'fixed' aether). It is believed that Tesla saw this effect in Colorado experiments using lightening (and thunder?) as the disturbance source. However, his detection system (at the turn of the century) was rather crude [i.e., insensitive: br]

As some of you know, I used this principle in some gravity 'signaling' tests using Morse Code mass modulations more than ten years ago. I was able to (tape) record the code modulations up to 20 miles away! [At his home, Hodowanec connected the output of his detector to a tape recorder. Then he got in his car and slowly drove straight away sending 'mile markers' at various distances by moving, in pendulum style, a several pound lead weight held in his free hand; thus forming the dots and dashes of numbers corresponding to distances: br]

However, colleague Bill Ramsay was able to demonstrate a far more elegant test using field movements instead of mass movements. Basically, Bill used the oscillator mode of my gravity detectors to generate a modulation of the universe wide G-field vectors at his earth location. The modulations were most likely provided by the inductors of the oscillators. [Clarification: The 'oscillators' were R-C type, no inductors, but the outputs were connected, through a low-power audio amplifier, to the 'inductors' of several speakers.

Thus inductance was involved: br] Bill modified the oscillators to have a desired decay time and tuned a number of oscillators to a musical scale. Thus, his 'signals' were musical tones. Bill provided his oscillators with a keyboard and summed (mixed: br) the outputs to an ordinary audio amplifier. Thus, in effect, he had a Cosmic Organ! When Bill played a simple 'tune' on his cosmic organ, the inductors [in the speakers: br] would 'modulate' the G-fields at his location. Now since the earth was rotating, the ditty or tune was stored in time in the aether in the process discussed before. Now when Bill ceased his playing, the universe would keep on 'playing' his tune! Much as in the other (Gravity-wave) universe modulation tests, it would do so for hours (although Bill tape recorded the play back for only 90 minutes or so). Eventually, the high notes would distort, but the main range of about 100 Hz to 1 Khz in the scale would remain relatively unchanged. Of course, the universe contains other responses in this range which would tend to weaken or destroy his modulations; but Bill has recorded many hours of the universes own 'melodies' in his particular location.

Another aspect considered here is in respect to EM responses in the aether, especially those of visible light frequencies. It had been pointed out in rhysonics that the universe is a finite spherical 'black body' with perfect reflection at the edge of this universe. Thus all persons on the inside of the universe could consider the inside edge as a perfect spherical mirror! It is speculated that as such, any position in the universe could be considered as the center of the optical universe! This could have many connotations, but one which I already used (in other writings: br) was to use this concept in explaining quasars

(3) Rotational fields in the aether

In the planar depiction of the pure (undisturbed) aether shown in Figure (1), it is seen that linear and rotational forces are fundamental to the structure of the aether. However, due to the presence of some other forces, primarily field movements (due to mass movements or mass 'shadows') there will be introduced curvilinear motions or other distortions in the aether. Here I will mention only some rotary effects due to rotational forces inherent in the aether.

Rotational effects are rampant in the universe but all can be related to the basic elements as shown in Figures (1), (2) and (3)! For example, the earth 'rotates' on its axis, the moon 'rotates' around the earth and the earth 'rotates' around the sun. Spiral galaxies are in 'rotation' about a common center and probably families of galaxies 'rotate' about a common center also. Perhaps even the universe is in 'rotation' but that would have to be relative to possible other universes somewhere out there? All this is on a large scale, but microscopically, 'rotation' is rampant also. For example, rhysonics postulates that for a particle (which is but a collection or arrangement of rhysons) to move relative to the 'fixed' aether, the particle must be a vortex in that structure. The movement is made only by transferring linear and rotational forces to adjacent basic cell structures, since the basic cells are not able to move as entities in themselves! Therefore, while the basic structure is quite simple, other forces and structures in this basic medium can be quite complicated! However, in this Note I will point out only a few of the many observed phenomenon in our third dimensional universe which can be explained with the four-dimensional rhysonic viewpoint.

