As I have stated, but will repeat again because there appear to be so many people you are not educated keep giving me their crap so let me repeat yet again:

*Searl International Space Research Consortium at this time is re-developing the technology for the purpose of mass production, as the original method is unsuitable for mass production.*

*The purpose of releasing all documents of the past when recovered is to show real (I repeat real experts across the whole domains who actually lives in the world of reality) that I know what I am talking about, and how I am viewing all problems for solutions from the operational domain of business in energy, transportation and space.*

*They are not (I repeat; are not) for those who are not educated that live in the domain of fantasy- but for those who are not educated that wants to learn: for them I try to start right at the beginning so that they can understand how I learnt on my way to the present day.*

I made this point clear, due to the fact that on youtube most comments thrown at me are those who have very sick minds, uneducated in science, and have no wish, or not capable of learning.

By showing off their ignorance on youtube they think that they impress other fools like themselves that they are educated.

All these subjects plus many others relate to the functions of Searl International Space Research Consortium operations of the past still hold good today and any modifications requested by officials will be updated in such related document as soon as an agreement has been confirmed between them and Searl International Space research Consortium.

Searl International Space Research Consortium consist of a number of companies who are and will continue specialise research and developments in developing solutions to the pollution problems across the whole domain of energy and transportation which will also include space operations.

Whether you like that statement or not, I could not care less, as there is a world problem that I have been hammering since 1946, and the experts stated that there were no problems; at last most of them can see that I was not wrong after all., and you followed them like sheep to the slaughter house, now many are dead and many more are certainly going to join them, I feel that will be much sooner then later.

Now that I have covered again basic issues, I shall continue with the past documents, which as stated still remains good today in our work studies.

345: Today: Tuesday April 8th 2008. Update:

Received from Maplin 2 of AO8CQ 7 port 2.00 USB vertical Hubs, as my 4 ports are useless they cannot connect all external equipment to the PCs, that is just the beginning, once move to a larger place, another two of them will be needed to couple up the two Macs, there will be again four computers in operation, each specialising in a precise domain thus I hope this will not over load any one computer with the work load.

Again, this equipment is still being brought from my food money; I have no objection doing this if in the end sense appears in the Homo sapiens to help to speed things up.

As of this date April 19th 2008 my housing fund still remains as already stated.
Why do I show these products?

Because there is a university in the UK that has an expert who kindly tell those who enquire about me that I have never had anything, nor have I got anything – of course, if bastards keep robbing you and the police protects them, you cannot have anything, but in reality that does not confirm that you never had what you claim.

Because in any court they might on that expert statement believes them, therefore because people believe lies before the truth which was my first lesson in medical school, appears to hold true.

That is why now I am making public the FACTS no ifs no buts.

So it’s on record in the public domain, so if robbed again the proof that I did buy such products can not be denied, as the law in the UK can at this time do.

But then it shows financial people that something different is going on, maybe there is something to invest in – after we hit the marketplace its too late to think of investing – we are there, type A shares ends at that moment, only B type shares will be available.

All this crap about wanting 51% of the company is absolute insanity – this is an international organised consortium where it is team work for market success, not greed intent!

I hope that you are reading me loud and clear upon this issue.
You have just two options: join now before we hit the market place or forget joining at all.

Our attitude to the workplace has to change and fast if the Homo sapiens are going to progress into deep space operations and at the same time try to slow down the death rate of this planet.

You may think that is some joke – so did millions of others whose life were cut short – some extremely short – but clearly you don’t think such will happen to you – just like those dead, they thought the same as you, but discovered that they were wrong unfortunate in their case far too late to save themselves.

Looking at the domain of energy and transportation, is no joke, as today the cost is over 1000% what it would had cost if this work had been supported in the correct manner back there in 1946.

But that lack of support has now to be paid for in financial terms – an education project that it is unwise to leave for another day what can be done today – and I know that to be true – from my own hands on experience trying to replace that stolen goods of mine, whose cost is now over doubled to that of 2000.

This document presents my accepted findings as I carry out assessing the status and needs of research into magnetic propulsion and levitation in relation to possible future modes of ground transport.

It reviews the state of the art as I understand it and draws conclusions about the important research, and research attitudes, needed to form a basis for sound future decisions, are they negative or positive, on the adoption of new modes of ground transport.

This document also points to the needs for a similar review of aerodynamic aspects of high-speed ground transport and a detailed assessment of the equipment for full scale testing facilities; as you know that British Rail was prepared to offer me a test track for a full size train using S.E.G power only for motion.
These reviews have been started.

Meanwhile, I am publishing this document so that it may be widely read and commented on which should be sent to Prof. Searl and form a basis between other top people who are interested in such technology and will form the basis of discussion on the web and universities and polytechnics; on the best way to develop the necessary programme, this is meant to embraced all institutions of higher education whose staff undertake research.

The extent and type of Searl International Space Research Consortium support on the comments received, on the financial resources made available to the Searl Internationals Space Research Consortium and on the outcome of the continue reviews and discussions.

The committee thanks the Chairman of the panel and all others who contributed to this valuable document.

347: Two events in 1973 set the scene for the study reported within this document.

These were the government’s decision not to take up the direct support for the work of Tracked Hovercraft Ltd or of its test track at Earith and the recommendation of the select committee on Science and Technology that the Earith facilities should continue to be available and moreover form a focus for research by universities and industry.

In view of Searl International Space Research Consortium responsibilities to engineering and research and the interdisciplinary nature of the subject, the Searl International Space Research Consortium engineering board invited a special meeting drawn both from the workforce and the media and from elsewhere in the field, to undertake a review of current support for, and any future needs of, Skill research workers whose skills and interest are relevant to the technology of advanced forms of ground transport.

In presenting these reviews such as this John Searl is aware that the situation represented will, or at least should, soon be overtaken by events and developments in the art, and indeed, one aim of publication is hope that such developments will thereby be accelerated.

Not infrequently such reviews are also called upon to strike a balance between the ill-defined, long term needs of society on one hand and the importance of encouraging fundamental research which may transform the criteria whereby these needs are judged on the other.

In that respect this document has been a particularly awkward one to carry out, lack of photos has not helped.

In particular, innovation on a national scale involving massive expenditure as the Searl Technology is necessarily associated with a lengthy time scale and economic planning operations and resources which are neither available to, nor the responsibility of John Searl.

At the same time, probabilities must be taken into account and due note taken of common tendencies for too precise predictions to be made too early and for necessary technologies to follow rather than to anticipate the recognition of social and common needs.

Furthermore, the Searl International Space Research Consortium committee primary role is providing advanced training of scientists and engineers and advancing knowledge in science and engineering to form the basis of future developments in technology.
In reading this document it is important that the above considerations be borne in mind.

**SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS:**

1) This document surveys the needs and prospects of the development of ground transport modes; to my understanding at this time, with particular reference to magnetic levitation and propulsion (maglev) technology.

An assessment of the state of the art has been made and this has been used as the basis both for a review of current R & D activity in universities and industry and for projections about desirable future Searl International Space Research Consortium research.

2) Searl International Space Research Consortium concluded that:

The prospects for the adoption of maglev techniques for the slowly evolving urban developments, or for inter-city ground transport at speeds in excess of those of APT, are at best highly uncertain.

To my mind I feel that the APT will fail in the UK as design appears to be unsuitable for the mass of bends which are involved in the UK system, why they are spending such vast sums of money to develop it, when they refuse to spend a penny on the S.E.G. system which stood a far better option.

One important reason for this uncertainty is the lack of knowledge of the technology, and therefore of the likely cost and performance obtainable, particularly at high speeds, when seen in the context of the present world economic situation.

These factors are complicated by the fact that the capital cost of significant new development in this area are likely to be very large indeed.

3) The lack of success attending several recent large-scale demonstration activities abroad has underlined this absence of an adequate body of knowledge.

4) The resolution of the fundamental issues requires a major effort to build up a better understanding of the technology and it is in this document that Searl International Space Research Consortium has a role to play.

5) More specifically our comprehension of the theory, design and performance of the various forms of linear motor is inadequate.

Although some forms of magnetic levitation are better understood, the complex interaction of the two systems in the dynamic situation is largely an unknown area.

Aerodynamic effects compound the problem and also need to be reviewed.

6) In building up the required understanding there will soon be a need to proceed a full-scale testing in order to narrow the options and it is believed that a large rotating rig will shortly be required.

At the moment the design, cost and organisation of such a facility can only be tentatively indicated and a detailed study is required before any case, which will obviously need to take account of intervening developments, can be made.
For present purposes the indication is that a facility of this nature could lead to a possible future commitment of £2½M over 5 years at present prices.

7) Searl International Space Research Consortium recommended that:

8) Searl International Space Research Consortium should encourage the development of all sound proposals for analytical studies of the various possible forms of linear motor and magnetic suspension systems.

9) Particular encouragement should be given to projects which includes the Searl Effect Generator from the experimental verification of the analysis, show a proper appreciation of the economic implications for full scale systems and give consideration to the vital importance of human factors and a safety in all possible failure modes.

10) The present Board Committee should be reconstituted with the following principal aims:

11) To stimulate relevant interests and research in Searl National Space Research Consortium sectors.

The present committee regards this as a matter of urgency and a new panel will need to be set up for the advanced ground transport systems to control its research and to report to the committee by the end of 1975 / 1977 sessions.

12) To examine, in consultation with government, the detailed case for a rig and, if favourable, its specification, sitting, management arrangements and cost, which no doubt will spiral in the future.

13) To undertake a detailed review of aerodynamic aspects of high speed ground transport and associated research requirements.

349: INTRODUCTION:

Research and development requires careful watch of the world marketplace as too study the window most suitable for your time and development to fit into.

Therefore the window in the marketplace is without doubt that of urban and intercity advanced transport systems and Searl International Space research Consortium and should target for; as one line of research and development.

Thus, what has happened on the marketplace is vital in Searl International Space Research Consortium future operations as to save costs and time; and this document is solely for that objective.

