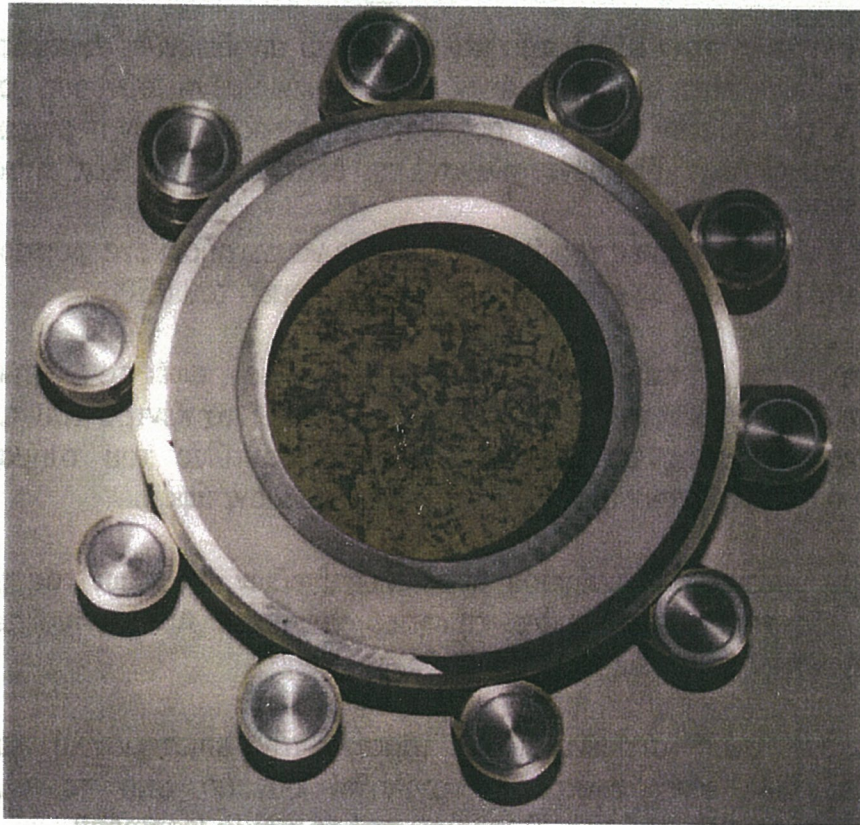


# THE LAW OF THE SQUARES

By Prof. John Roy Robert Searl  
**BOOK 11C.**



**DIRECT INTERNATIONAL SCIENCE  
CONSORTIUM INC.**

**TOMORROW'S TRANSPORT  
AND  
ENERGY SYSTEMS**

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## LONDON REPORT

Στο σεμινάριο που πραγματοποιήθηκε στο πανεπιστήμιο του Middlesex (Αγγλία) στις 6 Μαρτίου 1996, ο καθηγητής R. R. Searl αποκάλυψε για πρώτη φορά το μυστικό της Τεχνολογίας Searl, κάτι που γνωρίζει εδώ και πενήντα χρόνια.

Σ' αυτή την περίπτωση, ο Searl προτίμησε να προσεγγίσει το κοινό σε αυστηρά επιστημονικό επίπεδο. Χρησιμοποίησε κοινά και εύκολα διαθέσιμα όργανα μέτρησης, όπως τον παλμογράφο, για να πιστοποιήσει την ανακάλυψη του.

Η φωτεινή ένδειξη στην οθόνη του παλμογράφου αποδεικνύει συμπερασματικά πως πραγματοποιείται φόρτιση όταν μια συγκεκριμένη σύνθεση στοιχείων συμπιέζεται και μορφοποιείται με προκαθορισμένο τρόπο. Στην περίπτωση αυτή ένα φορτίο τριών βολτ κάθε πέντε χιλιοστά του δευτερολέπτου, κατ' επανάληψη.

Ένας από τους συνεργάτες του Searl κατάφερε να μετρήσει ένα φορτίο δώδεκα με δεκαπέντε βολτ κατ' επανάληψη, στο δικό του τομέα του SEG.

Ξεκινάει με ένα τμήμα που ανταποκρίνεται στις προδιαγραφές του. Στη συνέχεια με έναν καθετήρα (probe) του παλμογράφου αγγίζει το κέντρο του τμήματος, ενώ άλλος καθετήρας αγγίζει τον εξωτερικό δακτύλιο του τμήματος. Το αποτέλεσμα φαίνεται σαν αιχμή στην οθόνη του παλμογράφου.

