GETTING TO AND AROUND GERMANY:

With 16 international and 14 regional airports seamlessly interlinked with a 40,000 kilometres of railway network and 11,000 kilometres of motorways.

Germany indeed offers excellent travel connections throughout.

Yes, from my own experience upon both rail and road in Germany I found that there are similar problems when you arrive at the boundaries of cities, like the UK it drops to crawl or die for ages before you can get going again.

I agree that Deutsche Lufthansa’s extensive air network extends to over 330 cities in 90 countries.

Lufthansa, a Star Alliance™ member, also offers access to 19 member airlines schedules and discounted fares worldwide.

Conventions Plus is a Star Alliance™ service that also helps make organising and attending conferences much easier.

The Deutsche Bahn German railway network is reliable, safe and comfortable.

High speed Intercity Express (ICE) trains connect all major German cities, e.g. Frankfurt and Hamburg of Frankfurt and Munich in just under 3.5 hours.

Express trains also connect, e.g. Frankfurt (ICE) with Paris in 3.5 Hours.

Frankfurt with Cologne: in 1 hour 20 minutes.

Cologne (Thalys) with Paris in 3.5 hours.

Cologne (ICE/Thalys) via Brussels (Euro Star) to London in 4 hours 50 minutes.

I will close this update on the world of reality that represents the Truth upon the technology now in existence; which Searl International Space Research Consortium must equal or better than these figures to capture any of the world market places.
At a day demonstration of the Searl Effect Technology before 400 visitors which were mostly from the scientific community, who appear to been able to bring reporters along for the show.

As various visitors tested the bar and roller set: to try to assess how and why it worked at all, could not justify an answer that could be accepted upon its function being demonstrated.

At question time: a number of visitors requested on how did I see its functions?

Mr. Searl reply:

Since 1946: I had considered that it was due to magnetic bubbles in a wave structure condition; But since 1963, I have changed my view slightly, that though I still accept that magnetic bubbles are involved and no doubt are the primary players in the function we are witnessing.

But there is far more involved in the functions which are taking place within the material structure which I feel behaves more like this: that the electrons are trapped in a two dimensional plane, I feel certain that the electrons are exhibiting the quantum Hall effect.

All of you present here; are in fact shocked by this demonstration and are confused due to your brainwashed concept on magnetism.

It is for you a startling phenomenon, for me it’s just a natural event with massive opportunities for the future of energy and transportation systems.

Due to the phenomenon effects of temperature drop which suggests to my mind that it could be intimately connected to superconductivity; one which stays on regardless of room temperature, but you can turn it off if required to.

To my understanding, for what it is worth; since the time of the ancient Greeks, a central goal of all scientific disciplines has been to find a minimal set of basic principles that underlie diverse natural phenomena, which clearly this effect surely is.

I accept that this re-educationists philosophy has succeeded well in some areas, such as high-energy physics:

The study of the fundamental particles of force and matter – which I am sadly to have to state that none of you appear to my mind to understand the basics of force and matter, having studied this now for 8 hours, still none of you can produce any insight upon what you have been witnessing here.

You are trying to fit your knowledge to this demonstration, even though you must be educated enough to know that this function is something different to your originally magnets, yet you continue to try to fit it to your understanding which unfortunately you will never succeed. This is my opinion of the function taking place:
I feel that the correct term for this concept is the Quantum Hall Effect that takes place in the plane between two different layers which is being cooled due to the load being drained from one material to the other: the atoms on the surface of the material are depicted as green and blue spheres.

When a magnetic field (red lines) is applied, electrons in a current (yellow, travelling into page) are redistributed so that more electrons are on one side (the right) than the other; in this case more on the lower side than the top side; which was actually recorded on an oscilloscope and release in this document of the time, unfortunate that recording is no longer available.
This redistribution of electrical charge produces a measurable voltage (the Hall voltage) and conductance perpendicular to the current flow.

As I understand it that the quantum Hall Effect refers to stepwise increases in conductance as the magnetic field rises.

There is far more than that involved, but let me deal with this opinion here as a start in the investigation of what functions are actually involved.

My opinion is to group all particles into a few families and hopefully express the basic laws of physics in terms of the interactions among them.

Even then, I shall only be able to cover a small detail of all the interactions which takes place within the Searl Effect Generator (S.E.G), nevertheless I will try.

First, I understand that the scientific world will state that the situation is quite different in condensed matter physics, which is the study of solids and liquids.

At this time, our S.E.G is solid mass; I have to state that I have not experimented with liquid version so far to date, but rest assure that I have no doubt at all that a liquid one could be also achieved if I just put my mind to it – at this time my mind is far too busy to start the task of thinking on such a project.

My research studies during my life time into the behaviour of electrons in solids has uncovered various states of matter in which electrons organise themselves in myriad remarkable ways.

For example:

Solids are typically either insulators – which means that they strongly resists the flow of electric current – or others which are metals - which conduct electric current well but still have a small amount of resistance.

Yet under some circumstances, certain solids can enter a superconducting state, in which electric current flows without resistance at all.

It is this effect which interest me in respect to the S.E.G., the question that exist does the ground base operation design S.E.G. create a superconductor state – that answer is yes, once at full load condition it will switch to superconductive state and maintain that state until the load drops to its cruising speed – that is when no load is being drawn.

Unfortunately for those who are stupid enough to try and get more energy the it is designed to give at constant rate, will discover that S.E.G will reduce one’s personal bank account instantly and will having to build a new home and buy a new S.E.G.

I agree that the theoretical characterisations of these different states have been as diverse as the states themselves and that is also absolute true.

Nevertheless, I would guess that it will take 5 years or more; before these experts will agree on how the S.E.G. functions and why, after it hit the marketplace.

Before then, they will in their so-call wisdom down such a concept; because they had not discovered it.
From where I sit that may soon change.

Researchers throughout the world must find a deep connection between superconductivity and the intensely studied subject termed the Searl Effect within the condensed matter physics, the quantum Hall effect.

This phenomenon occurs when electrons are subjected to three specific conditions at once; here we go again that law of the squares poking its nose into the subject under discussion:

1) They are trapped at the interface between two different materials, so that they can move only in a two dimensional flatland;

2) They are cooled to temperature near to 4°K;

3) They are subjected to a high magnetic field.

Within the Searl Effect Generator (S.E.G) the imprinted magnetic field increases with the velocity of the roller sets at a linear rate.

Within the Searl Effect Generator, the temperature drop is linear to the relation of the roller sets velocity.

To my mind, the magnetic field causes the electrons to drift sideways in relation to the sine wave that’s printed on the material in a direction of the current flow.

As a result, a side ways voltage, or force that pushes electrons develops.

If the magnetic field increases as it will; based upon current demand, this voltage will also increases, but the question is to my mind that within the S.E.G. it will not be linear as we understand it, but rather being more precisely a step wise fashion.

I am aware that statements made may be used by imbeciles to ridicule me, thinking that they impress others into believing they are experts – yes I know that they are experts, but only in crap!

This phenomenon as explained to me at that meeting is termed the quantum Hall effect and was considered the signature of a new distinct phase of matter which goes to shows that holding public meetings can also proved useful in getting input to help solve the mysteries of strange phenomenon that sometimes occur in experimenting undertakings with the forces of nature.

For the sake of those idiots, the term just used by me (NATURE) does not relate to forces of God or the Devil or Aliens – it means precisely what I stated, that is the forces of nature or the law of the squares. AMEN!

As I understand it these days, that when the quantum Hall Effect was discovered in 1980, physicists recognised that the properties of electrons in this extraordinary state differ fundamentally from those in all other known states of matter.

How strange, that in so many instances, inventions are using terms not yet accepted by physicists anywhere in the world until many years later they too suddenly discover it.

That sure amazes me – proving yet again a fact of reality – if they have not invented it – then its not possible for you to do so.
It has always been the bug in progress, and I guess that will always be the case, as long as Homo sapiens remain on planet Earth.

Inventors records through time shows the reality of what you have to endure just to create the tomorrows; which then you all enjoy to milk the market as your rights – yet the record from the domain of religion is terrifying in relation to inventors efforts to help the world; where heavens knows how many were burnt at the stake on a Sunday as a public entertainment show.

Of course today, we are able to control the forces of religion evil streak to murder for public entertainment purposes on anyone that did not conform to their commands; so that they could hold a controlling hand over you by brainwashing you with fear.

Today, around the world we see the same kind of action, where the population are controlled by brainwashing them with fear; by those in government.

