

then see how a chemical laboratory bench experiment can involve energy input on a scale that can create hydrogen atoms, meaning creation of matter according to the equation $E = Mc^2$.

However, I have engaged in a little speculative enquiry and taken note of the factor posed by the metal flakes of Dr. Rowe's own experiments and the metal electrodes of the other experiments he has in mind. I asked myself how a piece of metal, that is electrically conductive and of higher mass density than its immediate environment, might cope with the cosmic motion through space in requiring the aether to adapt its graviton system to the presence of that metal.

Note that a unit of mass that is part of an element of matter moving through the aether will have an inertia not shared by the corresponding unit of mass in the graviton system. The gravitons are part of a leptonic underworld that governs quantum mechanics and they are created where required from the energy of the aether. The passage through space of a piece of metal will involve the creation of gravitons at its forward surfaces and the corresponding demise of gravitons at its receding surfaces. In short, this poses the interesting question of how gravitons shed their energy in their decay mode. It is a question I have not addressed until now [February 2003] but one which captured my attention when I asked myself how many graviton groups, those two τ -gravitons plus one g -graviton, would be needed to create protons with a negligible energy surplus, given a decay stimulus, the input of a virtual muon on one of those τ -gravitons by which it exchanged polarity with the muon and so could engage in pair annihilation with its associate τ -graviton.

This becomes a question of how many units of $3485+3485+5063+207$ are needed to create an integer number of proton-antiproton pairs. I was then surprised, indeed very surprised, to find that only three such units, totalling 36,720

electron mass units would be needed, as this is exactly 20×1836 , 1836 being the proton-electron mass ratio.

Now, do bear in mind that this diversion is a speculative exercise, but consider too the implications in the light of Dr. Rowe's experimental findings. I was intrigued and so I took the analysis further. Dr. Rowe had measured the volume of gas that had appeared anomalously in his discharge experiments. It was only a few cc. at atmospheric pressure and so I wondered how I might account for that.

My thoughts were on the possibility that the creation of protons and anti-protons at the receding metal surface could capture electrons from the metal and so create hydrogen from the protons, whereas the anti-proton might even combine with the nucleus of a metal atom and change its isotopic character. In a sense this is creating matter from the aether by stealth, but one has cause to wonder given the anomalous atomic transmutations that are reported to occur in so-called 'cold-fusion' experiments. I have in mind here the paper by David Moon entitled '*The MODS Theory of Cold Fusion can explain Lungsten Cathode Plasma Electrolysis*' that was published in the Volume 8, Issue 47, 2003 of the periodical '*Infinite Energy*'

In any event, with the problem of estimating how much hydrogen gas might be created per sq. cm. of metal surface by graviton decay still in mind, I reasoned that we move through space at a cosmic speed of some 3.5×10^7 cm/s and I was able to put a rough figure on the lifetime of the gravitons and so could proceed. I quote from my paper '*An Empirical Approach to Meson Energy Correlation*' that was published in '*Hadronic Journal*' **9**, 153-157 (1986):

"The one direct indication which the author has seen arises from the likely possibility that the decay of the tau and the decay of the g-particle may be associated. The tau has a lifetime of 4.6×10^{-15} s and

falls in a class of particles discussed by J. D. Prentice [*Physics Reports*, **83**, 102 (1982)] as “in the 10^{-13} s range”. One such reported decay time was 10.69×10^{-13} s for the “longest-lived entry ... giving a fitted mass of 2583 ± 26 MeV c^{-2}” This might be direct evidence of the $g(2587)$ particle.”

Multiplying a lifetime of this order by that cosmic speed one finds a range of a few hundredths of a micron. Then taking the mass density of the metal times this as a measure of the mass of hydrogen produced per square cm of metal surface per discharge event we expect hydrogen gas at atmospheric temperature and pressure to be of cubic cm order, as Rowe found.