Το κύκλωμα μετακινείται διαμέσου των πολυεπίπεδων στοιχείων του τμήματος (segment). Το τμήμα παρουσιάζει αρνητικό δυναμικό. Αυτό σημαίνει πως η απελευθέρωση ηλεκτρονίων είναι απόδειξη φόρτισης.

Το φαινόμενο αυτό αναμένεται να ταραξεί την επιστημονική κοινότητα. Αποδεικνύει πως είναι εφικτό να αντληθεί δύναμη από το υλικό του περιβάλλοντος χώρου, από τον χώρο γύρω από το τμήμα (segment).

Το τμήμα θα συνεχίσει να πάλλεται, χρησιμοποιώντας αποκλειστικά τα στοιχεία. Δεν υπάρχει φωτοηλεκτρική επίδραση. Δεν είναι ηλιακή κυψελίδα. Δεν είναι συμβατικός πυκνωτής. Δεν εμπεριέχει ενέργεια.

Όμως εκλύεται ενέργεια, σταθερή και διαρκής ενέργεια δηλαδή, από το υλικό του περιβάλλοντος χώρου. Στην πραγματικότητα η ενέργεια βρίσκεται παντού, ολόγυρα μας. Υπάρχει στο υλικό του περιβάλλοντος χώρου. Το τμήμα (segment) εκπέμπει ροή ηλεκτρονίων, αξιοποιώντας το δυναμικό του υλικού του περιβάλλοντος χώρου. Αυτό σημαίνει πως στον εσωτερικό πυρήνα του τμήματος υπάρχει πηγή ηλεκτρονίων που μεταδίδει μια συνεχή απελευθέρωση τους στην περιφέρεια του τμήματος. Αυτή η μέθοδος μας επιτρέπει να έχουμε άμεση πρόσβαση στην ενέργεια που μας περιβάλλει, να αξιοποιήσουμε την απεριόριστη ενέργεια του σύμπαντος.

**THE LAW OF THE SQUARES**  
**By Prof. John R. R. Searl**

**BOOK 11C.**

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**Prof. John Roy Robert Searl.**

## BACKING FRONT COVER IN GREEK

BRAD'S LOCKERMAN'S LONDON REPORT

## BOOK 11C

## INDEPENDENT REPORT

BRAD'S LOCKERMAN'S LONDON REPORT IN ENGLISH

## THOSE WHO PROF. JOHN ROY ROBERT SEARL HAVE MET

Photo of a group who had dinner with me in Australia

## D.I.S.C. INC.

Company infor

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A

## BOOKS / MAGAZINES LISTING ME

B

Raum &amp; Zeit

Das Neue Zeitalter

Magazine 2000

Nexus

Extraordinary Tesla Society

Amateur Astronomy &amp; Earth sciences

Other Books

## BOOKS THAT QUOTE MY WORK

C

Photo Steve Walker with Prof. J.R.R.Searl

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D.I.S.C. INC. Magnetiser in Germany

## THE LAW OF THE SQUARES

2

Photo Stockholm at Christmas time

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Workout for square 4 level 1,213

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## D.I.S.C. GERMANY REPORT PHOTOS 1997

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Photo Germany magnetiser used to magnetise SEG components

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Photo top. SEG Plate with 10 Roller sets

Photo bottom SEG plate showing one Roller set

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Photo top. SEG Plate with 2 Roller sets

Photo bottom. SEG Plate with 3 Roller sets



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I, Prof. John Roy Robert Searl, hereby release this book to the general public at large, upon this day Wednesday 7th, of January 1998, by the authority of my hand, confirming that its contents are my views, opinions and knowledge, unless otherwise stated, are precise in their statements, should at any time research proves that we can change any of these conditions, either to improve their results, or to reduce the cost to manufacture them, in such an event those changes will be stated in the next released book that becomes available.