Terrorists are another example where insanity of a few control masses to murder on religion grounds as some form of sport; those who do not act in the way they try to brainwash you.

It is nothing more than a cancer in society which is growing fast because governments will not carry out the urgent surgery needed to remove it from society.

Basically in an indirect way I see my case on similar lines, but it is these experts not the terrorists, are blocking this technology from reaching the masses by brainwashing them with crap.

However to my knowledge the latest explorations in this field appear to have uncovered a striking relation between the quantum Hall Effect and the more familiar phenomenon of superconductivity, which strangely matches what I was stating on lectures from 1963 onwards.

The 1947 experiment clearly showed that something different was taking place within the material which I was using under this form of magnetising which was then termed by the scientific community of the day as magnetic bubbles.

I understand that studies of this link have even led to predictions of other new phases of matter, which experiments have recently confirmed.

I appreciate that like the Searl Effect, the quantum Hall Effect may have no immediate practical value to the scientific community, yet strange as it may appear, its study has fostered the development of new concepts and theoretical tools.

These tools are likely to have broad implications for physics, in much the same way that the theory of superconductivity has helped advanced elementary particle physics and that the study of phase transitions has greatly enhanced the understanding of the early universe; which I for one require to know a hell lot more upon the structure of the universe and its functions from the beginning right up to the present time.

By now you ought to accept the simple fact that the Searl Effect Technology involves many people and actual inventors over time to bring it to this stage of development and progress. It will in the future take many more such like minded people to carry it through forward into space exploration.

If you really take the time and make the effort on reading this book, you might just find that it is a very interesting world which I speak of – this world in which I live.
I accept the opinion that explorations of the quantum Hall Effect also offers a glimpse into the astonishing ways in which the subatomic world operates that make the Searl Effect Generator and the Inverse-Gravity-Vehicle a reality and it will thereby spurring theorists to formulate a more complete view of the physical universe.

Moreover, the principles involved may well prove important to Searl International Space Research Consortium and certainly in future generations of semiconductor micro electronic devices which will be required by Searl International Space Research Consortium research and development operations.

The future from where I am sitting sure looks bright, so why not turn on the light and be seen to be working for a better future for all mankind regardless. It is not a crime to improve life existence on planet Earth, but destroying life and planet Earth is indeed a crime in my books.

I have no doubt in my mind that these devices will be made ever smaller, they will to my mind eventually reach dimensions at which quantum mechanics and the interactions among electrons will become crucial to design considerations.

403: **DISCOVERY OF THE QUANTUM HALL EFFECT:**

The quantum Hall effect turns out to be an unusual manifestation of a well known, more general phenomenon in electrical conduction that was discovered by the American physicist Edwin H. Hall in the 19th century.

When a voltage is applied between the ends of a wire, current begins to flow.

Now, when a voltage appears on the ends of each roller set, therefore current must begin to flow, that is the nature law.

If the wire is then subjected to a magnetic field, the flowing electrons experience a sideway force.

This force redistributes the electrons non-uniformly – more electrons end up on the right side of the wire and fewer on the left.

Now let me attempt to prove this in reference to the S.E.G. function.

First point – the width of the roller segment plus the plate are acting like our wire stated above; with an exception that it is a continuous length of wire forming a sine wave pattern in structure across the faces of the segments and the plate.

What was recorded and released in one of my books at that time was a picture from the PC of the oscilloscope showing absolute proof that there were many more electrons in the lower half of the wave in reference to the upper half of that wave.

Mr. Tayfun Kocate now living in Turkey, purchased it for me plus other items to help me out so I could do live demonstrations for Television such as Pro7 program of Germany, to show first that we did have a wave form on metal and secondly that the bulk of the electrons sit on the lower half of the wave which clearly has nothing to do with Earth gravity effects.

You may wonder why you have not seen this equipment in video clips which has been released – the answer to that is that Tayfun took all goods back when he sense that Martin and Ken were planning to rob me of my equipment so his equipment would not be stolen.

457.
One day, if I can live long enough I shall buy such equipment again for research, unfortunate last week my pension was cut by a half and so far no more money has been received here, so it will now take 4 times longer or even more to be able to replace that equipment.

That is why S.E.G is not available yet – they would have been if people were honest instead of being greedy.

This act as an illustration of the LeCroy Digital oscilloscope which Tayfun supplied me with which was used in the German TV film interview in: which Tony also filmed that interview for my records.

If I actually live long enough might be able to transfer that recording from VSH into the PC and issue in on my web as a video clip.

Unfortunate, that term live long enough: do not look very promising at this time.

All I can do is to present the actual facts which I have recovered from the robbery period, what you do not see; unfortunate is not my fault but the fault of evil minds who steal my property for their personal gain, who do not process the intelligence that stealing my goods stops them from success and they loose everything that they would had gain; had they actually work as instructed by me, but they would not do so.

To my understanding is that in this wire the non-uniform distribution in turn produces an electric voltage perpendicular to the current direction.

To detect this side ways voltage (the Hall voltage), one simply attaches the probes of a standard measuring device, such as a voltmeter, to the side of the wire.
For a fixed magnitude of current, the Hall voltage rises smoothly with the strength of the magnetic field.

This phenomenon is now commonly referred to as the classic Hall Effect.

Now the operation of the Searl Effect Generator presents exactly the same results in every detail. Precisely: what I have been stating; since 1947 remains the same today.

It has been discovered that under special circumstances, the Hall Effect does not obey the usual rules.

As I understand it that it is thanks to advances in semiconductors to trap a collection of electrons between two crystalline semiconductors such that the electrons can move in a single plane.

If we chilled these trapped electrons to within a degree or two of Celsius of absolute zero, we shall find that the Hall voltage will not raise smoothly as the strength of the magnetic field increases.

To my mind at least; this information is of interest due to the intensions of operations of Swallow Command,

So what am I stating here, let me represent an illustration of what is being stated here:

**EXPLANATION OF QUANTUM HALL EFFECT:**
*With electrons at filling 1/3 (left) follows once the composite bosoms cancel out the external magnetic field (right, where the cancel field has been left out for clarity).*

Cold, charged bosons in the absence of a magnetic field become superconducting, accounting for the perfect conduction in the longitudinal direction.

The Hall voltage develops because of induction:

The moving fictitious magnetic flux produces a sideways voltage.

This is an illustration upon what I am trying to explain in text form in this document.
Instead the Hall voltage will rise in steps, with values that do not vary at all over a small range of magnetic field strengths.

I think maybe I should add some graphs here to help with the explaining process involved.

**SIGNATURES:**

Of the quantum Hall Effect are seen when certain measurements are compared with those to the classic (non-quantised) Hall Effect.

In the classic Hall Effect the voltage in the sideways direction (the Hall voltage) varies smoothly with the magnetic field.

In the quantum version the voltage plateaus at conductance’s equal to certain integer and fractional multiples of a fundamental constant (only a few multiples are noted). Parallel to the current, the longitudinal voltage varies smoothly with the magnetic field in the classic effect.
**In the quantum version the voltage disappears when the hall voltage plateaus.**

In addition, the longitudinal voltage – that is, the voltage necessary to maintain the flow of current – nearly vanished when these plateaus in the Hall voltage were reached.

In other words, the electrons in flatland became perfectly conducting.

They are not technically superconducting as they are within the Inverse-Gravity-Vehicle and remember that superconducting electrons can also expel a magnetic field.

These perfectly conducting electrons in the Searl Effect Generator do not expel the magnetic field. That is great news, otherwise the power load would be constant at maximum level regardless what the demand required which from where I am sitting is not in our best interest with regard to the S.E.G. in question.

Perhaps more interesting is that at each plateau, a quantity called the Hall conductance will be found to have a special value.

The Hall conductance is the ratio between the amount of longitudinal current and the value of the Hall voltage.

I guess that I could state that at each plateau the Hall conductance equalled an integer multiple of the quantum of conductance, a unit equal to \( \frac{1}{25,812.8} \) inverse ohms.

That is the best value which I can present at this time until such time that another S.E.G. is operating.

Conductance is the inverse of resistance.

The quantum of conductance is represented as \( e^2/h \).

The \( e \) stands for the charge of an electron; \( h \) is Planck’s constant, which relates the frequency of a light ray to the smallest amount of energy it can carry.

Then in 1982, another encounter with the properties of the quantum Hall Effect, it was discovered that the Hall voltage plateau more often than was originally thought.