Accordingly, I do think we need to take Dr. Rowe’s claim seriously and see that he has discovered a way of generating hydrogen from the aether. Whether or not this could be developed into a new source of power depends upon the energy involved in setting up those electrical discharges, but at the very least research confirming his findings will surely be research proving that a real aether of the kind envisaged in this work does exist. Such research could include testing the composition of the hydrogen produced to see if it contains the normal percentage of deuterium. Newly created atomic hydrogen should not be contaminated by the presence of the deuterium isotope. Such a finding would confirm Dr. Rowe’s claim that hydrogen is being produced *ab initio* rather than being absorbed somehow from the chemical environment of the test apparatus.

In conclusion, I feel obliged to draw attention to the fact that the generation of hydrogen from the aether, if pursued on a large scale, could, in the long term, be destructive of life on Earth because our oxygen supply is limited and by creating water as we burn up our atmospheric oxygen resource we merely add a few

metres to the levels of our oceans to leave us with only nitrogen to breathe. Some other energy resource is needed and that brings me to our next and final topic of discussion.

Vacuum Spin as a Prospective Energy Technology

The aether was shown in chapter 8 to have properties conducive to what was termed 'vacuum spin', this being the basis on which stars and planets acquired their rotation and much of their kinetic energy. In this final discussion section I now give my reasons for thinking that, by exercising a little ingenuity, we might be able to tap energy from the aether by replicating in laboratory apparatus the conditions which govern the vacuum spin phenomenon.

This account which now follows is the unamended text of a paper I presented in Berlin on June 14th, 2002 to an audience interested in alternative energy techniques. Since it was compiled before this work: *'The Physics of Creation'* was written it will, so far as concerns the vacuum spin theme, be somewhat repetitive, but I thought it best to leave the text of the paper unamended. It now follows as a conclusion to this chapter 9.

OUR FUTURE ENERGY SOURCE: THE VACUUM

A Scientific Introduction

Whilst oil companies scan ocean beds in search of future drilling sites by which to replenish our dwindling energy resources there seems to be little or no interest in looking for energy within the omnipresent vacuum medium which exists everywhere, both here on Earth and in outer space.

The reason, of course, is that scientists do not recognize the vacuum as a source of energy. They tell us that the vacuum is, in simple words, a mere 'nothing', but yet they teach by reference to textbooks which declare that the vacuum has a magnetic permeability expressed as μ_0 , of value $4\pi 10^{-7}$ henries per metre and a permittivity $1/\mu_0 c^2$ of $8.854187817 \times 10^{-12}$ farads per metre.

How can the vacuum, as a medium devoid of matter, be said to have such curious properties if it is a mere 'nothing'? Consider what we mean by that word 'permittivity'. It tells us how much energy we can store by setting up a voltage between two metal plates in a vacuum. That energy sits in the vacuum - not in those metal plates! The vacuum has a way of releasing that energy when that voltage is reduced and that mysterious quantity we call 'permittivity' governs that action.

Note now my point that a magnetic property is also involved owing to that μ_0 term, as is c , the speed of light. Magnetism is basically a dynamic action arising from electric charge in motion and motion implies energy. The vacuum, that mere 'nothing', also somehow determines the speed of light c , a factor in the famous energy equation $E = Mc^2$, and yet scientists ignore the vacuum as a potential source of energy. There is indeed much they have to learn about this aspect of Energy Science and I intend here to summarize this in four stages.

In the first and third of these I will point to free energy technology that has been demonstrated. In the second stage I will outline the physical principles involved and in the fourth stage I will conclude my message by reminding you that our universe had to be created from energy that apparently came from nowhere and cast some light on that great mystery.

I. Capacitor Magic or a Mere Dream?

I want you to imagine that you have discovered an electrical capacitor that you can charge with energy and which, on discharge, gives you double that amount of energy as output. It is as if you can perform magic, though you are merely dreaming.

How would you turn this into a practical device? The problem you face is that the capacitance is quite small. Let me tell you how I would do it.