1) To my understanding that in February 1973 the Government announced its intention not to take up the direct support of research and development work then being carried out by Tracked Hovercraft Ltd for the National Research Development Corporation, or the test track at Earith; or the Searl Effect Generator system.

The Government’s decision was based mainly on its evaluation of the market potential for new high-speed transport systems in the foreseeable future.
At the time, the Parliamentary Select Committee on science and Technology began an inquiry into track hovercraft and a report in July 1973 criticised the Government’s decision and recommended continue support of the Earith facilities.

It proposed that a focal point for research by universities, industry and potential users of linear motor and allied technologies was necessary and should be provided.

In particular, it commended the proposals by Imperial College, submitted in evidence to the Committee, for the establishment of such a centre.

Throughout 1972 and 1973 reports were sent to the Government upon the Searl Effect Generator system, even I personally visited the head of the green group at Parliament house MP and spent time discussing its structure and operational functions, and promises were made to me.

So it is not a question that the Government don’t know about my technology, it’s a question that they would not be able to make a fortune in taxes from it, therefore will leave it in the back room until such time they are force to accept it because its on the market.

2) In view of the responsibilities of the Searl International Space Research Consortium in the funding of research facilities for our engineering groups, the committee decided at this time to carry out a general review of its own current research support and the future needs of our research workers in the field.

A committee was established in 1973 to undertake such studies and to liaison with the Government departments and indeed has been involved in complementary activities of the Department of Industry.

3) The terms of reference given to the committee was:

4) To review the Searl International Space Research Consortium support for research in advanced levitation and propulsion systems in a national and international context.

5) To identify any important areas for research in the field requiring priority with special reference to the need for track and vehicle facilities.

6) To consider and appraise applications from Searl International Space Research Consortium and elsewhere in relation to the issues raised in (2) above.

Within the term advanced levitation and propulsion systems the committee confined its field of interests to:

i: The design and control of linear motors of all types and this includes the Searl Effect Generator and levitation systems as they relate to ground transport in both high and low speed applications.

ii: Power pickup at speeds in excess of 150 Km / h and power distribution.

iii: Aerodynamic aspects of high speed vehicles.

7) Subsequent to the establishment of the committee and its first meeting, the S.I.S.R.C received a draft proposal in March1974 from the panel including S.I.S.R.C.
The submission contained an indicating summary of areas of research interest together with proposals for a grouping or centre of interest connected with the use of the facilities at Earith.

The proposals envisaged that Searl International Space Research Consortium would accept responsibility for the continuance of any facilities which are available including that at Earith. Owing to the planned closure of the Earth site at the end of June 1974 the committee necessarily concentrated initially on the merits of this request and postponed the wider review required by its terms of reference.

On the basis of the evidence and arguments put forward both in the proposal itself and in a meeting with representatives of the consortium, it was decided that the proposal be rejected. This will always be the problem when there are far too many cooks involved the soup will be spoilt; an old Chinese saying – how true it is, even today.

8) Following resolution of the Earth issue attention moved on to the general review of current S.I.S.R.C support in this field and to the future needs of the subject.

In particular, the panel considered the usefulness of large scale research facilities and the timing of the need for these both in relation to the present state of expertise of the university community and the long term prospects for new, sophisticated transport systems.

9) Apart from formal meetings of the committee, I John Roy Robert Searl has made visits to Sussex and Warwick Universities, Imperial College and the British Rail Laboratories at Derby; which have been reported within my books of that period.

Committee members on my behalf have also taken part, jointly with representatives of Department of Industry, in visits to LML at Grenoble, to RAE and ARA at Bedford; I have also been to Bedford University and seen the top scientific laboratories that occupy the complex there.

Committee members also visited the Rutherford Laboratory to study the operation of, or potential sites for, a large rotating rig.

Although the panel checked out this consortium which represented a significant part of the total university community active in this field it was no means the whole.

Separately from the above programme of meetings and visits, the panel therefore organised a questionnaire to universities and polytechnics regarding linear motor which the S.E.G. is and allied technologies.

This programme has helped the panel enormously to arrive at its conclusions and it wishes to thank all those who participated in whatever way for their views and assistance.

In summing up the committee meeting:

John Roy Robert Searl presented to the committee his solution:

I shall construct a model rail system which will operate unmanned 100 trains throughout my 10 hours lectures to the general public to demonstrate that the S.E.G. technology can cope with such operations unmanned.
And to prove that I did undertake from my own pocket the money to set up that rail show here are four more from that 100 trains sets that was on 10 hours display none stop.

**TEE FS Railcar train “LIGURE cost me £45.00.**

In 1957 the Italian State Railways put in service a number of fast trains formed by two railcars coupled together, and to my knowledge were used to connect important European towns of the countries adhering to the Trans-Europe-Express convention.

These countries were:

- Italy
- France
- West Germany
- Switzerland
- Belgium
- Holland
- Luxemburg.

Of course I could supply a mass of data upon these trains, but I will not make you suffer here.

**BANDIERS “VESUVIO” cost me £46.00.**

The Italian home service with TEE trains called GREAT COMFORT consists of 4 lines all radiating from Milan; I am certain you don’t want me to go on and on about this train.
TRENO DELLA BRIANHA “1888” ordered 26TH June 1978 forgotten what I paid for it.

LORELEY – EXPRESS cost me £72.00.

I will not bore you with all the information I know about this train, only to state that this wonderful display was stolen while I was in the U.S.A. lecturing and sold for pennies I guess by members of my own family, who had no idea of the real cost involved.

I did replace that demonstration set up for the second time many of which were German war trains, guess they are no longer obtainable.

Well you may not appreciate that these trains operated from an S.E.G, and they controlled all the operation functions.

351: This document has been released to the general public by the authority of:

Prof. John Roy Robert Searl. Head of research and development. Advanced Ground Transport system.

Transportation has the problem of creating pollution which generates climate change –there is no doubt in my mind upon that issue, since 1946 I have been hammering this problem to be, but alas as always the experts knew better that there was no global warming, and you believed them, that surely amazes me how so many people can be fooled so simple!

Wherever I look I see the changes which are taking place around me, I see the news what is happening around the world, to state that these are just season chances is I feel failing to observe in reality what is going on around you – but just seeing what your mind only wants to see

It’s more like religions. Every one trying to prove it in their world of fantasy as true, but no proof of worth turns up in the world of reality as yet that convinces me of its true reality; just like the corn circles lot of fantasy but no reality that supports their claims.
My job no matter whether you like it or not – as my world is strong reality – thus you have to accept that I will deal in reality, and as such will present how I see the world and you.

So I shall commence with the problems I see today because it will affect my work and what you will be paying for everything you buy no doubt.

As banks, governments and companies scramble to manage the growing credit squeeze just what is the likely impact going to be on the electronic component markets in the short – to – mid – term?

For almost twenty years the UK has enjoyed easy access to personal and business credit, but it looks increasingly likely that this will not continue, at least in the short term.

Credit will still be available but the criteria for both borrowing and lending money will change and this will inevitably impact the UK electronics markets.

How successfully our industry manages this change process by self interest, shared common interest or litigation will help determine the outcome.

From where I am sitting; it’s probable that the ongoing turmoil in the global financial markets will continue into mid 2009 and will eventually filter down to businesses and consumers in the UK, who ultimately will have to pick up the bill for the imprudent lending practices of the banking system.

I feel that 2009 is rather under the time period it will take, knowing the past records of business; but there is a 50 / 50 chances of being wrong on this issue.

Global economic growth is set to stall and the UK Treasury has already forecast a reduction in domestic GDP Gross Domestic Product growth in 2008 and now expects it to be in the region of 360.
1.75% to 2.25%; that now, I do not accept that as reality; as I expect that to be less.

I understand that some economists believe that is being overly optimistic, so do I.

In an attempt to stimulate economic growth most central banks will lower interest rates and in the short at least will accept the resulting higher levels of inflation and volatility in currency exchange rates.

However, most banks and companies (especially publicly quoted companies) will need to improve their liquidity (cash) position in order to offset the declining value of their assets and share price, which will at best result in a one to two years credit squeeze.

**EFFECTS ON UNTHORISRED DISTRIBUTORS:**

The UK electronic equipment market is primarily driven by commercial demand for equipment rather than consumer products, which are largely produced in Asia.

Changes in commercial demand will quickly impact UK markets.

In the UK, Authorised Distributors of electronic components serve a very wide range and diverse range of customers and end markets wherein the continual change in the economic cycles of customer end markets generally serves to balance demand.

However despite the increased pervasiveness of electronics in a wider range of applications the market may still be susceptible to a slowdown in commercial and consumer spending.

Even at lower interest rates a credit squeeze forces all organisations to conserve cash and review the performance of their assets, particularly ‘near cash’ assets.

In the case of electronic component Distributors and electronic equipment manufacturers ‘near cash’ assets are primarily inventory (raw materials, work in progress and finished goods) and payables.

As I understand it that most volume manufacturing organisation have implemented ‘lean manufacturing’ techniques to reduce their work in progress and cycle times, and depend instead on distribution partners and outsourced manufacturers to supply products to meet their needs on a minimal inventory or “just in time” (JIT) basis.

And it is this: “just in time” unfortunate in reality that is not just in time, that is my major problem, the 5 cables I ordered on 10th of April 2008 should had been here the next day and, they are still not here on the 21st April. And they have only got to come from Yorkshire, England. No wonder England has gone down the cesspit.

This strategy places Authorised Distributors in a particularly difficult position because they have to continually balance inventory purchases from manufacturers with fluctuating lead times and changes in customer requirements.

A credit squeeze also demands the lowest sensible inventory investment at a time when customers are looking for maximum pre-post-sales service levels.

Fluctuation in currency exchange rates is an additional pressure for Authorised Distributors who
Often trade to multiple currencies, purchasing in US Dollars or Euros and selling in UK customers in pounds.

Managing the competing demands from a wide range of customers for common components and/or buffer inventory, whilst managing extended customer payment terms and maintaining adequate liquidity, is a delicate balancing act particularly when lead times get extended.