It levelled off at specific fractional values, such as \( \frac{1}{3}, \frac{2}{5} \) and \( \frac{3}{7} \), of the quantum of conductance.

The name of this phenomenon, not surprising, is the fractional quantum Hall Effect, well I never!

To my knowledge for what it's worth, so far no experiment has revealed any deviation at all between the measured Hall conductance’s and the quantised values.

They are the same to within at least one part in 10 million – that’s seven decimal places; with the S.E.G. I would guess that they are the same to within at least one part in 100 billion.

Because of this accuracy, the National Institute of Standards and Technology has adopted the
Quantum Hall Effect as the standard to calibrate resistance measuring devices; which Searl International Space Research Consortium shall also adopt this quantum Hall Effect as the standard to calibrate its measuring equipment.

THIS DEVICE BASED AT THIS TIME IN THAILAND
Whose functions are based upon this document; in many ways are related.

404: **MAGIC FILLING FACTORS:**

Why does the Hall conductance adopt these magic values?

I am aware that investigators spent years trying to solve this puzzle.

The answer, as will be seen, lies with the strength of the magnetic field impinging on each electron.

The problem is to understand the solution, one need to know three things about how physicists describe magnetic fields.

First, quantum mechanics represents the amount of magnetic field acting on a sample in terms of a unit called the magnetic flux quantum.

One way to picture a flux quantum is to imagine it as an arrow.
To measure the strength of the magnetic field, one simply counts the number of flux quanta – arrows – poking through a sample in a given area.

Second, an important quantity related to the magnetic field strength is called the filling factor. This is the number of electrons in a sample divided by the number of magnetic flux quanta penetrating the sample.

When the filling factor is one, there is one flux quantum per electron; when the filling factor is $\frac{1}{3}$, there are three flux quanta for each electron.

Third, there is a correlation between the quantised values of the Hall conductance and the corresponding filling factors – known as magic filling factors.

When the filling factor is 1, the Hall conductance is found to be $1e^2/h$; when the filling factor is $\frac{1}{3}$, the Hall conductance is $\frac{1}{3}e^2/h$, and so on.

I am aware that it was first explained by plateaus in the Hall conductance using separate idealised mathematical models for the integer and the fractional filling factors which to my mind relies on wave functions which of course the Searl Effect Generator relies upon as well.

Mathematical functions that describe everything there is to know about the state of quantum particles.

For example, at what is called filling factor $\frac{1}{3}$, there are three flux quanta – a measure of magnetic field intensity – for every electron.

Here we can envision this condition with composite bosons, or charged particles having three – fictitious – magnetic flux quanta.

I agree that it leaves several questions unanswered.
It relied on certain simplifications that are difficult to apply to real world materials, which contain many imperfections.

Wave functions are abstract, thus explanations were rather tough to picture.

The approach did not indicate whether any relation exists among the quantum Hall Effect and other kinds of electronic activity in solids at this date.

Finally, I like to consider the similarity between the integer and fractional quantum Hall Effects, strange to my mind it would seem they should be treated on an equal footing and not separately, but there you are – who am I to complain?

By exploiting a precise mathematical analogy between the quantum Hall Effect and superconductivity, I have developed a new way to comprehend the quantum Hall Effect.

Besides unifying two seemingly phenomena, the analogy enables physicists to apply knowledge of superconductivity to the quantum Hall Effect – at least to my mind that might solve part of the problem of the S.E.G.

This approach complements other peoples work achieved before this date and it embodies many of the insights gained from their work.

As I keep stating, this work includes the efforts and achievements of hundreds of people of the past. It is not just a now flash now draw attention to myself – that really is the last thing I seek.

My sole interest is cleaning up this environment and expands our capabilities into deep space for the benefits of planet earth as a whole and not for any individual group.

To be able to achieve this objective I must show what I know, understand and how I intend to apply that knowledge gained.

The Searl Technology has been knocked wrongly by so call experts, by exposing their knowledge of the basics, shows how wrong they are – that is if they can remember the basics of what they should had learnt at universities.

This book is exposing my knowledge at the basic level as a minimum requirement and its free, all you need to do is study it and learn. If you are incapable of helping or understanding this work, then play it wise and keep the mouth piece shut – it is less embarrassing that way when this technology hits the marketplace.

This subject relates to the S.E.G. technology, but it only relates to a portion of the functions of this technology.

It is distinctly separate when focusing on the real macroscopic observables of the physical system rather than on the hard to visualise, microscopic properties of an idea system.

Clearly the S.E.G. Technology requires a different approach and the first steps in this new direction actually occurred in 1968. At the open day meeting where the demonstration was recognised that the wave functions used to explain the quantum Hall Effect could be viewed as representing the superconducting state of a new, imaginary type of particle, called a composite boson.
In those days, there were plenty of imaginations going around that it was alien technology being given to me to give freely to the world. Other statements were that God gave it to me to give freely to the world. All this giving to the world free of charge amazes me – who the hell was going to pay for its development?

I agree that a number of companies did supply equipment on free loan in those days, to them I was most grateful; something these days I have not seen the likes of since.

A similar observation was made somewhat later by other visitors attending my day show and lecture.

405: **BOSONS AND FERMIONS:**

Bosons are one of two families into which physicists group all particles on the basis of their statistics or group behaviour – or more precisely they should do – but fail sometimes if it suits them to do so.

The wave function describing a collection of bosons remains the same when two of the particles exchange places; which to my mind makes sense.

The other family of particles is the fermions; their wave function changes sign – from positive to negative, or vice versa – which I have been stating; was my understanding from the law of the squares since 1947, when two particles are swapped.

So you don’t know what I am talking about – I understand you – and this book is to help you to understand this complex technology.

Electrons, protons and neutrons are all fermions.

An atom, which contains all three, can also be treated as a single-composite particle.

Whether it is a boson or fermions depends on the net number of the constituents:

*If this number is odd, the atom is a fermion;*

*If the number is even, the atom is a boson.*

That was easy to follow in structure content – if not then I must admit you got me beaten on how to explain it.

The isotope called helium 4, for example, contains two electrons, two protons and two neutrons, making it a boson; does that help you to understand this technology?

In contrast, the isotope helium 3 has two electrons, two protons and only one neutron: therefore, it is a fermion; I trust this will help you to understand what I am saying in this document.

Bosons and fermions differ in many ways.

Most relevant to this document are the rules governing the occupation of quantum mechanical states.
I do understand that many things stated in this document is hard for you to follow – but that’s unfortunately the reality of life – you are either employed in such technology or you are not – if not it is almost impossible for you to understand such things. You cannot run until you can walk – that is the reality of life and you cannot walk until you can crawl; that is also the reality of life.

You should never expose yourself on the web with such words as “I don’t know what he is talking about” – that is insanity to brag that you are not educated enough to the world – I don’t care if you want the world to know that you are not educated – that is your human rights – but its wiser not to do that.

Fermions obey the natural law, which forbids two fermions from occupying the same state – essentially, they cannot be in the same place at the same time, which has been one of my main statements since 1947 – how many times you read this statement in my books and newsletters – how many times I have made that statement at my lectures?

*The law of the squares makes that point clear to me since I was 5 years old, and at 76 years old I see no reason to change that statement.*

![](https://example.com/fictitious-flux.png)

*Orienting the fictitious flux against the real magnetic flux.*

But the law of the squares also states that there are always two prime states in this universe.

Strange this law does not apply to bosons; many bosons can exist in exactly the same state.

These two fundamentally different properties of fermions and bosons account for many observations in physics.

A good example is the dramatic difference between a superconductor and an ordinary metal.

Electrical conduction in ordinary metals can be readily understood in terms of the properties of fermions – specifically, electrons; in contrast, superconductivity is a property of bosons.

I guess that you are wondering how can this be, considering that the electric current carriers in all solids are electrons, which are fermions?

The answer is that in the superconducting phase, the electrons bypass the rules for fermions by pairing up.
Each pair then acts as a boson: all these pairs can condense into the same quantum state to produce superconductivity.

In the ordinary metallic state, however, electrons retain their single, fermion identities.

As fermions, they exist in different states, as demanded by the natural law exclusion principle, and fail to superconduct.

_The theory that uses composite bosons to explain the quantum Hall Effect was introduced to my knowledge in 1989._

_Summarising this information, I accept what it is stating is that electrons moving in two dimensions in a strong magnetic field are mathematically equivalent to a collection of composite bosons in a such weaker magnetic field._

_To my understanding that under particular circumstances – namely, when the electron filling factor reaches a magic value – specifically, 1, 1/3 or 1/5 – the magnetic field that composite bosons experience is actually zero._
In that case, I would argued, that composite bosons would, under a broad range of circumstances, become, superconducting; which the Searl Effect Generator demonstrates.