Prof. John Roy Robert Searl. President. Consultant Engineer  
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## DATE

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27.07.1967	NEWBURY WEEKLY NEWS	
13.03.1968	DAILY MIRROR	
04.07.1969	HANTS & BERKS. GAZETTE JOHN HOCKNELL PHOTOGRAPHER & PHIL SANDERS REPORTER. SHOW 3 VIEWS OF THE CRAFT	
28.11.1971	SUNDAY MIRROR DERBYSHIRE DISTRICT WRITE UP ON ME WITH A PICTURE OF ME & SUE JUSTICE AND MODEL DISC	
19.05.1973	PARADE MAGAZINE	
28.05.1977	8 O'CLOCK LONDON TO AKLD IN 30 MINUTES! PHOTO DEMO 1	BOOK 10C PAGE 185
28.05.1977	8 O'CLOCK NIGHTMARES! PHOTO OF ME.	BOOK 10C. PAGE 185
03.07.1997	SUNDAY NEWS N.Z.	BOOK 11A. PAGE 28
25.01.1978	CHRISTCHURCH STAR	BOOK 11A.PAGE 136
25.04.1978	DAILY EXPRESS	
29.04.1978	NZ HERALD LONG ARTICLE + PHOTO ME /ATHOL PARK	BOOK 11. PAGE 92
04.05.1981	SUN ARTICLE FREDDIE LAKER STATEMENTS ON ME	
22.10.1994	INTERVIEW BY SYLVIA BODNAR EDITOR AT MY LECTURE IN AMSTERDAM. HOLLAND. WILL SEND ME COPY AFTER BROADCAST. SHE WAS AT MY LECTURE AT GLASTONBURY AUG. 5TH. BUT I HAD TOO MANY PEOPLE AROUND ME SO SHE NEVER BOTHERED ME.	
29.05.1995	KRO - ARARAT RADIO STATION. POSTBUS 23000. 1202 EA HILVERSUM. NETHERLANDS TRANSMITTED DURING EVENING MY CANNED INTERVIEW DONE ON OCT. 22 1994 IN AMSTERDAM. INTERVIEWER WAS SYLVIA BODNAR EDITOR. FAX : 00-31-35-249-058. STATED THEY HAD A GOOD RESPONSE FROM IT. THE BIGGEST PUBLISHING HOUSE IN AMSTERDAM SAID THEY WERE INTERESTED TO WRITE A BOOK ON ME. SO TO DATE, NO CONTACT HAS BEEN MADE.	
09.07.1995	THE CHRONICLE REPORTER CAROLINE INTERVIEWED ME 13 KINGSFORD SMITH DRIVE, TOOWOOMBA. AUSTRALIA.	
19.07.1995	THE CHRONICLE OF TOOWOOMBA, QUEENSLAND, AUSTRALIA, ARTICLE APPEARED PAGE 11. INTERVIEW DONE ON THE 09.07.1995 BY CAROLINE HAMILTON.	
26.07.1995	INTERVIEW AT PERTH JUST BEFORE LEAVING FOR HOME.	
07.08.1995	ARTICLE OUT GOOD	
17.01.1996	REC.: VIDEO DONE BY THEM IN MAY 1994 AT SOUTH HILTON DENVER FREE ENERGY CONFERENCE WHICH WAS SHOWN ON SOUTHERN OREGON PUBLIC TELEVISION AND LOCAL ACCESS CABLE SYSTEM AND IN OTHER PLACES AROUND THE COUNTRY	
02.11.1995	HENDON TIMES WRITE UP FULL PAGE MARK LESLIE REPORTER PAGE 15	
04.05.1996	LECTURED AT ISLINGTON BUSINESS CENTRE AT THE QUEST IN ASSOCIATION WITH AMATEUR ASTRONOMY & EARTH SCIENCES MAGAZINE. SOMETHING TO DO WITH G. SCOTT PROMISED ME COPY OF VIDEO	
13.05.1996	ADVERT CONFERENCES & EXHIBITIONS MY LECTURE 1.6.96 PAGE 13 FINANCIAL TIMES MONDAY	
04.02.1997	REC.: UFO REALITY ISSUE 6 FEB/MARCH 97, CARRIES GEORGE WINGFIELD INTERVIEW BY JON KING	£2.50
03.04.1997	ARTICLE WAS DEFAMATION OF CHARACTER.. READ FILED DETAILS	
23.07.1997	UFO REALITY ISSUE 7 CARRIED AN APOLOGY TO ME	
	GERMAN TV PRO 7 CANNED INTERVIEW HERE & AT HENDON RAF WAR MUSEUM	

No doubt we shall uncover more reports in the months ahead.