Unfortunate many customers find that the easiest changes to implement and manage in difficult times in the payments due to their suppliers.

Materials Management and Procurement terms across many UK electronics companies have worked diligently to establish a robust supply network in which there is a high level of mutual dependency.

This must be protected: customers have to seriously consider the impact on other partners in the network and discuss their plans with their suppliers before deciding to unilaterally change their payment terms.

It is important to ensure that Finance terms are also involved and can confirm that the revised payment terms agreed will be rigidly adhered to.

When the chips are down it’s only by frank and open communication with supply network partners can customers be assured of long term continuity of supply. High service levels and mutual goodwill.

354: This document has been released to the general public by authority of:

Prof. John Roy Robert Searl: Head of research and development. Human studies.

355: Today, Monday 21st April 2008 at 1826 hours BST.

Received from CPC a PC cable tester, with so many cables the robbers just ripped out of the equipment they stole, need to be fully tested to check they are still suitable for use.

Cables are costly to buy; what I can save from these cables in this rebuilding of the equipment will reduce the struggle in trying to re-buy new cables, agree some new ones are needed.

Though I have recently brought the Audio power cable tester, there are still other cables that must be obtained and before installing them to be tested for OK, but in the end I shall achieved this impossible task and be fully switch on to start the work which should had been done.

362.
Today, Wednesday 16th April 2008, from the business world I received this report:

UK advertisers are rushing to bid for keywords trade marked by rivals to take advantage of the changes to Google’s paid search strategy in the UK.

Energy supplier Npower intends to bid on terms relating to its competitors as part of a strategy to build its brand online; other advertisers, including Diageo, Mercedes Benz, O2 and Domino’s, also to my understanding, plan to review their strategies.

“It’s going to be like the Wild West for search advertisers”, from where I am sitting: The changes to Google’s policy mean that consumers using the search engine to hunt for specific brands will for the first time receive sponsored listings for the closest rivals.

The new rules are expected to cause the cost of paid search advertising to rocket, forcing the UK’s biggest on line advertisers into conflict.

The changes: which come into effect on 5th May 2008, to my understanding; have been described by the IPA as ‘radical’ and ‘unexpected’?

The body’s head of digital, Nigel Gwilliam, said:

‘This unilateral move by Google shifts the goal posts for all brand owners in the UK’.

To my understand; that the IPA plans to call an emergency meeting with Google to ask it to delay the introducing of the strategy, which it claims will have a massive impact on offline activity as well as paid search and on line advertising.

This is just to let you know that I am watching you watching me watching you including the market place; after all there is where my target is, what takes place there might affect me in the long run.

Of course I can write millions of facts upon the market place of to day but that can wait no hurry yet for the market, maybe late in the year.

As I have stated so often over the years going to the marketplace with new technology will be tough, as each year fails the cost rises cause mainly by increased wages charge, which affects everything you need to buy.

The latest date which this work should have been backed was 1968, today the pollution factor would have been under control and the economics would have been stabilised.

But no you knew better, I was wrong – really – very soon now you will pay the price of ignorance and you will blame the governments not yourself the real cause of this sudden increase cost.

Agree that governments can now use global warming and global change as an excuse to increase taxes by increasing fuel charges; which is one of the four top base lines which controls your life in the domain of finances.

As the poor take to the streets to live the richer will find that they will have to pay more and more, as firms are forced to shut down; more and more people are out of work; increases the cost that the government has to pay out with no return from this mass now on the streets.
All this will result in disease spread and increase across the UK with less hospitals and medical staff to cope.

Today, Wednesday 23rd April 2008 Received at 0800 hours BST from Soundware one motion drive Tokyo console MD-P1, but had a shock on seeing the price that I was charged.

On Monday 7th April at 1423 hours BST: I went on line and noticed this add and felt that may just help me to create good sound tracks on my videos being converted to DVDs as clips for www.swallowcommand.com where there is no sound available on them.

They stated 5 days delivery and my visa card was debited for £199.00, now you can understand why I do not like buying goods on the internet, delivery dates don’t agree, or they try to tell me that my ID or PW don’t agree, strange to my mind that order was on my reply return to them, strange they got me on that ID.

Not only did this take 16 days not 5 days as stated, but increased charge now of £204.99, so I am left wondering if they charge me twice, which will no doubt take a month to find out if they have; clearly you can understand why I will never again deal with that company.

Also upon the subject of ordering on the internet: the cables ordered on Monday 10th April, 2008 at 1523 hours BST, with the help of Morris an order for 5 cables were placed with Mr Khadam Hussian of www.veriplus.co.uk which was stated delivery 3 – 5 days visa charged.

Today, Wednesday 23rd April 2008 at 0910, I still have not received them, clearly I would not order again from them; I have sent an e-mail to him, so far he has not replied.

This is my world, the world of reality not fantasy, the true world which exposes the poor standards of a number of firm’s dealings with their customers, one major point which turns off customers to deal with them.

Today, Wednesday 23rd April 2008 received news that Tesco finest hits £1.2bn sales to become top grocery brand – well I guess they could well reduce their prices to the customer, one thing milk could be reduced to £1.35 on a 6 pint bottle and still make a profit, then why charge anything from £1.89 to £1.98 for the same?

Today, Wednesday 23rd April 2008: Received news that the government wants to persuade people that drinking alcohol can impair sexual performance as part of a £10m campaign intended to combat binge drinking.
Amazing, why spend that amount on sex; when they are drank they are going to rape people regardless, or kill them or both.

It would been better to put it on cleaning up the country guns and knives problem, every home being searched for such weapons by the military and those with weapons be public birched on TV And all weapons which are found, destroyed in public.

The drunks just birch them in public for 7 days that should cure that problem, they bee far too busy to solve to sit to find time to drink.

It is time our government woke up and spent some evenings and late nights from Friday to Sunday and see what drinking does to the work loads on hospitals staff; then they can see why the bill to the national health is so damn high – answer insanity brought on by binge drinking.

Dear Government I bequest thee to take note of the solution to reduce this cost to the National Health bill, strip them and birch them until they begged for mercy, how many more people are going to begged you to listen to the solution. We all cannot be wrong about the solution – you are the Government if you cannot do your job then step down and invite me to take over, I will do the job with no ifs or buts; I would clean this country up fast.

I can be certain once evil people see what will happen if they are caught will catch the next flight out of the country, thus it would quickly deter evil ones to come here.

I guess within 6 months every woman and child will be free to walk the streets without fear of being attacked, assaulted or raped or killed

I would make it clear to them that evil will not be tolerated within the United Kingdom under any circumstances whatsoever – ignorance and drunkenness will not be accepted as excuses for committing a crime against another person/s.

So you better watch out that I do not become the Prime minister of England, because I will show no mercy for evil persons acts regardless of whom they are.

It is time to re-start the task of creating human beings, which are lacking at this time on planet Earth.

The need to remove that cancer from society is without doubt an urgent matter and should be the responsibility of all Governments to tackle now, no more softy actions which results in this cancer spreading around the world faster.

Governments please take heed to our needs to be protected from this evil, before this cancer controls the world; which Hitler tried to do but failed, this cancer is even worst; yet no real action so far to date has been seen to clear it out of society.

Agree, I accept that of late the police have been lucky to unearth parts of this cancer but the courts have failed us by giving them soft treatment instead of putting them out of their misery for good thus saving many innocent lives in the future.

Yes, you have your answer that it don’t save anything, it don’t cut down more fools joining in as if it’s a game of chess – really – I disagree upon that issue – just let me take over this issue we see if in 12 months that the number joining these imbeciles increases or decreases.
There are times where you must be seen to be hard to make fools understand that what you are saying to them is that such behaviour shall not be accepted under any condition in a human society; that if you cannot understand that then pain will be applied to make you wish that you did conform to a standard by which all men, women and children can live in peace and freedom of movement without fear of being attacked.

It is time to become human!

It is time to be seen taking action to address such issues that this is just one planet, every one regardless or skin colour or where they live as the human rights to mover wherever they needs take them in peace, and the right to gather together to help each other back to a living standard that is worthy of being called a human being!

It is time for you to help to create this paradise for all mankind by working in harmony together!

My pledge to all; relates to human needs, we must make the care of people our first concern, treating them as individuals and respecting their dignity.

Work with others to protect and promote the health and well being of those in our care, their families and carers, and the wider community.

Try to provide a high standard of practice and care at all times, surely that is not too much to ask in a society of human beings

If Star Ship Explorer does become reality, and I can confirm that in Thailand work upon the study of the structure concept is progressing and may during 2008, undergo wind tunnel testing, or maybe more precise, hope that it will reach that stage during the year; it depends on finance being available.

**LEARNING OBJECTIVES:**
1) Understand the importance of discussing sexuality with patients; and partners – before and after stoma formation.

2) Identify common psychological concerns about sexuality.

Note:

This document relates to all members regardless of rank within SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM.

This is the first part upon the issues of sexuality after Stoma formation.

STOMA (stoh-mā) n (stomata) pl

In anatomy:

The mouth or any mouth like part.

In surgery:

The artificial opening of a tube that has been brought to the abdominal surface

Within SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM sectors there will be special nurses involved and upon all long duration deep space missions; should such become reality; will also carry as members of the flight crew these category of nurses.

They will carry rank according to experience and skills; and the sector of the company medical division they are listed as:

STOMA THERAPIST:

A nurse specially trained in the care of these openings and the appliances used with them;

Stomal adj.

I shall attempt to outline the importance of holistic nursing care for these patients.

You may wonder if NASA has this problem to deal with – to that question I think the answer is that they aim to change staff in the International Space Station at regular short term runs that they do not expect such problems to happen requiring such intervention.

I can only hope they are right upon that issue, but SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM operations are entirely a different domain of functions to that of NASA at this time.

SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM can not take chances and gamble; it has no option but try to account for all possibilities which could occur on years in space in the unknown regions of space.

Our total knowledge of our universe in relation to its structure and functions is about that of a grain of sand on the beach; yes you might find that hard to accept as FACT!