I will go further by stating that when composite bosons become superconducting, they give rise to the quantised Hall conductances, if my observations don’t deceive me.

I am aware that a number of people have devoted much time and effort to the subject of quantum Hall Effect under a variety of conditions.

From which an extension to the above information has been shown which is:

The theory: to account for all the other, more complicated quantised Hall plateaus, such as $\frac{2}{5}$ and $\frac{3}{7}$.

Yes, all these people; actually unknown to them, have helped me in this research work – they have actually input information to which I can use in my evaluation of observation results.

**COMPARING SUPERCONDUCTIVITY WITH THE QUANTUM HALL EFFECT:**

<table>
<thead>
<tr>
<th>SUPERCONDUCTIVITY</th>
<th>QUANTUM HALL EFFECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paired electrons (Cooper pairs) are the basic carriers of charge</td>
<td>Composite bosons are the basic carriers of charge</td>
</tr>
<tr>
<td>Perfect conduction</td>
<td>Perfect conduction in longitude direction</td>
</tr>
<tr>
<td>Persistence in a magnetic field And in materials with imperfections</td>
<td>Quantised Hall plateaus, whose values persist over a small range of magnetic Field strengths</td>
</tr>
<tr>
<td>Electrons exclude a weak magnetic field</td>
<td>Electrons resist change in density at a fixed magnetic field, a property called incompressibility</td>
</tr>
<tr>
<td>Flux quantisation A property of superconducting rings, which must enclose an integral number Of magnetic flux quanta.</td>
<td>Fractional charge – the quantisation of electrical charge in units that are fractions of the electron’s charge.</td>
</tr>
</tbody>
</table>

**ELECTRONS AS COMPOSITE BOSONS:**

The theory of composite bosons is based to my knowledge on a mathematical equivalence between electrons moving in two dimensions and a collection of bosons carrying a bundle of fictitious magnetic flux.

It appears to me; that in order for the composite boson to mimic the electron’s Fermi statistics, each boson must carry an odd number of fictitious magnetic quanta – I trust that my thinking is correct upon this issue?

I appreciate that it is difficult to write such documents in a way which every one can understand it, and it often turns out the reader misread the contents in the way it is presented to them, for me it is difficult to see why they get the wrong angle completely opposite to what was intended to be.
I accept the fact: no one can please everyone all of the time; but just a few part of the time is great
Perhaps an example best explain the effects of fictitious magnetic flux.
Consider one of the magic filling factors at which a plateau in the Hall voltage appears – say, $\frac{1}{3}$.
This filling factor means there are three quanta of real magnetic flux per electron.
You are still confused, that makes two of us.
Let’s me consider each electron not as a fermion but as a composite boson bound to three quanta of fictitious flux.
You are confused at a much higher level now, don’t worry you are not alone that is for sure.
Now point these three flux quanta in the direction opposite to the external magnetic field.
The net flux seen by the bosons is the sum of the real and fictitious fluxes.
Because I have pointed the fictitious flux so that it cancels the real flux, the boson sees no net magnetic flux whatsoever.
Now you are not confused any more – just completely lost in space I guess.
As I understand things that at low temperature, bosons in the absence of a magnetic field are
known to super conduct, so I can expect the same to be true of cold composite bosons at filling factor $\frac{1}{3}$.
The question which I ask; is why should the superconductivity of composite bosons imply perfect
conduction in the current direction and a quantised Hall conductance in the perpendicular
direction?
Straight answer is that it’s the law of the squares at work, for a more complicated answer is that
the first part is easy.
Because the composite bosons are superconducting, no voltage is needed to sustain the current
flow; one thus finds perfect condition, based upon the observations of the S.E.G. functions.
The second part is more subtle.
Recall that each flowing composite boson carries an odd number of fictitious magnetic flux
quanta.
Therefore, if the bosons are flowing, fictitious magnetic flux quanta must flow with them.
But moving magnetic fluxes – even fictitious ones – generate electrical voltage perpendicular to
the flow – this property is known as Faraday’s law of electromagnetic induction – but don’t take
my word for that; as Dr. Edwards tell you that I know nothing and that I live in the world of fantasy, so clearly this book is all about absolute nothing, bloody hell that is a lot of pages of absolute nothing to read, plus of course all those wonderful pictures of absolutely nothing to enjoy, yes that world of fantasy is sure a wonderful place of absolute nothing to live in.
Furthermore to my observations: that this sideways voltage is proportional to the total amount of fictitious flux flowing through the sample every second.

So for filling factor $\frac{1}{3}$, the magnetic flux current is three times the electric current.

That in turn accounts for the Hall conductance being equal to $\frac{1}{3}$ of the quantum of conductance.

From this viewpoint, the only difference I can see between the various magic filling factors – be they $1$, $\frac{1}{3}$ or $\frac{1}{5}$ appears to lie in the number of fictitious magnetic flux quanta each composite boson carries; unless I am missing some point.

In addition, the quantised Hall conductance’s – such as $1$, $\frac{1}{3}$, $\frac{2}{5}$ and so on, multiplied by $e^2/h$ depend only on the ratio between charges and flux in the composite boson and not on the details of the material in which I am observing.

The model using composite bosons also explains why the Hall conductance remains unchanged even when the filling factor deviates slightly from a magic value.

Now let me consider the situation in which the electron filling factor is slightly more than $\frac{1}{3}$.

In this case, the fictitious flux cancels the real flux only partially, and the composite bosons experience a small net magnetic field.

But like a real superconductor, the composite boson superconductor can tolerate a small magnetic field.

Consequently, the Hall conductance is unchanged within a finite window around filling factor $\frac{1}{3}$.

The analogy between superconductivity and the S.E.G over the years has forced the issue of quantum Hall Effect to be studied and I find that thing’s goes much further.

For instance, the ability of a superconductor to repel a magnetic field translate into the ability of the electrons displaying the quantum Hall Effect to resist any change in the over all area they occupy as the Hall Effect electronics are said to be incompressible.

Which from my observations: applies the same to the S.E.G. functions.

I am aware of other; more obscure aspects of superconductivity also have direct analogues in the quantum Hall Effect.

*A MAP FOR FLATLAND:*

Let me continue using the composite boson theory, studying the quantum Hall Effect under a broad range of circumstances.

The outcome of that study was represented in a so called phase diagram.

Physicists often use a phase diagram to summarise the behaviour of a material under various conditions.

For example, at different pressures and temperatures, a collection of water molecules can become a liquid, ice or steam.
A diagram illustrating these phases can be constructed to indicate the physical state of the water molecules over a range of pressures and temperatures.

Rather than pressure and temperature, the phase diagram for the electrons in flatland uses as parameters the strength of the magnetic field and the degree of imperfection, or disorder, in the semiconductor crystal that trap the electrons.

This illustration has been presented by Freddie in Thailand, who is in charge of some research and development projects: many of which are classified at this time.

It also illustrates the Homo sapiens capability to reason out the functions of nature so that they can be used for the benefits of Planet Earth.

I can obtain such a diagram from the known phase diagram of superconductors.

Mapping information from the superconducting phase diagram produced a beautifully nested structure; shown on next page.

I am able to show more of the past in pictures then I could have never done before this time; as the tools to undertake such tasks were not available to me.

Even thou so much has been destroyed and therefore lost forever – therefore, we must make certain such a massive loss never occurs again, for it is a record of time captured for future generations to be able to study; what the past has done for them and who and what was achieved.

The theory of composite bosons in the quantum Hall Effect also led to the prediction of an unexpected state, in which the electrons adopt the properties of an insulator and a metal simultaneously.
The prediction of such a Hall insulator was confirmed in a recent experiment carried out in California, USA.

NEW STATES OF MATTER for electrons in flatland as shown in a phase diagram.

At a given magnetic field and level of disorder – point A – the electrons act as a Hall insulator – green – which has both insulation and metallic characteristics.

At higher magnetic fields, the electrons turn into a Hall liquid – blue – that is, they show the quantum Hall effect – and then become a Hall metal – beige.

The numbers signify the integer and fractional values of the quantised Hall conductance.

When one increase the degree of imperfection in the semiconductors beyond a certain point, a very high voltage became necessary to sustain the current flow.

The need for more voltage increases steadily as the temperature fell towards absolute zero – characteristics of an insulator.