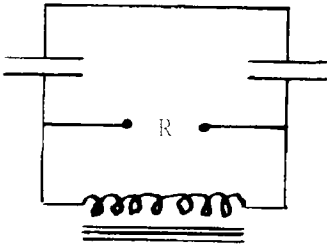


Fig. 1

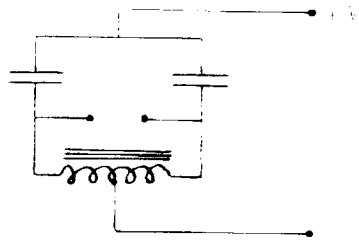


Fig. 2

I would connect two identical capacitors through an inductive circuit to form a resonant system and let the energy oscillate between the two capacitors, as one discharges whilst the other charges. I would draw power off, as, for example, by incorporating an electrical load denoted R in the Fig. 1.

Now, the chances are, that if I built such a device it would not work because of that low capacitance property and the energy loss owing to the resistance of the inductive circuit. So, exercising my ingenuity, I would connect a high d.c. voltage V to the capacitors (see Fig. 2), knowing that this additional source could not deliver energy continuously, once I had switched the

device on. The reason is that d.c. does not flow through capacitors.

For a high enough d.c. voltage this would, as I can verify by basic electrical theory, have the quite remarkable effect of making the energy oscillations escalate in strength sufficiently to overcome the resistance loss problem. I would then surely have a working 'free energy' device.

If I did not use that high voltage d.c. polarizing source then there is still the possibility that I could get a self-sustaining oscillation and draw as output a small amount of 'free energy', but only if I made sure that the inductors were quite large and wound from thick gauge wire so as to have a very low resistance.

Can solving our future energy problems really be so simple? It is such a wonderful dream, truly magical, but we have, of course, to live with reality and here we need to face up to the facts of life. Can such a capacitor property ever be a reality? As to facts, I have several examples in mind, three of which I now mention.

Firstly, as long ago as 1871, there was a U.S. patent granted which comprised two cross-coupled inductive components each having two concentric windings separated by insulation and so constituting, in effect, a capacitor which could develop a resonant oscillation with the inductance of the other cross-coupled component. Fig. 3 is a copy of Fig. 2 of that patent. The introductory paragraph of the patent specification stated that the invention:

'relates to the combination of two or more simple or compound helices and iron cores or magnets in such a manner as to produce a constant electric current without the aid of a galvanic battery'.

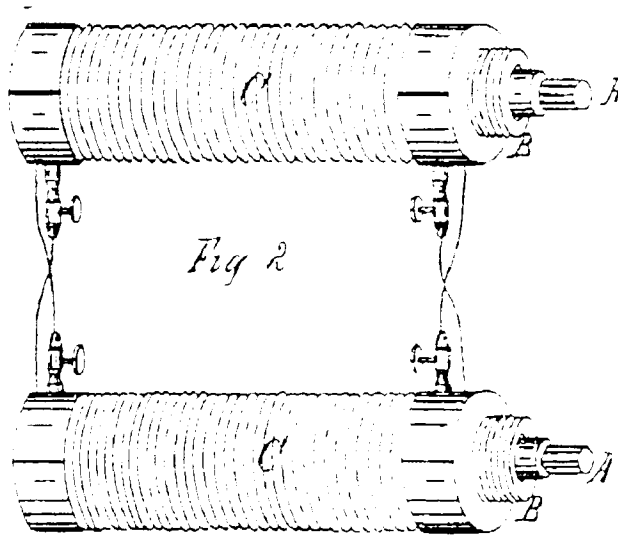


Fig. 3

Here then in 1871 was U.S. Patent No. 119,825, as granted to Daniel McFarland Cook of Mansfield, Ohio, telling us how to build a device which somehow generates electricity with no evident power input source. Here I see a device in which electric charge can oscillate between the two components and somehow generate a steady excess of output energy which is supplied by the windings on those two inductive components. Here there was no priming d.c. high voltage input source, but large gauge wire was specified as essential for the inductive windings.