367.
But from the viewpoint here I might be wrong, the masses might know more about space then they do about planet Earth state of health; including the dangers which are sitting on our doorstep waiting to strike us.

Nevertheless, I shall continue this report which is important to SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM.

Health care professionals, as they shall be referred to; often find it difficult to discuss sexually with patients due to embarrassment and perceived lack of interest from patients – \textit{WHY?}

The only animal in the world that is so insane about sexually – except for a small minor group that accepts reality as all other animals do, the rest of the world population cannot accept reality, and therefore absolutely useless in crew members who will be on missions for years at a time.

However, evidence including my own hands on experience on the wards suggests most people undergoing stoma formation have concerns about sexually.

From my website releases you do not have to be a patient or a psychiatrist to expose this problem of the lack of reality to life, this world of fantasy these people are living in; exposes it loud and clear; how sad the world is for this animal termed Homo sapiens; no other creature suffers from such mental illness over sexually.

Sexually is the most important part of life cycle, and many things do go wrong within these structures and their functions; and if you cannot accept the reality then you suffer and your life cycle is cut short as payment for ignorance.

Equally, this research suggests that patients are often too embarrassed to ask questions, perhaps believing practitioners will not be interested.

I have to admit here that I do accept that point as fact; I personally know that is true in some cases from my own experiences.

I agree that there are doctors and doctors, nurses and nurses and their attitudes vary between individuals; from this seat, I am completely all ears and eyes to all people’s problems regardless what that problem is, I have no choice but to listen, take note, investigate the problem and find a solution to it.

For the future success of the SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM will depend entirely upon getting all of the sums right the first time; as there may not be no other chances available.

This means that sexually and stoma is often neglected as an area of care.

I, Prof. John Roy Robert Searl, hereby declare that sexually is part of reality, it’s the most important part of life cycle for all creatures regardless of what and therefore is part of the training course within the SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM to certify that flight crews are fully educated in the field of reality of living together and having to rely upon each other for life support in an event of an accident or unexpected illness.

Even though I personally feel that no flight members will throw up any unexpected illness, but at the same time I must make allowance for the possibility of such; actually becoming reality, taking the issue of an accident, that has to be accepted at least 10% possible on many years space mission
REALITY:

BODY IMAGE:

Figure 16 (a) an anterior view. (b) A posterior view.

Human male:

1) Facial
2) Cranial region
3) Posterior neck
4) Anterior neck
5) Shoulder
6) Thorax
7) Nipple
8) Brachium
9) Elbow
10) Cubital fossa
11) Abdomen
12) Umbilicus (navel)
13) Antebrachium
14) Wrist
15) Hand
16) Natal (gluteal) Cleft
17) Fold of buttock
18) External genitalia
19) Thigh
20) Patella
21) Popliteal fossa
22) Leg
23) Ankle
24) Foot

The Homo sapiens body contains a large number of structures each containing a set order of functions, any of these function malfunction you could be in serious trouble.

All flight crew members on deep space mission must fully understand not only the structures of their bodies but what their functions are for healthy existence on space missions.

You sure have confirmed to me the amount of brainwashing which has occurred with the Homo sapiens over the ages.

And I can clearly understand where that brainwashing came from.

To my mind just studying these outer structures of the male Homo sapiens alone amazes me, how is it possible to be real – or are we just an illusion so well performed that we do really believe that we exists; did the Greeks in ancient time also question this issue?

Yes this is what is termed a body image that is what concerns me in relation to commercial space operations – that is what will hold up NASA sending man to Mars – or even to think about sending man out beyond our solar system – it is going to be a major task for any one to do.

FACTS:
In western society huge emphasis is placed on body perfection, and body image sexually is inseparable.

16 (a) an anterior view.  (b) A posterior view.

**Human female:**

| 1) | Facial region | 2) | Cranial region |
| 3) | Posterior neck| 4) | Anterior neck |
| 5) | Shoulder      | 6) | Thorax        |
| 7) | Breast        | 8) | Nipper        |
| 9) | Brachium      | 10)| Cubital fossa|
| 11)| Elbow         | 12)| Abdomen       |
| 13)| Antebrachium | 14)| Iliac crest  |
| 15)| Umbilicus (naval) | 16)| Wrist        |
| 17)| Hand          | 18)| Natal (gluteal) cleft |
| 19)| Fold of buttock | 20)| Mons pubis  |
| 21)| Thigh         | 22)| Popliteal fossa |
| 23)| Patella       | 24)| Ankle        |
| 25)| Foot          |

Yes, indeed this is the body image of the Female Homo sapiens; which for deep commercial space missions you better understand its different structures and how each of them function, and what can go wrong, most of all how to spot it quickly while you have the option to correct it before its really damaged.

I am deeply concerned that if Star Ship Explorer actually becomes reality, and I must admit that now is a possibility to become a reality sooner then later; and there are no suitable crew members in place, then all that effort to design and create such a technology, let alone to raise the funds to create it would all be in vain.

At least from the point of deep space missions, agree could be display unit at public shows.
Do not forget that each of these structures contains other structures in many cases and they all present an issue for study when we talk about going to Mars.

To talk about going to Mars you have to talk from the domain of reality not fantasy, you got enough experts from the domain of fantasy; out there doing that for you.

Moreover I do argued that body image involves more than the physical, including the emotional experiences of pleasure and pain, and must be considered as everything that defines us as humans, which in many cases may not be the correct word, but will do for now to cover the few who are human.

I do sincerely accept that the above reported states is a major concern for many stoma patients, causing to my accepted knowledge base about 25% to suffer a psychological health issue within a year of surgery.

SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM shall in their peri-operative care of stoma patients is imperative to ensure good psychosocial out comes and improve quality of life.

360: **STOMAS:**

Stomas are artificial openings created on the body surface as an alternative route for waste removal when the normal route is no longer viable.

To my knowledge, it is estimated that over 13,000 people undergo stoma formation in the UK annually that is one thing which concerns me for long duration mission in deep space, as I have no information on bowl actions after long periods of time in space.

Stomas are created for a variety of reasons see the box below:

<table>
<thead>
<tr>
<th>CONDITIONS REQUIRING STOMA FORMATION</th>
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<td>COLOSTOMY</td>
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<td>Most common indication:</td>
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<td>● Carcinoma</td>
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<tr>
<td>Other indications:</td>
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<tr>
<td>● Diverticular disease</td>
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<td>● Crohn’s disease</td>
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<td>● Irradiation damage</td>
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<tr>
<td>● Bowel ischaemia</td>
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<tr>
<td>● Faecal incontinence</td>
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<tr>
<td>● Volvulus</td>
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<tr>
<td>● Trauma</td>
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<tr>
<td>● Congenital abnormalities</td>
</tr>
<tr>
<td>● Hirschsprung’s disease</td>
</tr>
</tbody>
</table>

They can be permanent or temporary, which may determine how patients adapt to lifestyle changes.
The reason for formation can also affect adaptation.

For example:

Surgery to remove a tumour is life saving, yet often patient’s feelings about the resulting stoma relate to the fact that it serves as a reminder of their disease and the uncertainty of treatment outcomes.

All these issues I must balance into all plans for the future success.

Here are many physical and psychosocial health issues attached to stoma formation, which can cause patients distress after surgery.

It is necessary for healthcare professionals to understand these issues to provide appropriate care for patients, especially since early intervention is known to improve health outcomes.

I guess there are if I had the hard cash could find a number of reports upon this subject, which I could study, other people’s findings upon this subject.

Unfortunate that substance I am short off; nevertheless I can recall some points relating to the subject to end this report.

There must be many opinion pieces and articles on the subject of body image and sexually but recent research to my understanding in this area tends to be from outside the UK and mainly focuses on body image and quality of life as a whole, rather than sexually as a separate issue.

However, I recall one study highlighted the high incidence of sexual dysfunction following rectal cancer surgery and the need for effective communication between patients and healthcare professionals about this during all stages of care.

Although body image and sexually are closely related, sexually itself requires specific care outside the umbrella of quality of life, as it is very private and individual.

I am aware that there is another report which I do not process unfortunate that deals with best practice guidelines for the care of patients with stomas, highlighting sexual functions as a separate area.

To my understanding: that it made only brief reference to psychosocial issues, focusing more on physical disturbances.

Sexually is not merely the ability to have sexual intercourse but encompasses comfort, human contact, security, self-worth and bonding in a relationship, all of which are inextricably linked to body image.

---

*It’s all about feeling good about your body image at all times.*
There’re guidance specifically relating to the care of patients with stoma and there is the Patient’s Charter makes no mention of specific psychological care.

It is therefore questionable whether current psychological care relating to patients sexually is based on evidence or professional belief about what it should entail.

Sexual concerns regarding stoma formation are often psychosocial in origin and that’s my opinion, especially in terms of body image, evident in most current research to my knowledge that focuses on patients self efficacy and perceived personal control.

I can well understand that these worries include feeling unattractive, other noticing the bag under clothing, and concerns about odour, leakage and the bag coming off during sexual activity.

I do understand that formation of a stoma negatively impacts on sexuality and body image, all patients that I know and talked with do without any doubt believed they had become more sexually unattractive, and to my mind at least, I accept that opinion as correct.

I agree that it’s a push off, more so if you are a very pretty woman and the sexual partner to be is not aware of the facts; would not stop to say goodbye on leaving once he became aware of that bag sadly to say, but true nevertheless!

361:  **PSYCHOSOCIAL HEALTH:**

Issues around sexuality and stoma formation should be addressed early in order to re-establish normal sexual relationships after recovery.

Although a potential change in sexual health would not be life threatening, it can be distressing, lead to relationship breakdown and affect quality of life, so it is considered a major part of ostomist’s care; that is to my mind of thinking.

I accept the opinion that poor psychosocial health can in turn adversely affect physical health, and it is to this reason that I am concern about these problems especially on long durations in deep space missions, where we may meet unknown problems that not only make changes to our structure but their functions as well regardless if such possibility is only 0.00005% chance of happening; I cannot take chances.