All energy (E*) in the universe comes basically from the short unit

cell vectors as shown in Figure (1). Here,

$$E^* = M^* C^* \approx 2.177E-5 \text{ gm} \times (2.997E10 \text{ cm})^2 \approx \underline{1.96E16 \text{ ergs.}}$$

Also,

$$E^* = A^*/T^* = \text{action/time} \approx 1.054E-27 \text{ erg-sec}/5.391E-44 \text{ sec} \\ = \underline{1.96E16 \text{ ergs.}} \quad (A^* = \hbar ; \text{ Planck's reduced constant})$$

In a similar manner, the momentum (P^*) of a single directed rhysonic vector is,

$$P^* = M^* \times C^* \approx 2.177E-5 \text{ gm} \times 2.997E10 \text{ cm/sec} \approx \underline{6.35E5 \text{ gm-cm/sec.}}$$

while the force (P^*) of this vector is,

$$P^* = E^*/L^* \approx 1.96E16 \text{ ergs}/1.616E-33 \text{ cm} \approx \underline{1.21E99 \text{ dynes!}}$$

In the 'undisturbed' aether these energies are essentially cancelled [in 'balance'?: br] in the aether structure and thus are not normally seen or available in our third dimensional universe. Yet the basic cell structure contains a tremendous amount of potentially available energy. Rhysonics appears to show that only a small amount of external perturbation energy may be needed to make that energy available to us in the third dimensional universe! While this energy is being 'extracted' in innumerable ways in both science (eg., technology) as well as in life forms (eg., bionics), I will mention only a few items of rotational force effects from technology. Angular momentum effects

Angular momentum in our third dimensional universe is best noted in the so-called 'fly wheel' effect. This is well studied in conventional mechanics in terms of the practical flywheel, the gyroscope and many other rotary devices. Here, I will try to simply explain the mechanism in terms of rhysonics. While in our third dimensional universe we see an actual rotation of a physical mass within the reference frame of a room, this rotation is actually in relation to the 'fixed' aether! Moreover, the 'fixed' aether is not in actual rotation, only an energy effect is being added to the short directed vectors making up the aether structure. The energy is actually being added to the circumferential vectors for these rotational effects. Should we move our reference frame such as to a car, a plane, or a ship, the energy storage in the flywheel (or gyro) will also move through the 'fixed' aether but the same energy transfer process still exists. Therefore, rotational forces can store large amounts of energy in the directed vectors of the aether. However, this stored energy is but a tiny fraction of the energy available in the basic rhysonic directed vector.

Another interesting aspect here is if the flywheel (which could be the rotor of a motor) is kept in a fixed position in fixed reference frame (e.g., a room) the aether storage effect will persist for some extent in time even if the flywheel is slowed down or stopped. When start-up is performed reasonably soon after stoppage, it should be able to re-start the rotation at much lower drive [energy] levels! Is this the "Aspden Effect?" It should be remembered that such persistence of motion (ie., inertia) is typical of our rhysonic universe and it is sustained by the Universal G-fields.

That such rotational effects are with respect to the overall universe 'fixed' aether is verified in many third-dimensional tests; e.g., gyro compasses, the Foucault Pendulum, as well as numerous flywheel-type tests. The miniature 'flywheels' in permanent magnets and various bionic functions seem to affirm these postulates. It would be interesting to investigate the homopolar generator from this viewpoint. Rhysmonics does appear to confirm such linear and rotational energy effects in many experiments, reported and unreported! There is room for much research here! I have released much information on these aspects in the past.

4. Miscellaneous other asides

In this section I will remark on certain items which reflect on the rhysmonic approach to the nature of our universe. I will include not only items of mine but also a few developed by other researchers in the literature.

(a) Relativity in rhysmonics

Theories of relative motion have been around for hundreds of years but the Einstein version developed around the turn of the 20th century is probably the most published (and thus known). In rhysmonics, relative motion is quite simple - - - it is motion with respect to the 'fixed' (ie., stationary) aether! I have already considered some aspects on this but will elaborate a bit more for here. We can determine this relative motion by comparing the motion in a frame of reference which moves as a unit through the aether. Such a frame is expressed in a location which has no apparent motion, such as a room or laboratory area. Here, the area is really in motion with respect to the aether. However, that motion would be only apparent to another observer, say one on the sun where the motion of the earth in its journey in space, including its rotation, would be readily noted. But locally it is a fixed frame of reference (i.e., Galilean) to an observer in that lab [or room] location! However, any other additional movement in that area will be, in fact, a recognizable motion through the 'fixed' aether.

This has been verified in many of my rhysmonic experiments. Simple experiments which were observed many times in the past also demonstrated this. For example, a [an electrically: br] charged item at rest in this lab [or room] frame of reference will have only an observed so-called static charge. However, if we move this charge in relation to this reference frame [and charge sensing device], the charge will also be moved with respect to the 'fixed' aether! Now, at least two responses will be observed: (1), the moving charge will develop a linear flux field movement which can be detected in a number of ways. (2), The moving charge will also develop a rotational flux field movement which, while more difficult to observe, is also observed with more specialized test methods.