In contrast, the Hall voltage remained independent of temperature and increased with the strength of the magnetic field – characteristics of a metal.

I am aware of experiments by others have revealed another surprise – this time, near filling factor $1/2$.

In that case, physicists discovered that electrons acted largely as though they were in an ordinary metal and not in a magnetic field.
Among other features, the Hall conductance was not quantised but depended linearly on the magnetic field.

An intriguing explanation for this so-called Hall metal relies on the idea that an electron can be viewed in a composite fermion.

A composite fermion resembles a composite boson, except that it carries an even number of fictitious magnetic flux quanta and, as a result, obeys Fermi statistics.

The virtue of both the composite boson and composite fermions is that seemingly strange behaviour of electrons in flatland can be related to the familiar behaviour of composite particles.

A question often raised is whether these composite particles are real or are, like quarks in high energy physics, useful constructs that cannot be isolated and studied individually.

This debate has sparked considerable research, but definitive results have yet to be garnered, which the S.E.G should also be included within this study.

Sixteen years after it was discovered, the quantum Hall Effect remains one of the most exciting areas of research in condensed matter physics.

I appreciate that the rich variety of phenomena has provided a testing ground for many theoretical ideas.

I agree that a global picture has emerged that unifies the understanding of these phenomena and others in condensed matter systems.

Yet despite the progress, critical issues such as the S.E.G. remain unsolved; as the Hall insulator and the Hall metal are still far from completely understood.

How other properties of electrons, such as their spin, fit into the picture is also not fully known.

At my lecture upon that day, I did remark that the importance of the S.E.G. does not lie in any applications, but rather in the new insight that Searl International Space Research Consortium physicists will gain into the peculiar properties of systems of electrons in strong magnetic fields and into the hidden regularities implied by the mathematical laws of quantum mechanics.

Nature may well hold in store other surprising states of matter that none of us can yet imagine, so far it appears that Searl International Space Research Consortium has at least found two of them.
Tomorrow’s energy and transportation systems.

409: The time has now arrived to give my report upon the progress of the re-development of the S.E.G.
473.
So the lines are now close for updates upon the work for this part of the book.

Glastonbury:

They have been unable to raise the funds needed to get started. The photos taken upon my last trip down there: most of which have not been presented to me to use. So the odd ones I have I feel would not be right to show here without the full picture of the reality of that trip.

So this site has nothing to report of worth.

London:

Work continues at the rate that my pension will allow me to move. Wiring and re-writing lost documents back onto this PC is slow but still progressing.

These first 40 switch circuits are part of the testing switching circuit for the I-G-V system, some are active at this time, and the rest are waiting for time to wire them.

PENNSYLVANIA – USA.

NEW YORK – USA.

There has been no report to file – still trying to find backers for the NY section.

John Thomas – D.I.S.C INC. CEO.

CALIFORNIA – USA.

Been heading the magnetiser research and development.

Fernando Morris. Head Engineer. Searl Magnetics Ltd.

THAILAND.

Heading the S.E.G. and IGV studies: progress on magnetiser is continuing. 2008 is still targeted for testing the S.E.G. under load. I.G.V. 2M model study is underway. Website should soon be on line.

Freddie Vuksan: Commander-in-Chief of operations Thailand. NEW SPACE TECHNOLOGT CO. LTD.

ISRAEL.

Been given the green light to start up, One of their reps travelled to Thailand to check out equipment needed, stated they would invest in Thailand magnetiser to get it done.

No reports have been received in reference to that visit except that they plan to return with an investor shortly.
Waiting to confirm who will lead their team.

Actually I must admit that I expected them to move quickly – but they appear to be held up.

ITALY.
Placed on hold until the Thailand Magnetiser is completed and fully tested, and then they will be given the green light.

JAPAN.
Japan has dropped the ideal to manufacture the S.E.G. instead to buy them from Thailand.

AUSTRIA.
Now active undertaking research and development of the buffer unit for a magnetiser.

Chris Wood Head of R&D Australia.

Chairman Prof. Searl,

Other countries have applied also who wish to form a centre to assist in the work.

France appeared to be interested to set up, unfortunate they chicken out at the last minute, and therefore cannot be accepted, as they had an option and blew it.

This is a complete new technology being developed, unfortunate to day the cost has vastly increased to that of 1947. Tomorrow it will even be far more costly then today.

The cost will set the time band that will be required to complete the work; research and development anywhere in the world, will be controlled by financial availability – simply lack of funds = time, a very simple bit of maths.

Strange that this massive increase cost that is now hitting us should never had been, the technology that would had prevented this plight was available; but no one would back it to the market place – now as I have warned you since 1947 would happen – well it is happening and already many have died and sure as apples are apples many more will join them; sooner than later and if you don’t believe that; you have a major shock coming your way fast.

Things are going to get worst – well that is not news to me – I have tried so hard to warn you that this would happen in my life time; not after I am dead and forgotten, and true to my words I am still alive and watching the hell which is being created.
I am shocked that the masses still cannot see the problems approaching them, why do they think that they are different to those who have just been killed – do they really think that God will save them in their hour of need – if so – you are sure in for a big surprise, he is on holiday permanently.

476.

410:

**DOC-SISRC-MFD-PM-1**
**DATE:** 7TH May 2008.
**EDITION:** First.

**STAR PORT EARTH ONE – THAILAND.**

**LOCATION** : Headquarters – Thailand – Planet Earth.
**DIVISION** : Manned Flight – Swallow Command.
**SUBJECT** : Deep Space Exploration.
**AUTHOR** : Prof. John Roy Robert Searl.
**STATUS** : Head of Research Studies.

**REALITY – FACT:**

*You cannot go to Planet Mars on a credit card – thus we must study how or if we are capable to make such a man flight at this time.*

**FACT 1:**

*We are capable to send robots to planet Mars that I have no problems with or doubts upon a successful achievement, regardless who undertake such ventures.*

**FACT 2:**

*I agree that using robots cut the cost of exploring planet Mars – and reduces the chances of loss of life in the process.*

**FACT 3:**

*I accept the opinion that given time man will be able to send a robot to Planet Mars to collect samples of surface material and might even be able to take a bore sample and return it to Planet Earth safely for analyzes so man can obtain a better picture of planet Mars life cycle.*

**FACT 4:**

*I accept the opinion that life on Mars as we know it; is zero rated – if any life form is found it would not be based on the carbon cycle – it would be on the Iron cycle; but even that I truly doubt such will be discovered.*

**FACT 5:**
Planet Mars is absolutely unsuitable for Homo sapiens to colonise it at this moment in time – so the idea that we shall all transfer to planet Mars as a stop over; on our way to a new home in space can be trashed down the loo.

FACT 6:

The very statement of moving every one from planet Earth to Mars as the first step towards finding a new home in space is completely insane – because at this stage there are no such vehicles available that can take such numbers at a time to Mars – so that can also be trashed down the loo.

FACT 7:

Reality is the problem – not fantasy – Homo sapiens represents a major problem – agree to all problems there is an answer in reality that will solve it, but for the Homo sapiens that means cost – and money is a damn big issue to solve.

FACT 8:

Problems to be solved:

1) Funds;
2) Life support;
3) Mode of transportation;
4) Communications;
5) Construction and accommodation sites
6) Mission targets.

411: To meet these problems Searl International Space Research Consortium is being set up for the sole purpose: to give all people of planet Earth that opportunity to take / play a part in the research and development of concepts across the whole spectrum; which will be needed for long mission durations of exploring space within a commercial operation domain.

To this aim a start was made in 2007 autumn to prepare such concepts for research and development which will continue to testing and evaluation.

But this action is based upon much earlier work which was undertaken by me that goes back to 1968 when it was achieving a high standard of study and success – unfortunate greed stepped in and brought it to a halt.

A further attempt was made again that was halted by greed on Monday August 25th 2003; unfortunate I was not in the controlling seat during that period of study and research.

To day I am at last back in the controlling seat and this time with a whip to assist me.

My team are excited being selected to be part of the effort to undertake the research and development of such new breaking grounds in energy and flight, or is it the whip that is exciting them?

412: The law of the squares; sure make it clear to me that there are two prime ways to transit space:

1) Vertical concept – the rocket;
2) Horizontal concept – the slender disc.
So far man has taken the vertical concept option – and we must agree that he has done very well with his choice of operation.

Therefore, my observation upon this vertical concept operation in space presents an image that from a commercial point of view that it may not be the best concept from the economics standpoint.
Is this the best way to go to Mars?