## DATE

## MAGAZINE

## RAUM &amp; ZEIT

=====

DECEMBER	1984	PAGE 80 / 81
APRIL / MAY	1989	PAGE 75 - 84
JUNE / JULY	1989	PAGE 57 - 58 & PAGE 67 - 75
AUGUST / SEPTEMBER	1989	PAGE 71 - 76
OCTOBER / NOVEMBER	1989	PAGE 75 - 85
JANUARY / FEBRUARY	1990	PAGE 60 - 61 & 73 - 77 & 92

## DAS NEUE ZEITALTER

=====

02.08.1989	PAGE 40 - 44
18.10.1989	PAGE 27 - 30

## MAGAZINE 2000

=====

IT WAS NO 4 ISSUE OF THIS MAGAZINE DATE UNKNOWN THERE WERE 6 PAGES INVOLVED

FEBRUARY / MARCH	1995	NO. 103 PAGE 25 - 29
AUGUST / SEPTEMBER	1996	NO 112 PAGE 25 - 26

## NEXUS

=====

FEBRUARY / MARCH	1993	VOL.2. NO.12 PAGE 50
JUNE / JULY	1993	VOL.2. NO.14 PAGE 48 - 49
DECEMBER / JANUARY	1993 / 4	VOL.2. NO.17 PAGE 41 - 47
JUNE / JULY	1994	VOL.2. NO.20 PAGE 52

## EXTRAORDINARY

## TESLA SOCIETY

=====

JANUARY / FEBRUARY / MARCH	1994	ISSUE 1. PAGE 26
APRIL / MAY / JUNE	1994	ISSUE 2. PAGE 17 - 24
INTERNATIONAL TESLA SYMPOSIUM	1994	

SATURDAY JULY 23

TESLA MAN OF MYSTERY BY MICHAEL ST. BARTER PAGE 57 - 63

## AMATEUR ASTRONOMY &amp; EARTH SCIENCES

=====

DECEMBER 1996	VOLUME 1. ISSUE 12. PAGE 58 - 59
NOVEMBER / DECEMBER 1994	ATLANTIS RISING NO:1. PAGE 14 - 15 & 52 - 53

## OTHER BOOKS

=====

1990	THE PRINCIPLES OF ULTRA RELATIVITY 10TH EDITION BY SHINICHI SEIKE
1993	THE MANUAL OF FREE ENERGY DEVICES AND SYSTEMS VOL. 11 BY D. A. KELLY
1994	INTERNATIONAL SYMPOSIUM ON NEW ENERGY MAY 12 - 15 1994 PAGE 421 - 433
1995	THE ULTIMATE ANSWERS BY JOHN WEST
1995	VIMANA AIRCRAFT OF ANCIENT INDIA AND ATLANTIS BY DAVID HATCHER CHILDRESS



## DATE

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24.07.1997	NEWBURY WEEKLY NEWS, PAGE 8 LOCAL CHIT CHAT.	BK 11B.P9
28.07.1997	UFO REALITY ISSUE 9 AUG / SEPT 97 2 PAGES CONTAINS 5 PICTURES	BK 11B.P2
31.07.1997	NEWBURY WEEKLY NEWS, UPDATE FROM PETER SEARL	BK.11B.P83
OCT. 1996	ALIEN ENCOUNTERS ISSUE 4	
OCTOBER	1990 DIFØT NYT NO.21	PAGE 10 - 20
NOVEMBER	1990 DIFØT NYT NO. 22	PAGE 3 - 30
OCT / NOV / DEZ	1989 SAFE NEWS	PAGE 13 - 14
3/4 1990	SAFE NEWS	PAGE 74
JANUARY 1991	UFO NORGE	PAGE 28 - 33
SEPTEMBER 1990	NYT ASPEKT	PAGE 6 - 7
WINTER 1994 / 1995	ELECTRIFYING TIMES VOL. 2. NO.3	PAGE 6 & 13
18.09.1997	READING EVENING POST	PAGE 10

There are quite a number of books and magazines which include my work, unfortunate the 2 floppy's which contains those details failed to load, thus I have lost that list which took so long to re-cover

You will notice that some of these press articles have already been released within these books. Future books will also contain other articles as we re-cover them - so you, who are idiots, informing others that John Searl never had any press articles, better wash your mouth piece, as it is covered in shit