These were very early days in the history of the electrical power industry. Thomas Edison was only 24 years old and Nicola Tesla was 15 years of age at the time, so it is no wonder that this very important invention was buried in Patent Office records.

Secondly, there is the almost incredible story of the efforts of Dr. Henry Moray. It was reported that on 21 December 1925, Moray and three others, who went along to witness what was to be demonstrated, took a trip to a canyon in USA which was well

removed from any electric power lines. A wire antenna was strung between two points well above the ground and connection made from the antenna to Moray's apparatus, which itself had a ground connection. Electric power was delivered as if from nowhere. It was said to be powered by 'radiant energy', energy somehow delivered via the aether, but in spite of repeated demonstrations, some delivering substantial power measured in kilowatt terms, Moray's discovery, notwithstanding our developing hunger for a new energy source, has not found its way into modern technology. The reason, of course, is incredulity on the part of our learned scientists plus lack of insight as to the true energy source.

A description of the Moray device by T. J. Yates of Cornell University, dated 16 March 1929, says that, in the demonstration he witnessed, two wooden boxes were placed on a table. On one box there was a high-frequency transformer and in the other box there were ten large capacitors and ten small capacitors, these all being connected by wires in a circuit including the antenna. One can see, therefore, that somehow it is possible to set up a resonant inductor-capacitor circuit which can deliver aether energy with the help of an antenna placed well above ground level in open air which delivers that high d.c. input voltage but not the steady input power needed to explain what was observed.

It is, by the way, experimental fact that atmospheric electricity exists everywhere in the open air and has a vertical voltage gradient of several hundred V/m. It is caused by solar-powered thermal radiation exerting a downward pressure on electrons in the atoms of our atmosphere. Of itself, this is not a useful source of power but, as the Moray apparatus shows, it can serve as a priming agency in setting up the operating charge on those capacitors.

Thirdly, there are the reports on the 'free energy' apparatus of the Methernitha community in Switzerland. They have an electrical generating machine they call Thesta-Distatica. It produces a substantial output of electrical power. Its main features are inductive coils connected to a pair of glass Leyden jars plus an electrostatic generator that we in England call a Wimshurst machine. When the discs of that Wimshurst machine rotate high voltages are generated and the pulsed output somehow activates the energy-generating properties of those two Leyden jars. A Leyden jar is merely a capacitor having concentric cylindrical electrodes, one on the outside and one on the inside of that glass jar. Here also we have two capacitors in an oscillatory circuit and a d.c. source that can supply high voltage but very little energy. Yet, somehow those capacitors can tap aether energy and generate electricity which serves that Swiss community.

I believe we have here a situation where there is skill and knowledge in that community as to how to build this 'free energy' device, but I feel sure that no one there understands the physics that can explain where the energy that is generated really comes from.

An extensive account of both this Swiss discovery and the story of Henry Moray's efforts is provided in a recently-published book by Keith Tutt entitled 'The Search for Free Energy', published in 2001 by Simon & Schuster (ISBN 0-684-86660-9).

II. The Physics of the 'Magic' Capacitor

All physicists have heard of Clerk Maxwell and Werner Heisenberg. Some few may have heard of Alexandre Veronnet. Maxwell's name is associated with electrical displacement within the aether (the medium we refer to as the 'vacuum'). Heisenberg's name is linked to quantum mechanics and the Principle of Uncertainty by which matter has an underlying jitter motion as if

sharing a universal circular motion in tiny orbits at the very frequency physicists associate with the creation of the electron. As to Veronnet, he has also a place in history. On December 16, 1929 the French Academie des Sciences conferred the Henry Poincare medal on Louis de Broglie for his work on wave mechanics, but on that same occasion Veronnet was presented with the Prix Lalande for his works in astronomy. The point I want to make is that Veronnet saw the aether as having electrical structure and an underlying quantized angular motion akin the that we learn of from Bohr's theory. Veronnet realised that jitter motion in the aether could perhaps explain why electrons in atoms have a quantized angular momentum, that is, why they have specific energy quanta linked to their rotation.