479.

At this moment in time that is unfortunately the only available option – the vertical concept of space travel; but for planet Mars is it really ready for Manned Flight?
In this book which you are free to read and study present the reality that is and certainly will be involved when man at last really commence deep space exploration – and it all belongs to the world of reality.

Because I deal only in the domain of reality; does not mean that I cannot laugh or joke about life, because I can; both give and take – where those in the domain of fantasy cannot take a joke unfortunate, but they can give them out regardless.

Therefore, based upon the FACT that the world is developing the vertical approach to space travel, and no one appears to be looking at the horizontal approach as a solution has open the window for a new approach to the problem.

Therefore, the sole purpose of Searl International Space Research Consortium is to re-look at the horizontal approach; from where I left off in 1968 and see if those threads can be recovered and developed to a successful commercial business in space.

This undertaking is progressing, both in Thailand and the USA, unfortunate not yet in the UK, where it first started.

Nevertheless the real story started long, long ago in the year of our Lord 1938, where a boy was sleeping in a house known as the chestnut, in that time interval; was a rather lonely country district where men were farmers and a few women were teachers and all mainly were controlled by religion – there was no flush toilets, or running water, electric and the only gas available was that which left your rear end, which under the religion control was not a subject for discussion.

There were no shops around for miles, or cars, but you had legs and that is what he had to use to get from A to B, so this boy never ever knew what shopping was about. He was not well, and not really happy as children mainly are today, and being deaf never helped him to enjoy life.

At school, there was no hope for him to learn, no one cared if a child actually learnt anything or not, as the only jobs available were farm jobs as long as you can clean out cow and pigs sheds you got a job.

I have to give credit where credit is due; my teacher tried to help me to learn; by downing my pants and giving my bum some colouring – bless her – shame she not around any more – but sadly that never succeeded to help me to learn, but it did keep my bum exercised and well trimmed; I guess I should had been grateful for at least her helping hand.

A few years back while checking if that house was still standing; I discovered that I was not the only boy who got a helping hand from that teacher.

But it came to past that in that year of our Lord; this boy was visited by a dream giving clearly instructions upon a technology that was to be, if life was to remain upon the earth; whose contents frighten this boy so much that he awoke from that dream screaming for help which he got but alas not quite the type of help which he was expecting.

Nevertheless he did get a good rest; for the rest of that night, even if his arse was hot and red, his foster mother was right; the devil never came back that night. Clearly religion has a cure for all problems.

That dream hereinafter will be termed ‘dream one’ – this dream gives the mathematics for the technology including material class to employ and directly appears not to be any part of the flight side, but more related to ground based power systems.
Then unexpected the devil arrived again, another dream made a visit to this boy; but this time it’s a different dream. Again it ended horrible to cause the boy to wake and scream for help and again he got some help, again not quite the help that he was expecting, but his foster mother was right again the devil never return that night.

It is amazing what religion can do for you, when you most need help even if it is not quite the type of help that you thought you needed.

This dream will be termed hereinafter as ‘dream two’ – but this dream is clearly about flight, giving design structure concept, and to use the mathematics from dream one.

Both dream one and dream two will repeat themselves precisely for a period interval of six years, each taking action twice a year and always in the same order of dream one then dream two and repeated same one more time.

How on earth can a boy possibly forget such dreams; when his foster mother helped him to remember them by a jolly good beating on his bare bottom with her hand strap?

Thus the horizontal flight concept which was undertaken back there in the 60s period is based upon dream two; likewise the present day redevelopment and study is also based upon that dream.

Clearly so much was achieved back there upon such a concept, that it is worth while to return to it and continue our investigation upon such a system of flight.

It certainly cannot do any harm; but instead it could do some good; we just have to watch and see what actual happens – who knows; we may as yet stand on planet Mars eating a bar of Mars.

But before that day can materialise, much hard work will have to be achieved and even a much harder task to produce that hard cash to make it happen; unfortunate that we are the only animal on planet Earth that needs money to make things happen to improve our lives and well being.

But before any commercial space operations can be undertaken by a horizontal flight concept, it first has to be invented; concept tested mainly by modelling it, correcting any problems seen then wind tunnel tests.
If that all proceeds without hitch, an unmanned version of such a vehicle is then flight tested over a period of time, checking for any unforeseen problems.

If that passes all requirements a manned version is then tested in gentle steps to certify that no unseen problems turn up; pending upon the results of that test program success, it will then spend time flying around the world visiting various airports of the world as a show case.

If by that time there is a suitable pilot available for use; that craft will undertake runs to the ISS and later to the Moon; as training exercise for the space crew that will fly the Star Ship Explorer on long duration space missions in which planet Mars will certainly be on its early missions.

That of course depends on funds becoming available – strange that all these wonderful things we can do – yet they cannot be done unless money is available to do it – the only animal upon planet earth that can’t do anything without money being involved.

414: I let you into a secret – but only this once; I have asked one of my members to make application for astronaut training in the European space program this month of May 2008.

That I agree takes guts to undertake as one must be prepared to fail the test; as well as passing the test – it is a 50-50 option, you are either lucky or unlucky, in this instant our chap who is available for such training is not a pilot at this time, and that could fail his application.

Nevertheless, that is not a disgrace to you - that you are rejected on the grounds of not being a pilot, in fact it’s the opposite effect for trying to win a chance regardless of the fact that you are not a pilot. I would loved to make an application, but at 76 years I would be rejected, though I am a pilot, nevertheless the I-G-V would on the other hand open the door for me to fly both air and space regardless even at 76 years of age.

The IGV concept is that of a VTVL craft, its classification title is a Slender Disc.

Its call sign shall be STAR SHIP EXPLORER that is S. S.EXPLORER.

The craft will most likely be registered in Thailand as at this time as Thailand looks the most likely place to be first to build such a craft.

It is still early days – America might suddenly wake up and pull all the stops out.

Its diameter has not been finally confirmed at this date.

But throughout this book I have been informing you about the technology and progress of restarting again after such a long time being out of action.

In many ways it conforms to that of a helicopter in respect to take-off and landing; meaning it requires only a base pad, no runways being required.

It shall be power by a Gyro-Flywheel-High Energy Density-Mechanical-Magnetic Device; commonly known as a S.E.G. MK VI. What is basically: an advance S.E.G. MK IV that will become available for earth bound use for production of energy?

482.

415: The reality of commercial space operating systems will entail operations in and out of the present day conventional flying system.
Unfortunate, due to this function of convention aircraft, flight crews for Swallow Command operations regardless if its air or space mission, must first fully understand the present day aircraft operations system, and therefore to that objective I shall continue to explain my training as a sample of training I shall accept for crew members of I-G-V.

Flight is without question, one of man’s greatest achievements: just to sit behind the controls knowing that you are in charge and everything is now under your control, a master of the air is indeed a fantastic experience – but to beat the bonds of planet Earth and orbit another world is an experience beyond one’s wildest dreams – that is a world of reality that was not intended for man – except that he had the rights for it to be a part of his world of fantasy.

We are the tomorrow’s people who are determined to generate the tomorrows for the future of planet Earth – without such people there would be no tomorrows for any one.

We are determined to create better technology for planet Earth – blood – sweat – evil minds shall not stop this work being achieved – the future shall be bright for all mankind and space shall become our reward for our efforts.

Space is the new frontier for mankind the future for our young and their future for knowledge and understanding – which work has began – there is no end until time ends.

When people come together as a team and work as one; so will they be rewarded with success; for that is precisely what we are doing here in Thailand – Thailand deserves the best there is.

And that day will come where Thailand will match the west in technology and went where the west would not dare to tread.
My heart felt wishes go out to all those who are helping Thailand with this research and development project on my behalf, in faith they stand side by side in an effort to see such technology become reality in a world which is dying for the need of such technology.

2008 may see that day arrive when it reaches maturity in clean energy technology; where Thailand shall stand tall in the eyes of the world as the first real green country on planet Earth.

That alone would pay me for the years of suffering which I have undergone to know that the technology at last is where it should have been in 1968, and would had been if not for greedy members.

The commander in chief for Thailand operations in the field: for the Searl Technology having a break in the seat, where once I actually sat my bum, such a short time ago.

To outsiders things will look slow because you are not aware of the sheer cost and the difficulties of finding the goods which are required.

Secondly; this is pure research and development on something never been attempted before; the original S.E.G. took 3 months to make, completely out of the question to meet today’s urgent needs; therefore mass production is the only solution: for that we had to redesign the concept to meet that requirement – but we are determined to win – and win we shall.