**Steve Walker with Prof. John Roy Robert Searl during his lecture tour of Australia. The back cover picture has been taken from this shot.**



A MESSAGE FROM THE PRESIDENT

- 1 1997 should have been a great year for D.I.S.C. INC., unfortunate it failed badly where it should have won
- 2 As usual, the members shot off on their own to spend the hard earned funds without me
- 3 I hope that they have learnt their lesson now, so if funds again become available, the work will be done on a scientific basis  
  
Because if they don't - the S.E.G. will never get done, because the type of funding needed will never be obtained from the big boys, until we do that scientific report
- 4 I have now waited over 40 years for that report - and still I do not process it - the question now is - will I live long enough to see that report done
- 5 I can send out massive cost of what I have done as PR material but unless that hits some investor who gets excited about it no one will do anything
- 6 The question is will that scientific report be done during 1998 - or will 1998 prove to be just another wasted year ?
- 7 With everybody wanting to make the S.E.G. yet lack the capabilities require to do so, at a level by which funds will be able to be generated, will prove as always, just a waste of both time and money
- 8 Anyone trying to make the S.E.G. who cannot write a daily report on precisely what they are doing, times, cost, names involved. Are an absolute waste of time to D.I.S.C INC. aims. Because they are just wasting vital money and time, getting nowhere  
  
And if by sheer stroke of luck, they succeed to get a roller running around a ring - what are they going to do with it - because it's just a novelty - because there is no scientific report upon its development that would get big boys backing
- 9 Little boys can only pay for one of at a time - that is useless - millions have to be made at a time - if we are to expand as an energy and transport company
- 10 Another point I wish to make, is that 1997 still saw a number of idiots knocking my name as never had nothing and still got nothing.
- 11 One of those idiots that was brought to my attention can be witnessed in the photo on the next page.
- 12 This book again extends my knowledge and progress on problems relating to this technology, directly or indirectly.



BOOK 11C.

## INDEPENDENT REPORT

6-10-1996 11:51 AM FROM : MARILYN LEWIS ENTERTAINMENT ENTERPRISES

TEL : 00-1-310-473-5673

FAX : 00-1-310-475-4109

FILM PRODUCER : BRADLY LOCKERMAN.

### LONDON REPORT

At the seminar, Middlesex University, London, England, on March 10, 1996, Prof. R. R. Searl revealed for the very first time the secret of Searl Technology. Something he has known for fifty years.

On this occasion Searl chose to approach his audience strictly on a scientific level. He used readily available common measuring instruments such as the oscilloscope to prove his discovery.

The spike shown on the oscilloscope screen proves conclusively that a charge does exist when a specific combination of elements are pressed and formed in a pre-designated fashion. In this case, a charge of three volts every five milliseconds, repeatable. One of Searl's associates was able to measure a charge of twelve to fifteen volts repeatable, from his section of the SEG.

He starts with one segment built to his specifications. He then touches one probe from the oscilloscope to the center of the segment, the other probe is touched to the outer ring of that segment. The result is shown as a spike or peak on the oscilloscope screen.

The circuit is moving through the layered elements in the segment. The segment shows a negative potential. That is, a release of electrons is evidence of charge.

This phenomenon will set the scientific world on its ear. It shows that you can draw power from the surrounding space fabric, the area around the segment. It will continue to pulse just by using the elements. There is no photoelectric effect. It is not a solar cell. It is not a conventional capacitor. There is no energy input into it. Yet it is giving out energy, consistent and repeatable, that is, energy from the surrounding space fabric.

In fact, the energy is all around us. It exists in the surrounding space fabric. The segment emits an electron flow by tapping the potential of this surrounding space fabric. This means that there is a source of electrons that is being transmitted from the inner core of the segment to the perimeter of that segment in a continual release. The conclusively demonstrating how to access the energy all around us, the unlimited energy of the universe.





Dr. Harold Aspden delighted to shake hands with Prof. Searl, who he has been knocking down as having nothing and, Dr. Don Kelly enjoying this event of an impossible act becoming possible



BOOK 11C. THOSE WHO PROF. JOHN ROY ROBERT SEARL HAVE MET.