Another experiment is in the traditional magnet and coil test. Here it did not matter if the magnet was moved or the coil was moved - - - induction currents in the coil developed! This was due to the fact that a relative flux movement was involved in either case, and it is that which causes electron 'flow' in the coil. Therefore, in rhysmonics, any real movement within the 'stationary' aether will result in effects which can be observed with the proper instrumentation. This [understanding: br] is fundamental in rhysmonic theory.

(b) Casimir Force in rhysmonics

There is much in the literature on this 'effect' which appears mainly as a closing or 'attractive' force between two closely spaced metal or other high density plates. While current emphasis is on EM forces or zero-point

energy forces, rhysonics postulates this to be just a gravitational effect, due to the geometry of the test elements. The source of the force here is the Universal G-fields! Due to the geometry, these Universal G-fields are 'shielded' largely in the direction normal (orthogonal [i.e., at right angles to the plane of: br]) to these plates, and very little shielding is present in the transverse direction to these plates [i.e., in the same plane as: br]. This is the normal g-field effect, similar to that between the earth and a body near its surface. However, again due to the geometry, the so-called Casimir Force is quite detectable in the form that most of these tests were made. However, as seen here, this force is gravitational and not any new force in nature!

(c) Charge clusters in rhysonics

I do not have too much background in so-called charge clusters (as mentioned by Shoulders and others) but I do have some doubts that 'clusters' of electrons are involved. From the rhysonic point of view, such massive charge 'clusters' may exist, but that they are super particles, being much the same as electrons and protons are (in rhysonics) as densely packed or loosely packed rhysonic 'clusters'! Perhaps these 'clusters' are vortices in nature and thus stable to some extent and even may carry an excess 'charge'. To be negative in charge, the Shoulder's 'cluster' would be essentially a large 'hole', so-to-speak, in the aether. Again, all this is only conjecture on my part as, at this time, I have not really looked at the reported 'charge clusters' and their effects.

(d) g-fields and weather patterns

I had predicted that our earth was due for an extended period of unusual weather patterns ever since, in December 1986, dramatic changes were noted at our GC (Galaxy Center). Since then other changes were noted at the GC and also other areas of our universe using gravity 'signal' astronomy techniques. These changes are believed to be due to gravity winds, i.e., motional aetheric fields! Recently, January 6th to 9th, 1999, it was noticed that in using an ordinary electronic weight scale as a gravimeter, that there was a relatively good correlation between my weight variances and the positions of the northern jet stream. For example, my weight is nominally 163 pounds. Yet, in that time period, where weather patterns were crazy, my scale weight varied between 150 and 170 pounds! It should be emphasized here that the scales must be of the Hooke's Law type, i.e., springs [or 'load cells' but not balance types: br] are used. In general, my weight was 150 pounds when the northern jet stream plunged down as far as Alabama and Florida and 170 pounds when this jet stream was far north in Canada. [That's a 12-13% change! Can this be accounted for, 'rationalized' away, by any combination of the 'usual' mundane factors?: br]

Apparently, some effects in space were causing gravity winds which affected our g-fields here on earth and thus the jet stream (and our weather patterns)! I had reported on this many times in the past, but this is the first time I noted such good correlations. This is an easy test for you [Any of you, 'scientist' or not!: br] to try; many of you may have such electronic scales and jet stream patterns are given daily in most TV news programs [and in some newspapers as well: br]. It appears to be real here, but verification by others would be nice!

F. Conclusions

I wish to re-state that the purpose of this Note was to convey to you some additional thoughts of mine and also to clarify some earlier thoughts

released to you. I again apologize for the roughness (i.e., crudeness) of this presentation. However, I hope it was of some interest to you. While I will be a hiatus to some extent from now on, I will not cease this effort - - - it will only be more sporadic and less thought out. As always, my reports to you are not intended to be dogma but only as an effort to try to hold your interest in this cosmology, which I strongly believe has merit for more investigation by others. Good theorizing and experimenting to all!

Epilogue

As you know all my efforts and writings are placed into the Public Domain and thus are available to all to use as they see fit. Now in this so-called information age, with the Web, Internet, and various BBS's on line, there may also be some mis-information and dis-information circulating. In particular, I am Greg (Hodowanec), Sr. and now in my 78th year of life. There is also a Greg, Jr., but he should not be confused in any way with this effort; it is mine alone. The problem with the computer is that it cannot think - - - it only 'knows' what is programmed into it. Thus, all that is programmed in is not necessarily true to the real facts or even identified properly. Take care Please! [Amen!: br]

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