The anti-behaviour from idiots does not help to speed the work to the marketplace; just delays it. 484.
The work starts first with a design concept stretch to show plan of assembly such a product.
485.
Then we decide on the body colour scheme and the structural concept of materials to be used.

I-G-V 3M diameter model body colour check to be; just a sample of what is involved here.

We are the tomorrow people who are developing tomorrow’s technology today!
Tomorrow they say never comes — rest assure we shall be coming regardless.

This technology is truly under investigation, and the team are determined to win; so the future still looks bright you can turn on your lights and be seen to smile.
The day will truly come when men will see as a daily event images like this on television as if it was just another airport operations:

![Image](image.png)

*This is indeed the first step to planet Mars.*

Mars has been one planet that has not only excited people into believing that life existed there and that they were intelligent and actually created canals and grew food there; but has also did once create a stampede when radio broadcast started transmitting plays upon the theme of aliens attacking Earth from planet Mars that sure was bloody scarily.

I can just imagine that date, looking out of a window and seeing the pantomime that was unfolding before my eyes, would had created a surge in me to follow suite and bloody quick.

There are those who just don’t move even in an emergency, and other who will run like hell at the slightest suggestion of an emergency; again proving the law of the squares is correct.

You might wonder what would I had actually done on that date in that said district – well in truth its hard to say actually what I would had done – the problem is that I would not believe that broadcast due to the bible enforcement statement which claim that God said that he give the Earth unto men and the rest is his – from that statement I accept that no other planet has a life form like us, thus there were no Martians attacking Earth and just remain where I was; thinking the world had just gone mad.

What else could I had thought: based on the bible claims and what was being broadcasted, which would not had computed in my mind as possible.
The final stage to planet Mars.

The world is what you make it to be, it can be either a scrape yard or a paradise – no God is involved – myself I only need to watch; the truth is plain to see which way you are making it, even a blind man can see that also.

Yes our man seen here has done more in such a short time than any other man has ever done to-date, from nothing except the information from me and the media – created the tools for go!
Then Morris arrived there; things just simply got better and better – which proves that when people join together in an effort to create the future by which planet Earth can recover, they will succeed where others have failed.

Never think we are faking what we show – we are not – that is why we are open to visitors who want to help to speed up this work to success – you others will have to wait for the mass publicity which may occur this year 2008.

We shall be coming – and you will certainly know that we have arrived when we do come. No one knows when that date will arrive – but we know that it will - and the signs are that it will be sooner than later – for the sake of planet Earth I sincerely hope that we are right.

To a wonderful man- a true human being in every sense of the word; we the people of planet earth hereby salute you for your devotion to help to bring in to reality the dream of another man, from another part of the planet, so that all life upon this planet can benefit from its success, may your days be happy and may your life be long; and above all, we hope that day will come when you shall be able to travel both space and time in this creation that you are developing for the worlds benefit - the I-G-V and may its success be the symbol of peace in our time.

491.
To be in the flight crew of the I-G-V you must have certain flight experience, this clearly means that you need to learn to fly conventional aircraft first. Training schools you may find uses different aircraft for students to train on. In my case one school used the tail wheel while the other school used the nose wheel type. The nose wheel type to me appear to be easier to land when you start training – in my case I was working both schools on the same day. Which for some odd reason: upset my instructor of the tail wheel craft, who clearly resented what I was doing in no kind words. The test instructor arrange this set up for me; knowing that it was vital for me to obtain maximum experience fast for the work I was undertaking, he often came on flights with me on the tail wheel craft just to see that I was not slipping up on handing the smaller craft against that larger and faster craft – never did he find any fault, instead he enjoyed getting a trip with me; so that must speak good about my flying – even the media which I took up admit that I was a good pilot.
NAVIGATION:

Starting to learn to fly here are some examination questions for you to answer:

1. **MAGNETIC VARIATION IS:**
   
   a) The difference between True and Compass Heading;
   
   b) The difference between Magnetic and Compass Heading;
   
   c) The difference between True and Magnetic Heading.

2. **A TRACK DRAWN ON A MERCATOR’S PROJECTION IS PARTICULARLY SUITABLE FOR:**
   
   a) Radio navigation;
   
   b) Flight over the Poles;
   
   c) Long Distance navigation.

3. **A LINE DRAWN ON A TOPOGRAPHICAL MAP REPRESENTS:**
   
   a) A rhumb line;
   
   b) A great circle;
   
   c) An isogon.

4. **WHILE FLYING OVER FRANCE YOUR TRACK RUNS ACROSS A SPOT HEIGHT MARKED AS 600 METRES AMSL.**

   **ASSUMING YOU WISH TO CLEAR THE POSITION BY 1500 FEET AT WHAT ALTITUDE SHOULD YOU FLY?**
   
   a) Approximately 3500 feet;
   
   b) Approximately 2100 feet;
   
   c) Approximately 3950 feet.

5. **THERE ARE SIX METHODS OF DEPICTING HEIGHT ABOVE AND DEPTH BELOW MEAN SEA LEVEL ON TOPOGRAPHICAL AND OTHER MAPS AND CHARTS.**

   Can you name them?

6. **WHAT IS AN ISOGONAL?**

   a) A broken line surrounding controlled airspace;
   
   b) A line on the compass correction card plotting deviation;
   
   c) A line on a map or chart, usually broken, joining places of equal magnetic variation.

7. **ONE INCH ON A 1:500,000 SCALE MAP REPRESENTS:**

   a) Approximately 4 statute miles;
   
   b) Approximately 8 statute miles;
   
   c) Approximately 8 nautical miles.

I shall continue the questions on the next page to avoid splitting it up.
8: **AFTER TEN MINUTES FLYING YOU ARE OVER A BRIDGE 25 NAUTICAL MILES DOWN A TRACK WHICH MEASURES 225 NAUTICAL MILES TO THE RIGHT.**

**WHAT ALTERATION IN HEADING WILL BE NECESSARY TO REGAIN TRACK IN TEN MINUTES?**

a) 9° Port;  
b) 8° Port;  
c) 14° Starboard.

9: **ON THE CURRENT 1:500,000 SERIES OF MAPS WHAT IS THE MEANING OF THIS SIGN ▲?**

a) A compulsory reporting point;  
b) A non compulsory reporting point;  
c) An unlighted obstruction.

10: **WHEN MEASURING REQUIRED TRACK ON A TOPOGRAPHICAL MAP THE PROTRACTOR SHOULD BE ALIGNED ON A MERIDIAN:**

a) Near the beginning of the track;  
b) Near the destination;  
c) Near the centre of the track.

11: **ON A MAP VARIATION MAY BE SHOWN BY THE FOLLOWING METHODS:**

a) A correction on each meridian and a statement in words;  
b) Isogonals, diagram, statement in words, compass rose;  
c) A statement in words accompanied by a corrector box, a conversion table in the left margin and Air Information Circulars issued from time to time.

12: **AFTER 40 NAUTICAL MILES THE AIRCRAFT IS OVER A LAKE 4 NAUTICAL MILES TO PORT OF A TRACK WHICH MEASURES 120 NAUTICAL MILES.**

**HOW MANY DEGREES, PORT OR STARBOARD, MUST THE PILOT ALTER HEADING TO FLY DIRECTLY TO THE DESTINATION?**

a) 9° Port;  
b) 9° Starboard;  
c) 12° Starboard.

13: **WHEN COMPILING A FLIGHT PLAN GROSS ERRORS, E.G. SETTING THE WIND OR VARIATION IN THE OPPOSITE DIRECTION ARE BEST AVOIDED BY:**

a) Having the flight plan checked by another pilot;  
b) Forming the habit of estimating track, drift, distance and time of flight before using the computer;  
c) Using a Mercator’s Chart.

To avoid splitting up the next question I will start on the next page.
14: THE REQUIRED TRACK IS 325°, VARIATION 8° W, DEVIATION 2° E AND CALCULATED DRIFT 8° PORT.

WHAT WILL BE THE COMPASS HEADING?

a) 339° (C);
b) 323° (C);
c) 327° (C).

15: ON THE CURRENT 1:500,000 SERIES OF MAPS WHAT IS THE MEANING OF THIS SIGN ⊗?

a) A glider site;
b) A naval airfield;
c) A disused airfield which may be unfit for use.