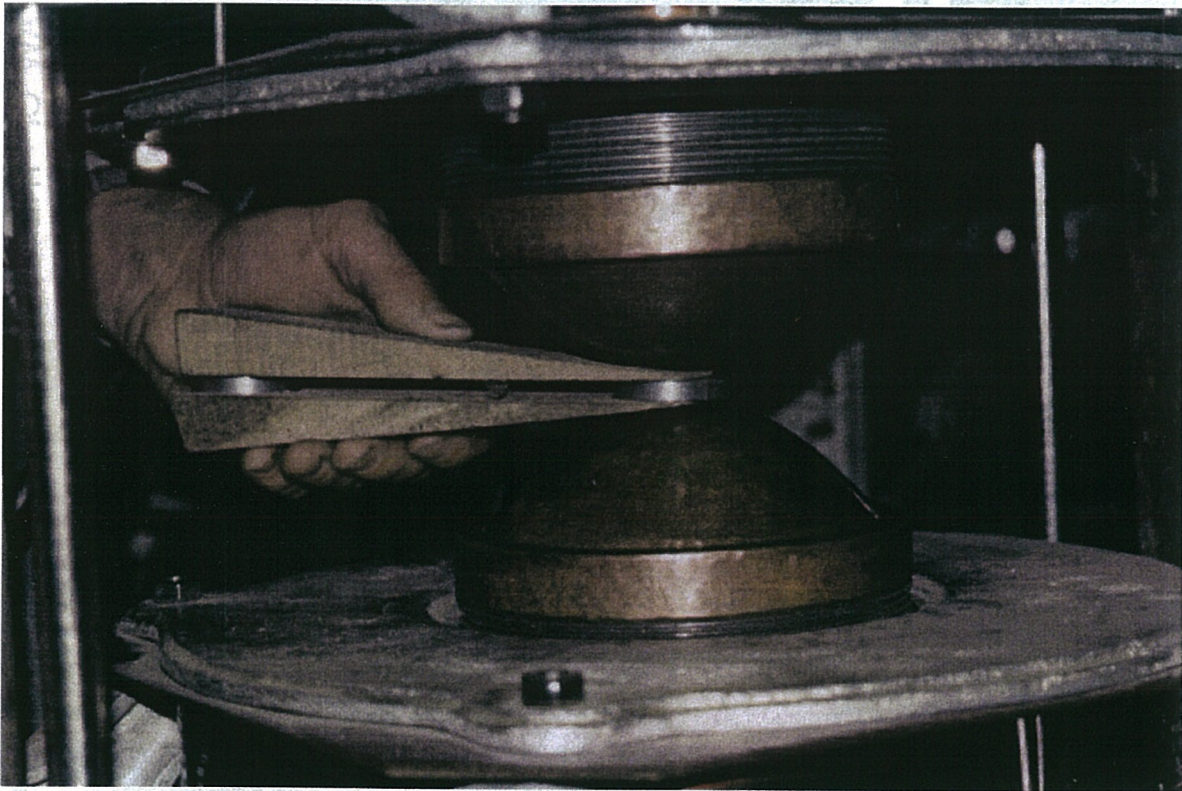
ALL OF WHOM PROMISED TO HELP ME - UNFORTUNATE IN REALITY, ONLY ONE OF THEM IS HELPING ME



# THE LAW OF THE SQUARES

## BOOK 11C.

By Prof. John Roy Robert Searl



This is Germany calling to confirm that this is de magnetiser which in September 1996 did in fact tried to magnetise one segment of de Searl Effect Generator.

The good news is that I am please to report that this magnetiser built to the Law of de Squares worked perfect

The bad news is that the material used for the magnetic layer had been badly cast in Stockholm, Sweden.

There were holes too large where the magnetic field should had been - thus failed this attempt.







- 1 Stockholm, so Martin Colborne informs me by telephone  
has the only company, who are prepared to try and cast the magnetic layer of the plate
- 2 Germany, as I know personally  
has the only magnetiser which we can use at this time, to magnetise these parts
- 3 In the first attempt by Stockholm to cast the plate magnetic layer ended with 3 rather large holes, where the material was poured in
- 4 These faults created effects, which was not in the best interest of the Searl Effect Technology
- 5 Nevertheless, this company in Stockholm, agreed to make a further attempt to cast that ring
- 6 At this moment in time, I cannot report what is going on, even though Martin and our Stockholm operator were told by me, that all future work must be done step by step through me
- 7 Martin Has recently inform me by telephone, that he has got 4 plates made  
these have been made without any approval from me, and I was completely shocked that, he and our operator in Sweden had completely ignored my request
- 8 Therefore, I cannot take any responsible at all, for the outcome of this massive lost, which no doubt it will be, based upon the evidence of that other plate
- 9 What makes a person so insane, as to waste so much money and time  
as nothing is gained except the massive loss of time and money which is so damned hard to come by
- 10 Anyone with management skills, would not have committed such lunatic actions
- 11 Everyone appears to be doing the same actions - they appear to be under some lunatic concept that, by doing everything through me will take far too long to make that plate or segment  
there are so blind, that they cannot see, that they are taking years instead of months, and still got nothing to show - not even a report on what they have done - it is hard for anyone to believe that this is possible - but it is - I have them to prove it