I also agree that, while a certain amount of anxiety and stress can aid pre-operative education and coping, too much may reduce patients abilities to make informed decisions and, ultimately, lead to protein breakdown, increased risk of infection, delayed wound healing and electrolyte imbalance.

These evidently affect post operative recovery, making management of anxiety and stress a major aim for SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM nursing staff.

Deterioration of physical health can affect sexuality both in terms of sexual functioning – such as achieving or maintaining an erection and vaginal dryness – and psychologically, since poor physical health can lead to fatigue, depression and negative body image.

362:  **NURSING CARE:**

Pre-operative, stoma nurses often speak to patients about every aspect of care, both physically and psychosocially.
Sexuality can be affected physically through damage to the nerves during surgery, and psychologically due to body image issues, partner perception and loss of libido.

Before stoma surgery, patients’ partners tend only to be concerned with their loved one’s survival but, following surgery, can suffer as many sexuality issues as their partner, so it is often appropriate to include partners in this aspect of care.

However, it may also be beneficial to discuss patient concerns alone since they may hold back some information if their partners are present.

Although nurses play a vital part in ostomist’s care, I believe that surgeons should fully explain the procedure and risk’s and benefits to patients pre-operatively, so nurses should not be expected to disseminate such information without prior input from surgeons.

Nurses can, however, contribute by reiterating information and answering further questions, including any relating to sexuality.

Just a reminder to my 10th newsletter in 1946; that before I die robots will be doing all surgery which will be required even on all other animals which we care for.

I agree that nurses should discuss changes in body image with patients, and how any issues can be dealt with, as this can bring to light issues about the impact of sexuality.

Broaching the subject of sexuality within another topic, or without asking direct questions, is likely to lead to better outcomes than opening the subject immediately, as this is a less intrusive method of obtaining information on an subject many patients find embarrassing and private.

The question which I put to you is this:

**WHY?**

You’re supposed to be educated; explain to me then why is it’s so simple for the rest of the animal kingdom to be able to act nature in the realm of reality, and the animal that likes to think that it’s educated cannot do so?

To my mind that this state of affair is sad that education creates world which is not natural; but instead educate people into a world of fantasy.

I can clearly understand why people get rapped, you create that status with all this insanity about your image, where the reality is that like all other animals you are a robot with I have to state suppose to have intelligence – I yet would like to see this intelligence.

Yes, I understand that it can be argued that cultural background can influence the extent to which patients will discuss such issues but the subject should always be sensitively broached to give patients and partners the option of expressing concerns.

Now I trust that you do understand why SWALLOW COMMAND shall not employ those who do not live in the domain of reality, there is no room therein for such members.

Deep space penetration is reality – nothing fantasy about deep space – fantasy will not get you there – only reality will do that which means the acceptance of your body image is priory in SWALLOW COMMAND MANNED FLIGHT DIVISION.
CONCLUSION:

Clearly, sexuality in relation to stoma formation is an important issue.

It is essential patients and their partners have adequate time to discuss such issues in a supportive and confidential environment.

This is rarely achieved in the domain of reality; behind curtains in a bay where others may be listening, so discussions should take place in a private area where possible.

But Star Ship Explorer operates in the domain of reality, and the sick bay falls in the same domain field, its objective to heal the sick mend the damage whichever is the reason why you have to use that section of the craft.

All flight staff must find no problems in their image at any time, and can freely discuss with one another their problems no matter what, if any should arise during mission.

Nurses should ensure that both physical and psychosocial issues surrounding sexuality and stomas are discussed, and prompt action is taken to minimise deterioration in quality.

On closing this first part of this document, I wish to press home that should ever in the future Star Ship Explorer becomes reality that all crew members are responsible for themselves and, for each other, to certify that the best quality of life can be maintained throughout the mission, to this target I shall work to achieve these objectives; regardless of those who think they will stop it happening.

This document has been released to the general public by the authority of:

Prof. John Roy Robert Searl: Human Studies.

Today, Saturday 26th April 2008 at 0745 hours BST:

I received the last part of the audio side of the equipment with this unit shown here:
I was determined to replace my audio equipment that was stolen from me while I was in hospital with the most up date systems available; to this objective I have achieved just that.

Obtaining the cables to link all this equipment still remains a problem.

The video side has one more problem that is a HD recorder that will play all systems recordings besides recording in the top HD system:

HD Recorder; or

Sharp Blue Ray DVD.

Indeed Blue Ray has got a great name for storage data at HD, but it’s been a task to find a recorder agrees there appears that there are many players available, not recorders.

It is my intention that all new film work that will be produced here shall be in HD top standard as far as possible.

The sound certainly will be, no doubt now upon that issue; all the old videos will be converted as soon as the equipment now here can be cabled up and powered up.

PC 999 is still out of action at this date, due to virus attack knocked out the start up program; so PC333 is undertaking both PCs work load; which means that I have to keep changing settings to check for e mails, so please understand if you do not get a reply quick you will understand why that is which has nothing to do with me not wanting to reply to you.

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From time to time I receive something through lines of communication which I have to give credit to the sender for his / her efforts to create something interesting to see; and I am proud to present one such persons effort right here:

**Harvey Heinz  Mass Model  - 2001**

![Image of Harvey Heinz Mass Model](image)

The idea for this novel magic square was sent to me by Craig Knecht on June 5, 2001.

This is an order-5 pandiagonal associated magic square. The numbers in each cell are represented by metal washers. In this picture, the model is suspended from the ceiling to illustrate the balanced nature of all magic squares.

The 325 metal washers give this model a weight of almost 2 pounds.

This is a square 5 concepts which belongs to group one structure; but not the structure I require for the S.E.G. product.

After all these samples shown it is now time for you to prove that you too can do them.

Here is your test sample:

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The sum of this square = 2125 and the start value = >1.

It’s a group one class, therefore it is simple to work out; so you too Harvey have a go mum won’t know if you don’t tell her.

I, Prof. John Roy Robert Searl, hereby confirm that I do receive some long e-mails from people who say that they have read all my stuff on [www.swallowcommand.com](http://www.swallowcommand.com) and find that some are hard to follow.

That situation is simple to understand that you are not educated nor do you work within that subject domain – that is no disgrace to you – these documents just show the truth of the past.
This work covers all that is known to man plus much more, this is being shown what it is taking to achieve such advance technology.

I must admit that all subjects so far to date are at absolutely at its lowest status, I start at the beginning from various angles in the hope you will learn to understand what is involved within this technology; mainly to show how I started and how the world has change with no If’s or Butt’s: nothing hidden upon any subject which includes the Homo sapiens how you are constructed what we know about you, what can go wrong and why is in question, your fancy dress I don’t want to know about, as that is not you, just an image, I am not concern about artificial image, as I cant do nothing about that if it go sick, but if you go sick the chances are that I can help you.

Star Ship Explorer is just an image on paper and in a data file on computers, and work is about to start to model it, both in Thailand and the USA.

Because of that fact, I need to start showing the legal requirements as they were for Star Ship Ezekiel MK.V. Which still meets today’s requirements update where possible.

Of course you do not understand them simply because you are not employed within that domain, if you were; you would understand them; that is how simple the answer is.

I will now release again another document of the past, which is still true today, in a way that is as simple as possible that I can do; as to assist you people to understand reality of this technology.

368:

SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM.

DIVISION : Manned Flight.
SUBJECT : Physics – for our Engineers.
AUTHOR : John Roy Robert Searl.
STATUS : Superintendent of Documents UK.

DOC-SISRC-MFD-PE-F1.
DATE: 10th May 1968.
EDITION: First.
This document provides a background of up-to-date physics to meet most of the needs of Searl International Space Research Consortium students in engineering that are normally quoted as members of the workforce in SWALLOW COMMAND, are nevertheless students on a learning course.

This document will cater for the:

1) **Heat**;
2) **Light**;
3) **Sound**.

This document shall act as the first steps to the Searl Technology: this will present the standards that are equal in information that will meet that of the Engineering Institutions Examinations of this present time interval.

To achieve this understanding it will have to contain an account of the structure of matter and related topics which are commonly included in College syllabuses; and whether you like it or not, I do not care as all this information within this book is the world of reality, the world in which I exists and no time for fantasy.

Each member who joins SWALLOW COMMAND is a student, simply because they are now about to learn new knowledge in engineering, so lessons upon related subjects are vital.

Thus a student first thought is to prepare for an examination and, to help him / her in this; there are many worked examples in this document and at the end of each section a large number of questions and problems of the type set by Colleges and Engineering Institutions.

Searl International Space Research Consortium and is sectors are in themselves indirectly institutions for higher education.

I am quite aware of the many errors in problems arise from uncertainty about units and so a review of basic (MKSA) units is given, so we all understand what I am saying; which I appreciate relates in reality upon your intelligence level.

A quick location of material is essential during revision and I trust that I shall be able to give a full index for easy reference – I can only but try to make it easy.

I have to state that the approach used in this document is direct rather than historical, and I have concentrated more on the explanation of basic concepts than on mathematical derivations, which so many people have stated to me how they hate maths.

I am please to say that knowledge of calculus, though sometimes useful, is not needed to understand the subject matter being discussed within this document.

I understand that students in SEARL INTERNATIONAL SPACE RESEARCH CONSORTIUM may find difficulty at the same points in physics and, therefore, to some extent these points can be anticipated.

As a check, however, a draft in a form of a series of books were submitted to the general public at large including many newsletters to view their comments.

In the light of their detailed observations, I have varied the pace of this document as follows:

379.
Explaining the difficult points at length and describing easier topics more concisely.

It my mind it appears that students usually ignore cross references in the text and so I shall keep them to a minimum wherever possible.

Instead, I shall for your benefits be repeating materials in the various places where it is needed.

In the past, I am aware that there has been a tendency for subjects to be studied in isolated compartments, which I can understand makes students reluctant to apply the principles learned in one subject to the problems raised in another.

As you must now be aware that I formed terms for practical training in the past, to put into practice the theory which they have or should have learnt.