16: WHEN CONVERTING A TRUE HEADING TO A MAGNETIC HEADING VARIATION IS APPLIED BY:

a) Adding easterly and subtracting westerly variation;
b) Adding westerly and subtracting easterly variation;
c) Adding westerly and subtracting easterly variation in the Northern hemisphere and reversing the process south of the Equator.

17: YOU ARE FLYING TO A WEEKEND GOLF MEETING.

THE AIRCRAFT IS UNABLE TO TAKE THE GOLF CLUBS AND YOUR SUITCASES IN THE BAGGAGE COMPARTMENT.

YOU SHOULD:

a) Tie the suitcases in the baggage compartment and lay the golf clubs lengthwise along the cabin;
b) Secure the golf clubs in an upright position between the front and rear seats and put the suitcases in the rear baggage compartment.
c) Place the golf clubs in the rear baggage compartment with as much luggage as is permitted and position the remaining suitcase(s) within the cabin.

18: WHEN LOST A PILOT SHOULD DRAW A CIRCLE OF UNCERTAINTY ON THE MAP AND LOOK FOR FEATURES WITHIN THAT AREA.

THE CIRCLE SHOULD BE:

a) Equal in diameter to the estimated distance flown since first uncertain of position;
b) Centred on the DR position using as radius 10% of the estimated distance flown since the last pinpoint recognised with certainty.
c) Centred on the DR position using as radius 10% of the total distance for the flight.

I do not like breaking up a question, so as to avoid that happening here I will present it on the next page; I trust that you are finding these questions simple to answer; because later on in this book you will get some real questions to answer.
19: **WHAT PREPARATIONS CAN BE MADE BEFORE OR DURING FLIGHT TO ASSIST IN REVISING THE ETA?**

a) Divide the track into four equal parts, time the third quarter and revise the ETA when starting the last quarter;
b) Obtain a revised W/V over the radio.
c) Work out distance flown every ten minutes, using computed ground speed and place marks along the track to represent ten minutes flying.

20: **THE DIFFERENCE BETWEEN TMG AND TRACK REQUIRED IS CALLED:**

a) Wind effect;
b) Drift;
c) Track error.

21: **YOU ARE FLYING AT AN INDICATED ALTITUDE AT 10,000 FEET. THE OAT IS -10°C. WHAT IS YOUR TRUE ALTITUDE?**

a) 10,200 feet;
b) 10,550 feet;
c) 9800 feet.

22: **CALCULATE MAGNETIC HEADING FROM THE FOLLOWING DATA:**

**TRACK REQUIRED: 255°; W/V 105/15 KNOTS; TAS 140 KNOTS; VARIATION 80° W.**

a) 266° (M);
b) 244° (M);
c) 260° (M).

23: **YOU ARE FLYING A LIGHT TWIN ENGINE AIRCRAFT WITH A FUEL CAPACITY OF 100 GALLONS. THE JOURNEY IS OVER A DISTANCE OF 725 NAUTICAL MILES, THE AIRCRAFT USES 16 GALLONS / HOUR WHILE CRUISING AT A TAS OF 165 KNOTS. ON THE FLIGHT THERE IS AN AVERAGE HEADWIND COMPONENT OF 20 KNOTS. ALLOWING AN ADDITIONAL 5 GALLONS FOR THE TAKE-OFF AND CLIMB HOW LONG WILL THE AIRCRAFT BE ABLE TO HOLD OVER THE DESTINATION ALLOWING NO RESERVES OF FUEL AND ASSUMING THAT THE SAME POWER SETTING IS USED? AND HOW FAR COULD YOU DIVERT IN THAT TIME?**

a) 56 minutes = 135 nautical miles;
b) 2 hours = 370 nautical miles;
c) 75 minutes = 181 nautical miles.

24: **YOUR IAS IS 140 KNOT AND THE CORRECTION CARD FOR THAT SPEED READS +1 KNOT.**

THE AIRCRAFT IS AT AN ALTITUDE OF 8000 FEET WHERE THE OAT IS +5°C.

WHAT IS YOUR TAS?

a) 124 knots;
b) 160 knots;
c) 157 knots.

25: **YOU PLAN TO FLY FROM COVENTRY TO OVERHEAD THE WHITE HORSE AT MARLBOROUGH, THEN RETURN TO COVENTRY.**

I HAVE USED THIS TARGET BECAUSE IN MY TEST CASE I HAD TO FIND A SMALL WINDMILL, NOT THAT WHITE HORSE – WHICH MY INSTRUCTOR REALLY BELIEVE THAT I WOULD NOT BE ABLE TO FIND.

BUT YOU ALREADY KNOW THAT I SURE DID FIND IT BANG ON CENTRE OF MY NOSE CONE. TO THE DISAPPOINTMENT OF MY INSTRUCTOR, AND THE JOY TO MY HEART THAT HE HAD BEEN DISAPPOINTED; BUT NORMALLY I AM NOT THAT ROTTEN TO PEOPLE.

ON THE OUTWARD FLIGHT YOU ARE STEERING 205° (M) TO MAINTAIN THE TRACT OF 188° (T).

THE VARIATION IS 8° W.

WHAT WILL BE THE HEADING FOR THE RETURN FLIGHT?

a) 351° (M);
b) 007° (M);
c) 035° (M).

26: **TO ASSIST IN ESTIMATING TMG IN THE EARLY STAGES OF A MAP READING EXERCISE THE PILOT SHOULD EMPLOY:**

a) Five or ten degrees fan lines from the point of departure either side of track;
b) Time marks;
c) Ten minute marks along track.

27: **CONVERT 120 KM TO NAUTICAL MILES.**

a) 75 nautical miles;
b) 65 nautical miles;
c) 80 nautical miles.

These are the kind of questions that I had to endure – most of which became actual flying tests as actual training lessons; I enjoy doing them more so when the instructor beside hope you will fail.
YOU ARE PLANNING A FLIGHT FROM BIGGIN HILL TO LEICESTER EAST, A DISTANCE OF 100 STATUTE MILES.

TRACK REQUIRED IS 333° AND THE W/V IS 290/20 KNOTS.

AT A TAS OF 110 MPH THE AIRCRAFT IS KNOWN TO HAVE A FUEL CONSUMPTION OF 5 GALLON / HOUR.

ALLOWING 0.6 GALLON FOR TAKE-OFF AND CLIMB HOW MUCH FUEL WILL BE REQUIRED FOR THE FLIGHT.

a) 6 gallons
b) 5 gallons
c) 8 gallons.

I can go on and on with the test questions that a student pilot should be able to answer but chapter 16 is just reaching the number of pages I set aside for it.

So to end chapter 16 I like to add an odd picture or two to show my interest.

Technology is on the move – it is changing, our concept of future needs has to be planned now, either wise it is out of date before you even start thinking about it.

From 1968 to now the world has change so much that only the past outer structure of this technology actually can remain intact the inners have changed completely in design – but those who are in the real world of reality understand what I am saying here – something which the young ones may never know or understand what those days were actually like being an inventor.
We must not forget those who went ahead and obtain the reality which is actually involved in space – maybe the President of America will never shake hands with me – but that is nothing of importance, as the value is purely optical.

The graphs shows just two different days of www.searlsolutions.com, band use – not worried that its don’t show a fantastic hits, I am quite happy with the interest being shown in the websites covering this work- I know that it will soon increase.

Bear in mind that Searl International Space Research Consortium is not about prestige, it’s about helping this planet back to health, and for the benefits of all life forms which must share this planet for without them we cannot exists either.

As I have stated before that I accept cartoons base upon reality for inclusion in my book. Long time ago a Mr George Smith of Reading use to do cartoons on the Levity Disc for my newsletter that I sent out – but that now is a long time ago, by now he might have passed on, so many of my past helpers have now departed for good – I have just to be thankful for any help that is offered to me today – for time wait for no man or woman and it will not wait for you to help to save this planet – our home – the only home we have at this time – shame that you cannot care for this planet as you cared about Princess Diana – if you did this planet would not be dying today.
Now are the hour that we must say goodbye to chapter 16, and from Thailand we thank you for your interest in the work that is being done there for the benefits of planet earth and all mankind regardless.

Chapter 16 has been released to the general public as an education product upon the work which Searl International Space Research Consortium is undertaking for the benefit of all mankind by the authority of:

Prof. John Roy Robert Searl.
Head of Research and Development.

Tomorrow’s energy and transportation systems.

May your future be bright – and your life is full of joy.

THE FUTURE THAT IS YET TO COME – A FUTURE THAT IS ON ITS WAY.

BE READY, THE FUTURE WILL BE BRIGHT.

THE END.