**DIRECT INTERNATIONAL SCIENCE CONSORTIUM**

**DIVISION : GERMANY**

**REPORT : UPDATE**

**DATE : 19 DECEMBER 1997**

**TO : PROF. JOHN R. R. SEARL**

**FROM : GERON LÖBBE**

- 1 Martin Colborne and Ken Gibbs visited us from 14th to 16th,  
December  
  
Sorry that you could not join us to see the procedure yourself
- 2 They brought along 2 rings and 92 segments
- 3 The rings were about 2 mm too high  
  
according to their calculation  
  
*not fitting to the squares*
- 4 24 segments were nearly without failure  
  
only little crumbling splits on the edges of the magnetic layer
- 5 About half of them had a crack through the magnetic layer  
  
too fast and careless machined
- 6 And the rest of them had medium split - off's at the edges
- 7 The ring showed a frequency resonance band  
  
19,000 - 20,000 Hz
- 8 In the calculated area about 19,500 Hz
- 9 First we tried magnetisation with low AC power  
  
and then with high AC power
- 10 The magnetic pattern seemed to be similar  
  
no difference could be seen with iron filings
- 11 Only magnetic force was little higher with high AC power
- 12 DC power stayed the same

- 13 It was difficult to see resonant effects on the segments according to the relative low frequency  
136 Hz
- 14 In difference to normal magnetic field the rollers tended to cling not quite vertical on the ring
- 15 The item was only running on Martin Colborne's force pushing by his hands  
even with full set of rollers
- 16 This experiment demonstrated  
the shape has to be calculated more exactly to the squares
- 17 More geometric in proportion and the material of some of the components seem not to be ideal
- 18 I think, Martin is going to visit you soon and you can see the pieces and their behaviour yourself
- 19 Still, no reason to give up....!
- 20 The few photos we took will reach you later
- 21 End of report
- =====

## Note

statement 13

tells me that this segment should had been constructed from level 2. and should had weighed 34 grams

As I was not involved with its design or construction, I cannot at this time confirm that Martin had got his sums right, with the finished product

I only had his word before he left for Germany that everything was perfect

I feel that Geron's report here suggest that things were not as perfect as they should had been

the final results appears to support that view

It appears that Martin calculations based on Geron's report is way out from the correct value which it should be



22 If Geron is saying that Martin said that the frequency was 19,500 Hz

That must represent the sum of the square which he used for the design and construction of that ring

23 Which means that 19,500 divided by the square = 4,875 as a line value

24 What I now need to know as Martin was not able to give me his facts to which he work too - so I have defined what he actually done

25 So will a line value of 4,875 form a Domain of 4 ?

26 Let us find out

$$4,875 - 30 = 4,845$$

$$4,845 / 4 = 1,211.25$$

From this evidence presented here, it cannot work because you cannot have a level of 1,211.25

27 So we know from that, Martin has the plate value wrong

this is based upon Geron's statement in his report

28 So what level should he had used ?

29 Level 1,212 equals a line value of 4,874 grams

which is the first level below that which Martin used

30 Or better still

the next level up of 1,213 whose line value equals 4,878 grams

31 Level 1,212 would present us with a frequency of 19,496 Hz

32 Level 1,213 would present us with a frequency of 19,512 Hz

33 From Geron's report, to me, it appears that Martin was over the limit which it should had been, which seems to be verified by the experimental results

34 I seem to have appeared to be correct in my opinion, that it would be a waste of time going with them to Germany, I guessed Martin had got his sums wrong