Thus, engineering students often regard physics as quaint and even irrelevant to the Searl Technology.

Sometimes, this is because the relevance of science to the work which the engineer knows to be valuable is not given sufficient emphasis.

Unfortunate that in the case of Searl Technology; everything in science is involved a massive amount of information which is just impossible to present such technology in one small paragraph, more so, as it’s under development.

I agree, that at other times, the examples selected to illustrate fundamental principles appear rather too artificial or contrived, which sadly I have to agree with you is true.

In the case of Searl International Space research Consortium; I have taken every opportunity to integrate theory with practice and I have selected problems which either involve real applications or illuminate the theory particularly well; or at least to my way of thinking.

Whether you like it or not does not matter because physics has its own part to play in Searl International Space Research consortium education of any specialist engineer who wishes to understand more fully his / her own field and contribute to its developments within the Searl Technology.

Within this document I feel that the presentation of physics should not contrast too much with the more empirical approach adopted in engineering subjects.

My aim in writing this document is not only to show that physics is useful to the engineer, but to show that it has a vital interest of its own.

369: **FUNDAMENTALS:**

**PHYSICS AND ENGINEERING:**

As a young boy I could only watch and observed, I dare not ask any question upon that which I observed, for fear of being beaten.

Now that I am a man I question all that I observed, within any manner that concerns me without fear of being beaten as now I can defend myself, which places me in the controlling seat.
Physics to my understanding is the study of matter and energy, and the relation between them, which is precisely what Searl International Space Research Consortium is all about, and I must admit that I am surprised that this educated group of Homo sapiens which proudly presents itself as experts appear not to be able to understand such an elementary statement – really – maybe a jolly good spanking is needed to wake them up that inventions are created by those who minds are not brainwashed by others whom do not wish to loose their image to the world.

In view of this very broad definition of physics, it can claim, more than any other science, to be the basis of both science and engineering.

Like all scientists, the physicist is concern with investigating natural phenomena; and let me confirm positively that Searl International Space Research Consortium is likewise investigation natural phenomena termed the Searl Effect and with understanding the laws underlying them.

At one time, in fact, physics was known as natural philosophy.

Engineering, on the other hand, like all the applied sciences, is more directly concerned with the practical application of natural laws, that is, with developing and putting to use the discoveries which have been made.

Physicists and engineers do not work in Searl International Space Research Consortium entirely independently of each other, of course.

A constant interchange of ideas and discoveries stimulates both in their continual search for a clearer understanding and more complete mastery of the forces of nature.

I accept that society needs the scientist and the engineer to reveal the secrets of nature and to improve the comfort, variety, and security of our lives which is the objective of Searl International Space Research Consortium has been over time.

Let’s face reality; once the inventor has made use of a discovery, it often happens that the new application leads to yet other discoveries.

**FACT:**

When the applied science of the optical instrument maker, Lippershay, produced the first refracting telescope in 1608, it became possible for Galileo in the following year to direct his improved version of it towards the sky and to see for the first time the moons of Jupiter.

This discovery led naturally to new ideas in astronomy, and to a demand for more powerful and more efficient telescopes, which in their turn probe deeper and deeper into the universe.

Again, although it was known since the days of ancient Greece that the world was round, not until the fifteenth century had marine engineering developed sufficiently to enable explorers to embark with confidence across the unknown thousands of miles of ocean and circumnavigate the Earth.

Let me present another issue which is just as important as above issue was.

The reverse of this process is also true:

The physicist working alone can make discoveries which pose an entirely new set of problems for the engineer.
This represents the domain in which I have lived to witness; many of you born much later may never see a miniature value, let alone a full size one which I was using in this period time interval.

In fact many of you young ones may never see a transistor as they will be replaced by ICs.

Time changes our perception on the universe and we must move forward with it – or die!

Figure 16.1.1. Valve and Transistor.

In modern times, radio engineers developed the manufacture of radio valves to a very high degree of precision, but independent research by physicists into the nature of semiconductors led to the invention of the transistor.

Figure 16.1.1: it was clear at once that a discovery of major importance had been made, transistors being small, compact, light and very robust, yet at first it was difficult to mass produce identical transistors in large quantities.

This was a problem that engineers had to take up and work at, until they finally found a way of producing transistors accurately, cheaply, and in large quantities.

This problem is no different to that of the Searl Effect Generator which exists today, and Searl International Space Research Consortium engineers are working out to solve this problem upon the subject of mass producing the S.E.G. accurately and cheaply, it will take time to achieve.

Thus science and engineering are at their most productive when there is a constant interchange between the two.

In the same way, physicists are more versatile when they know of the developments in engineering and engineers are more effective when they have the background knowledge to appreciate the potentialities of new discoveries.

From the beginning of recorded history we can trace the development of man’s curiosity in the face of the mysteries of nature, as he sought to lay bare the fundamental patterns of natural order, and to explain the causes of all the effects he observed.

At first, all mysterious occurrences in nature were attributed to a large number of gods, a sort of divine working party whose job it was to operate all the mechanisms of nature.

The sun was the god Apollo, driving a flaming chariot across the sky, and the moon the goddess Diana, bringing illumination to hunters at night; I guess this is a laugh to modern man that people believed in such things – but even today people do believe in strange things.
So long as men accepted this explanation of natural events, they could not expect to find a system in the universe, for the gods, they believed, had human whims and motives, and were able to indulge these by reason of their immortality and magical powers.

It took a long time for man to adopt a new approach to the problem of uncovering the basic structure of the universe.

A new approach first became evident in ancient Greece, where a race of men with inquisitive and sceptical minds began to observe nature objectively, to analyse and classify their observations, to discuss them, and to formulate theories about them.

They laid the foundation of many of the subjects we study today and made valuable contributions to the science of logic and mathematics not forgetting the Searl Technology.

They applied their mathematical discoveries to the construction of buildings which have never been excelled in beauty.

But they rarely attempted to wrest the secrets of nature from her by force of experiments; they rarely did more than think about the natural events which presented themselves during the course of normal human experience.

Archimedes was an exception and he discovered the laws of levers and invented the Archimedean screw. (Figure 16.2)

The Romans, who took the lead after the decline of the Greek civilization, were fine engineers who put into practice in their construction of superb military roads, bridges, water supplies, and systems of sanitation, the principles that the Greeks had discovered, but they made no contribution of their own to the advancement of theoretical science. (Figure 16.3)

Yes that is the reality of life; we may never know when any product was conceived or by whom

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conceived it before it actually became reality.

Once in while we are lucky to discover who that person was who conceived such products, even if they never produced the actual products.

Yes, I guess you know who this inventor was even though he was never able to construct it.

In my recent life time many of his inventions have now been constructed and tested and I have been likely to watch those test results – they work.

Truly an amazing man when you consider his time period.

Figure 16.4. Da Vinci’s design for a helicopter.

Not so very far from Rome in 1500 A.D. lived a man who combined the abilities of scientist, engineer, and artist in a way never equalled before or since to my knowledge.

His name was Leonardo da Vinci.

He described a possible diving helmet, portable bridges, a flying machine, and a parachute. (Figure 16.4).

Now that last paragraph ring up bells, I guess it does not do that to you – you see my brain hits a problem when things don’t compute as expected.

Here I am talking about a time period from 1500 A.D. A man designs a diving helmet, my mind asks WHY?

Unless there was a need for such a device – then surely people were diving for what and where?

My brain can accept portable bridges as rivers need to be crossed.

Then my brain questions why design a flying machine, unless people were flying around then, if so what in, and why did it all vanished until the 1900s?

While on the subject of flight: there are the claims that an Indian tribe were flying around over 5,000 years ago; but what in and why that all vanished until recent times?

But Leonardo da Vinci, never stop there he continue with other designs.

Strange I understand that he hated war, although he invented several guns and an armoured car, and he would not publish the details of his submarine for fear it might be used to sink ships; that can be hard to accept in reality; clearly there must had been a war in operation at that time.
Not only that he invented roller bearings, a sprocket chain, a screw cutting lathe, and many other things, but despite all of these he is remembered most for his artistic work, notably his painting of the Mona Lisa – that to my mind says that a woman is worth more than all inventions made by man – strange world indeed that we exists in.

Clearly to my mind Da Vinci was hundreds of years in advance of his time, and it was not until the seventeenth century that the foundations of modern experimental science were laid, and scientists began to train themselves in those habits of mind and work which have led in modern times to the rapid expansion of human knowledge.

The progress of science has been retarded during certain periods in man’s history when it was held to be wrong to challenge the authority of the government, the church, and the opinions of certain ancient scientific writers.

From where I am sitting things have not change very much – have they?

Even worse than this have been those periods when scepticism was regarded as a sin, and publishing factual discoveries a punishable crime; clearly the world were already being brainwashed into a world of insanity – today we have discover quicker ways of creating insanity that we all can be proud of.

I can only hope, now that science is quite respectable, that this stage in the development of science is over.

You can find a similar situation, however, in present day social and economic science which is in its infancy.

The belief that public ownership leads more efficiently to the things which man / woman values is regarded as a crime in some Capitalist countries, just as the belief that private ownership is more efficient is a crime in some Communist countries.

From this chair; one day we may come to regard the question as a matter for objective experiment.

Let me take a look at Francis Bacon, the Elizabethan courtier, scholar and writer, was one of the first to my knowledge to advocate the experimental method.

He sure did, he himself died as the result of an experiment in refrigeration.

One winter’s day in 1626, as he was travelling from St Albans which is just a few miles up the road from me at this time, to London, thinking perhaps of low organic decay is retarded in winter, he was struck by the idea that snow might preserve meat just as well as salt.

He stopped his coach at a roadside cottage and brought a chicken, which he preceded to stuff with snow.

Yes indeed the experiment worked.

Unfortunate, the exposure to the snow and cold made Bacon ill.

He contracted bronchitis, and died a few weeks late; which supports the law of the squares that there are always to prime states in everything, clearly here life and death, cold and heat; the cold can preserve the dead; but it can also kill the living.