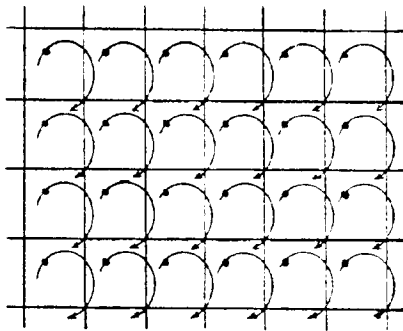


Fig. 4

So, as I see it, it is quite logical that we should be influenced by the perceptions of these three great men of science and begin to portray the aether as I do in Fig. 4 which I copy here from page 89 of my 1980 book 'Physics Unified' (ISBN 0-85056-009-8). Here I depict the vacuum as having a cubic structure, a state of order of the kind we see in crystals or in the magnetic domains of a ferromagnetic material. In each notional cubic cell there is an aether particle describing a circular orbit

with all such particles keeping in step in a synchronous motion. They all have the same electrical polarity and are immersed in a continuum of uniform charge of opposite polarity and are attracted to their respective centres of those cubic cells, but are displaced from those centres to radii at which their mutual electrostatic energy avoids being negative. Therefore they must move in orbit to assure that their centrifugal force is in balance with the electrostatic force attracting them to the centres of those cubic cells. It all sounds very hypothetical, but I can assure you that this model of the aether holds the key to solving the prevailing mysteries of physics, and it is unquestionably correct.

However, here my subject is concerned with capacitors and their 'free energy' potential and I must not digress into other fascinating realms of fundamental physics. So let us now consider a parallel plate capacitor sitting in the aether as just portrayed. I refer now to Fig. 5.

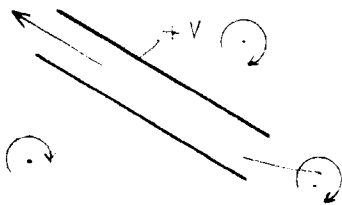


Fig. 5

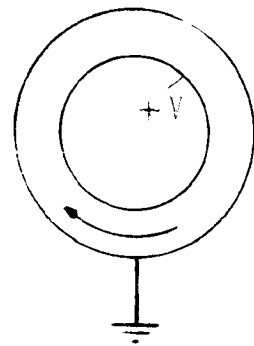


Fig. 6

When I asked myself what happens when an electric voltage is applied between those two capacitor plates I could see that the aether charges would all be displaced in unison relative

to the centres about which they are in circular orbit. Then I could see that they could not keep strictly in synchronism with their counterparts elsewhere in nearby space unless they were subject to a continuous very high frequency oscillation of energy exchange, something I felt was impossible. Then, and by 'then' I mean nearly 50 years ago, I saw how Mother Nature deals with this problem. If that applied voltage has a two-fold effect, in that it displaces the aether charge in the direction of the electric field to a new equilibrium position but also produces, between the capacitor plates, a continuous motion of that charge at right angles to that direction, then there can be absolute synchrony with external space charge with no high frequency energy exchange problems. In Fig. 5 the centres of the charge orbits are indicated and one can see that charges seated between the capacitor plates have an eccentric orbital motion and so their velocities in orbit need to be compounded with a superimposed velocity in order to keep in synchronism throughout their orbital period. This means the whole structure of aether particles must acquire a linear motion in the space between the capacitor plates, a motion which increases as the voltage between those plates is increased.

In other words, I could see that one unit of electrical energy added to charge the capacitor would be supplemented by a further unit of energy accounting for that linear motion and it would be supplied by the external quantum jitter of the aether, since it was the external aether that was applying the constraint that assures the universal synchrony. Here was the 'free energy' source but the extra energy was locked into that aether motion and, as soon as the capacitor was discharged, that motion would collapse and dissipate the energy within the aether itself as it recovers and sustains its equilibrium.

What I have just described applies to the parallel plate capacitor but even back in the late 1950 era when I was researching on these matters I knew that that aether motion