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Based upon my past learning and observations that it is wiser to give knowledge in gentle bits and never as one lump.

Therefore, I shall take a break here, so you can digest its contents at your leisure.

370: This document has been released to the general public by the authority of:

Prof. John Roy Robert Searl: Human Studies.
Tomorrow’s energy and Transportation Systems.

Again, I have attempted to present the reality of life in its true light, and clearly man’s track record is far from good.

The major problems which I can see is that in the end you will be successful to kill this planet; and there is no question in my mind that you are doing a damn good job at doing just that.

1) Money is your god – clearly no Aliens arriving here could arrive at any other solution.

2) The unions were its disciples that would be their option of their investigation to what life on earth was like.

3) The car is yet another God of the Homo sapiens world; which remains after all life has vanished on earth, which at this moment in time looks like less than 1,000 years to go if lucky.

4) I stated if lucky; I have good reasons to say if lucky; because at any time now life may be erased from planet earth for good and should any one survive I dread what life will be like for them, and how long they would be able to survive after such an event is questionable.

5) Agree, it happen in the past, when all life almost was wiped out, but a few survived; but today, there are far more millions of people living then at that time, and if more than just one super volcano blew at the same time or in sequence, I cannot see how possible any life form could remain.

6) If this does take place in reality, then I cannot see how life will be able to regenerate again from such a catastrophe event; as I can visualise based upon data coming in from space.

7) If we acted like the rest of the animal kingdom and did not have money, life would certainly be far more advanced than it is today – which sure is a FACT!

8) Money certainly slows down advancement – progress in creating that better world lags behind knowledge by years all credit for that belongs to money and the unions.
371: Today, Tuesday 29th April 2008 I received some wonderful photos from NASA which show the reality of their world, which indirectly assist me in my efforts.

Let me confirm here that at no time have I been in any race with them, just face the facts, they had the world industry, top world scientists and engineers and vast amount of cash and has spent millions of hours of labour upon their efforts.

Where as my time in relation to theirs represents only around one minute and no world mass of industry or world top engineers and scientists and certainly not such mass of money as NASA had, and that is a fact and reality of my life.

Another issue is that not like NASA took what had been already invented, but something completely different and had to commence from zero point to develop the concept from which one can model it then wind test that concept.

All NASA staff enjoyed life and what they accept as their human rights they got; where in my case I had to give up what they claim as human rights to be able to carry out this research work.

And yet I have no anti feelings towards NASA, instead I admire their success including that of Russia and any other country who operate in space.

Well done NASA, keep up the good work it is time to show what man has achieved and the time and cost that it has taken to reach this stage of progress.

Each time NASA or Russia sends up people to the ISS my heart and soul goes with them, I appreciate the risks which they are taking for man’s knowledge and understanding of our universe, and I wish them all the success of their mission regardless who they are; for they are supplying me with vital data which is needed for my efforts; hopefully which will be the future.
This book shows the truth about man’s progress on planet Earth, which so far to date there has been no evidences that any other animal, has been able to match that effort, but sadly to state there are other animals who can do things that man cannot do as yet; and maybe never will be able to do.
First let me inform you that picture of me have been taken from a Southern television interview, back there in the 60s.

Through the doorway you can see 2 of the digital timing units for the launching of the I.G.V’s, models, they were and rather heavy and clumsy, but then at the perfect timing a new class of indicators arrived on planet earth that was absolutely right for the Star Ship Ezekiel MK V project and the model Demo 1 version.

Light, bright colour low power operation.

Now this document being released is to explain about this wonderful change in technology that came just in time prove that it had a place in the business world across the great divide of planet Earth and space domain.

They became to be known as LED indicators, I have no objection to that term, and they come under a laser product.

To my understanding: that in 1964, Hewlett Packard established a new division, only just in time having the charter of developing and producing state-of-the-art electronic components for internal use.

By 1975, both microwave and optoelectronics devices contributed to the growing business of Hewlett Packard and the components group was form to my knowledge.

Today, to my knowledge there are three divisions:

1) Optoelectronics division;
2) Optical Communications Division;
In addition to these three divisions there is a specialised team of people to develop, manufacture and market bar code components.

Now the future of the company could see some changes as these divisions could vanish as so much industry has done here in the UK, or new divisions appear either to replace those shown here or to add to them as new divisions.

What will happen to them in the future is not the subject of this document but products which Star Ship Ezekiel MK V could employ within its functions.

The products which Searl International Space Research Consortium requires for its future projects are the subject of the products of the Component Group are vertically integrated, from the growing of LED crystals to the development of the various onboard integrated circuits to package design.

3) **Microwave Semiconductor Division.**

373: **SOLID STATE DISPLAY:**

I was hoping that Hewlett Packard line of solid State Displays would answer all my needs of the design of Star Ship Ezekiel MK.V control panel status indicators.

What was on offer were smart alphanumeric displays to low cost numeric displays in sizes from 3 mm (.15 in.) to 20 mm (.8 in) and colours of red, high efficiency red, yellow, and high performance green, the selection is complete.

Then there are the 5 X 7 dot matrix alphanumeric display line comes in 3 character sizes 3.8 mm (15 in), 5 mm (.2 in), and 6.9 mm (.27 in).

Then, to me that was fantastic break through in data information display requirements, but there is much to learn first.

In addition, there now 4 colours for each size:

1) **Standard red;**
2) **Yellow;**
3) **High efficiency red;**
4) **Green.**

This wide selection of package sizes and colours makes these products idea for a variety of applications in avionics, industrial control, and instrumentation at this time.

To my knowledge that the newest addition to HP’s range alphanumeric display line are two supported monolithic sixteen segment displays.

Both displays have an on-board CMOS IC containing memory, ASCII decoder, multiplexing circuitry, and drivers.

Two character heights are available to fit our needs:

1) **4.1 mm (.16 in)**
2) **2.9 mm (.112 in).**

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<th>Application</th>
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<td>• Portable Data Entry Devices</td>
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<tr>
<td></td>
<td>Operating Temperature Range: -40°C to +85°C</td>
<td></td>
<td>• Industrial Instrumentation</td>
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<td></td>
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<td></td>
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<td></td>
<td>• Telecommunication Equipment</td>
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<tr>
<td>HPDL-2416</td>
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<td>Red</td>
<td>• Portable Data Entry Devices</td>
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<td></td>
<td>Operating Temperature Range: -40°C to +85°C</td>
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<td></td>
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<td>HDSP-2000</td>
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<td>HDSP-2001</td>
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<tr>
<td>HDSP-2300</td>
<td>5.0 mm (.20&quot;) 5 x 7 Character Alphanumeric</td>
<td>Red</td>
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<tr>
<td>HDSP-2301</td>
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<td>High Efficiency Red</td>
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<td>HDSP-2383</td>
<td></td>
<td>High Performance Green</td>
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<td>HDSP-2381</td>
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<td>Red</td>
<td>• High brightness Ambient Systems</td>
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<td>HDSP-2491</td>
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<td>Yellow</td>
<td>• Industrial and Process Control</td>
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<td>High Efficiency Red</td>
<td>• Computer Peripherals</td>
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<td>Red Untinted Glass Lens</td>
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<td>36 Pin Ceramic 15.2 mm (.6&quot;) DIP</td>
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</table>

**Alphanumeric LED Displays.**
Alphanumeric LED Displays (continue)

These displays were claimed to incorporate many improvements over competitive products and are ideal for industrial business and telecommunications applications.

HP line of numeric seven segment displays is one of the broadest which was the class that interested me for this project under development.

From low cost, well it was then, standard red displays to high ambient displays producing 7.5 mcd / segment, HP’s 0.3 in., provide a solution to every display need.

HP’s latest product offering include 0.56 in. dual digit displays and a new line of small package, bright 0.3 in. displays – the 0.3 in. Micobright.

As I understood this: that they were ideal for displaying numeric information in electronic instrumentation, point-of-sale equipment, appliances and automotive instrumentation.

I appreciate that integrated numeric and hexadecimal displays (of course with on-board IC’s) would solve my design decoding / driving problems, at least I can hope it will.

I understand that they are in plastic packages for general purpose usage, ceramic / glass packages for the Searl International Space Research Consortium robotic automatic operated Searl Effect Generator production lines, and hermetic packages for the Inverse-Gravity-Vehicle production lines.

This family of displays has been designed for ease of use in a wide range of environments.

Unfortunate, no matter how I try to recover from the loss from the family robbing me – there was no way I could win, they were determined to stop this work at all cost – that problem was my wife a fully train hypochondriac; I always believed that love, caring, understanding to such people would heal their condition, unfortunate I have to admit that I was terribly wrong upon that issue, no way can you help these class of people.

I actually wasted 31 years of my life trying to solve her problem, and those last few years with her my life’s work slowly disappear from sight, always some robber been in and stole the items – yes that was right – that robber was her plus her children!

Lot of her problem was due to her workmates at the atomic research deport where she worked, who clearly played upon her mind that when I was famous I would not need the likes of her.
Yes, I agree that was a nasty thing to tell a workmate, regardless what they might think about me.

Clearly with money going missing I could not continue to obtain goods so this work ceased, it had been a struggle to try and recover from the 1968 losses as it was.

I do admit that from every point I studied to find a solution, there was no way out which I had any hope of winning except to devoice my wife and that I could not do as I cannot break a legal agreement unless, either she walks out or push me out, whichever they would be no return.

In the end that day came and I was forced out never to return to that party again – and today I must state I wish I had left years before; I might had a chance to have a far better life then I had.

That is why the orders which would have been placed with HP were never implemented.

I had warned her at the start of my marriage if separated she would not get one penny, but alas she thought that the courts would award here a large payment, unfortunate she learnt that when I say no its is no regardless.

In 1968; when I had no option but to close down Star Port Earth One site due to greed, and drop the team that was a sad day as we were to close to success, with a damaging blow from the key worker via the media put paid to success in any case.

374: I guess over the history of man’s endeavour, you will find many other inventors who suffer in a similar manner so I was not alone upon that issue.

This document was released to the general public by the authority of:

Prof. John Roy Robert Searl: Human Studies.

The media did much damage to this work by their action to present this work from an angle that would sell that issue, understanding they have to make a profit, but surely they could had done so with a more effort to drive support to see the work done.

Not from an angle to please nut cases out there who live in the land of insanity, strange I guess all walks of life got their share of them, the medical world always use to have them, at lease back there during 1947 onwards they sure did have them, and I met them.

This book main aim is to show what my life was really like from every angle, because every angle affected the outcome of this project regardless.

Most people for some unknown reason think my life must be great, lots of money – But where?

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It is strange that people think that you are luckier than them.

I had to rush to the loo, the first cubicle was in use by a man mourning and groaning so I had to rush in the second cubicle, unfortunate there was a mighty roar and a major release and the voice from the first cubicle shouted out you lucky bastard, so I replied what do you mean lucky, I did not have time to get my trousers down.

Yes, strange how people arrive at the wrong status about others, maybe its because today there is little communication between people that isolates us in way one do not appreciate what is happening around themselves.

In my time as a young boy we had no option but to bath in the living room before the fire with all members of the family in the room; anyone would wash you back for you – there were no problems in those days, as we progress with a bath room we suddenly change from a family party to individuals and no longer a family accept by blood, not by deed.

As I watch the wild life how I admire their freedom, and their family structure and wonder what has happen to our family structure – it has mainly gone, only by name and not by deed sadly to state.

To be able to understand and to be able to adapt new technology to fit your project under development requires a learning curve; and the best approach is to copy those projects which are available for training on.

For this technology I did just that so that I can understand by what means I can employ such components in this project.

We call it hands on experience – without that experience how could I create such technology that became known as the Searl effect.
My understanding is this; no electronic circuit is going to be of much use to anybody unless it has some way of exchanging signals or information with the outside world.

Unfortunate that is the world of reality; I had to study how I could control 100 trains automatically on my shows.

One technology presented a possible option was optoelectronic, where this new science was appearing on the marketplace created a challenge for me, but first I need to understand such circuits.

This is how I proceeded; which might differ to your approach.

376: **WHAT ARE PHOTOCELLS AND PHOTORESISTORS?**

Optoelectric devices can be divided into two very broad categories:

1) *They either are light sensors;*
2) *Or light generators.*

The prefix “opto-” is short for optical, so optoelectric means both light and electricity are involved.

Good, that agrees to what I stated that my trains operated on electricity.

I will begin with a little theory and a general examination of basic optoelectric devices.

In this first division, I will look at light sensor devices as they did and can in the future play a vital part in research and development which I have and intend to again to undertake if funds actually become available.

Just in case I say something odd like Optoisolators I will tell you now that these sensors incorporate both a light generator and a light sensor in a single package.

This section of document covers light sensors:

1) *Photocells*
2) *Photoresistors.*

Such devices are commonly said to be photosensitive.

The prefix ‘photo’ means light, so this term just says that these devices are sensitive to light.

In some texts, photoresistors are sometimes called photocells, to my mind that can create confusion.

Therefore in this document, the term photocell is always used to mean a photovoltaic cell.

377: **PHOTOSENSITIVITY IN SEMICONDUCTORS**

Both photocells and photoresistors are two terminal semiconductor devices

Almost all semiconductor materials are photosensitive to some degree.

395.
If a semiconductor is exposed to light, the intensity of the light affects how much current flows through the semiconductor.

For most applications, this photosensitivity would be highly undesirable because lighting is usually an uncontrolled variable, at least as far as most electronic equipment is concerned.

To protect against unwanted photosensitive reaction, transistors and integrated circuits are generally enclosed in light tight metal or black plastic housing.

Therefore, when using these components, we can totally ignore the photosensitivity of the semiconductor material making up the active portion of the devices.

However, in some special application of Searl International Space Research Consortium, we can make good use of the natural photosensitive property of semiconductors.

This is where optoelectric sensors come in.

**THE PHOTOELECTRIC EFFECT:**

All optoelectric sensors utilise the photoelectric effect, which is really just another name for the photosensitivity of the semiconductor material (Silicon Si 14).

When the material is exposed to light, it emits electrons.

Actually, all substances exhibit the photoelectric effect to some degree, but for most materials, the number of emitted electrons is negligible.

For all practical purposes, a photoelectric material is one that emits significant number of electrons when it is exposed to a light source.

There are several variations on the basic photoelectric effect.

Different photosensitive materials are best suited for applications within one of these variants.

The basic photoelectric effect, in which a current is emitted in response to light, can also be called photoemission.

Alkali metals such as cesium Cs 55, sodium Na 11, and potassium K 19 are good examples of photoemissive materials.

Photovoltaic cells utilise a related phenomenon known as the photovoltaic effect.

The name is pretty suggestive, don’t you think?

When a photovoltaic material is exposed to light, it generates a voltage.

Most photovoltaic cells are made of selenium Se 34 or silicon Si 14.

A similar effect is photoconductivity.

A photoconductive material decreases its resistance as the light intensity increases.
Cadmium sulphide is a popular material for making photoconductivity devices.

I shall discuss photoconductivity more thoroughly when I get to the section on photoresistors.

379: **PHOTOVOLTAIC CELLS:**

One common type of simple optoelectric sensor is the photovoltaic cell, or photocell.

The Searl Effect Generation indirectly functions in a similar manner, when a changing magnetic field falls on a solid which makes contact with another solid will generates a voltage across two dissimilar materials create a difference in potential between the two materials.

This device is also widely known as a solar battery, especially when multiple units are used together.

To be precise, a battery is made up of multiple cells.

A common D or AA battery isn’t really a battery at all, but just a cell.

Some sources call photovoltaic cells self-generating photocells.

The schematic symbol for photovoltaic cell is shown in Figure 16.1 above.

**NOTE:**

That this symbol is very similar to the one used to indicate ordinary dry cells – or batteries.

This similarity implies that photocells are used for the same sort of functions.

A photocell behaves in a circuit as a D.C. voltage source.

A photocell is basically just an optically exposed pn junction.

Usually silicon Si 14 is used in the manufacture of this type of device.

To my understanding that silicon Si 14 is commonly used out of all the photosensitive materials because it gives a relatively higher output voltage for a given level of illumination.

Clearly, for me to design a perfect flying space vehicle I need to know much and besides that to bloody well understand it; to know is not enough to win that perfect project.
A photovoltaic cell is virtually identical in construction to a standard diode.

The major difference is that in an ordinary diode the pn junction is shielded, while in the photocell the junction is intentionally exposed to external light sources.

My understanding is that to maximise the photoelectric effect, the pn junction in a photocell is usually spread out into a relatively large, thin plate.

This provides the maximum possible contact area, or amount of exposure.

When this silicon Si 14 surface is shielded from light, no current will flow through the cell.

However, when it is exposed to a bright light, a small voltage is generated as a result of the photoelectric effect.

If a photovoltaic cell is hooked up to a load and exposed to light, as illustrated in Figure 16.2, a current will flow through the photocell and the load circuit.

The amount of current that will flow depends on the intensity of the light striking the surface of the photocell.

Therefore, the brighter the light is, the higher the amount of current the photocell can supply to the load.

The photocell’s output voltage, on the other hand, is relatively independent of the light intensity.

The voltage provided by most commercially available photovoltaic cells is in the area of one-half volt.

Higher voltages can be obtained by connecting multiple photocells in series to create a true battery, as shown in Figure 16.3.

Just remind you that if you are telling people that you have design or built a space ship to go to Mars in half the time at half the cost that NASA can do – remember there is some one who is working on such ideas of a suitable vehicle for a commercial business in space and Mars is one of its targets and he knows what it takes to create such a craft – so he will know if what you are saying is simply crap or not.

Just an insert, to let you know what you are reading is about everything you need to know that must be considered in such a design for a spacecraft.
If the load circuit you want to power from photocells requires a higher current than a single cell can provide, you can add multiple photocells to form a parallel battery Figure 16.4

Whether the photocells are connected in series or in parallel, the combination can be called a solar battery.

This name is generally used even when artificial lighting is used to activate the photocells.

There is one more important factor that must be kept in mind.

The more cells there are in a solar battery, the larger the total surface must be, and the harder it will be to arrange the cells so that they will be illuminated more or less evenly.

This suggests that generally solar batteries are best suited for fairly low power circuits.

High power photocells have been developed to use solar power as an alternate source of energy.

These cells work in a manner similar to the much smaller cells employed in electronics.
Specialised materials such as copper oxides are used in these large scale photocells.

To achieve the necessary power levels, the exposed surface area must be much larger per cell.

Again, the power output of the solar battery is limited by the space available to mount additional photocells efficiently.

This is why solar power has not proven to be very practical for industrial applications, and is not likely to become our primary power source until some major technical breakthrough are made.

In most applications, a photocell is used as if it was an ordinary battery or dry cell.

In all cases you should remember that photovoltaic cells, like any DC voltage source have a definite polarity.

That is, one lead is always positive, and the other is always negative.

These two leads should never be reversed.

The rest of this document will not be completed on this page unfortunate; you shall have to wait for the next set of pages to complete this document.

**PHOTORESISTORS:**

Most substances are photoconductive, at least to some extent.

Again, in most materials the effect is negligible, but certain semiconductors are more responsive than others.

When a photoconductive substance is illuminated, the charge carrier mobility is affected.

Usually the charge carrier mobility increases with increase light levels.

The result is that current can flow more easily when a voltage is applied across the photoconductive device.

In other words, the resistance decreases.

Photoconductive semiconductors include silicon Si 14, Germanium Ge 32, and the sulfides of certain elements.

Cadmium sulfide and cadmium selenide are the most commonly used substances for photoconductive applications today.

A photoresistor is a photoconductive component.

The conductivity of the semiconductor material – usually cadmium sulphide, varies with the intensity of the light striking it.

Before I run into a bit of formula I think I should start that on the next page to be.

I trust that these 50 pages will prove interesting to you as to what I had to know for this work.