35 I shall now look at the two options which were available to him had he done his sums right

36 This is the way in which I would had done it if I was doing it

- 37 The two options available around the figure which Martin must had used

1216	1222	1213	1223
1225	1211	1220	1218
1219	1217	1226	1212
1214	1224	1215	1221

DOMAIN 4      LEVEL 1,212  
 GROUP 2  
 OPTIONS 10  
 SHELLS 2  
 SHELL 1 4,874  
 SHELL 2 14,622  
 LINE VALUE 4,874  
 SUM 19,496  
 CORNERS 4,874

1217	1223	1214	1224
1226	1212	1221	1219
1220	1218	1227	1213
1215	1225	1216	1222

DOMAIN 4      LEVEL 1,213  
 GROUP 2  
 OPTIONS 10  
 SHELLS 2  
 SHELL 1 4,878  
 SHELL 2 14,634  
 LINE VALUE 4,878  
 SUM 19,512  
 CORNERS 4,878

- 38 Let us examine the first level on offer, its 10 options :

(1)	1211	1216	1221	1226
(2)	1211	1217	1222	1224
(3)	1211	1218	1220	1225

That appears to meet the conditions defined in my dream one

Let us stop for a moment, and look at those 3 options on our second level on offer

(1)	1212	1217	1222	1227
(2)	1212	1218	1223	1225
(3)	1212	1219	1221	1226

That appears to meet the conditions defined in my dream one

- 39 If you study my dream one details in Book 1, I feel certain that you will agree with me upon this evidence presented here

- 40 Let me now return to examine those remaining 7 options of our first level on offer

(4)	1212	1217	1219	1226
(5)	1212	1218	1221	1223

We can witness that in the next step choice there is only 2 options



41 Then we have :

(6)	1213	1215	1220	1226
-----	------	------	------	------

(7)	1213	1216	1222	1223
-----	------	------	------	------

we can see that there are only 2 options in this band

42 Then we have :

(8)	1214	1215	1221	1224
-----	------	------	------	------

(9)	1214	1216	1219	1225
-----	------	------	------	------

(10)	1214	1217	1220	1223
------	------	------	------	------

We can see that we have 3 options available

43 These are the 10 options of level 1,212, let me now complete those 7 remaining of level 1,213

(4)	1213	1218	1220	1227
-----	------	------	------	------

(5)	1213	1219	1222	1224
-----	------	------	------	------

(6)	1214	1216	1221	1227
-----	------	------	------	------

(7)	1214	1217	1223	1224
-----	------	------	------	------

(8)	1215	1216	1222	1225
-----	------	------	------	------

(9)	1215	1217	1220	1226
-----	------	------	------	------

(10)	1215	1218	1221	1224
------	------	------	------	------

This completes the 20 options from which to make my choice guessing from Geron's report, what the value of that plate, should had been

44 I would had made my first try as follows :

NEODYMIUM Nd. 60	=	1,224 grams
NYLON 1.11	=	1,215 grams
MAGNETIC LAYER	=	1,221 grams
COPPER Cu. 29	=	1,218 grams
TOTAL WEIGHT	=	4,878 grams

45 The magnetic material choice must still be researched for the ideal one for this technology

46 What ever the material I use for the control gate layer, the weight must remain the same at all times, this applies to any other layer material being changed

**DIRECT INTERNATIONAL SCIENCE CONSORTIUM****WORLD - WIDE****UNITED KINGDOM SECTOR****DIVISION :****TRANSPORTATION****REPORT :****SEG DEMONSTRATOR****RING & ROLLER PROJECT****ON TEST PROGRAM THREE****DATE :****DECEMBER 20th, 1997****TO :****PROF. J. R. R. SEARL****FROM :****KEN GIBBS****1.1 INTRODUCTION**

1.1.1 This report summarises the third testing programme by the DWW Technical Division

for the SEG demonstration ring and roller set

1.1.2 Previous programs have concerned the development of an SEG structure which responds to the Law of The Squares

1.1.3 This has mainly involved the location of suitable suppliers equipped to produce hardware specific to the SEG

1.1.4 Fortunately the manufacturing technology involved is easily applicable to the volume production situation

1.1.5 Following several days of component machining / assembly at our sub - contractors in West Sussex

1.1.6 96 SEG roller segments

I. e., 12 roller sets

and two SEG rings were produced

1.1.7 We then travelled to the German Offices of DWW where the largest DISC magnetising workstation is located

**1.2 SEG MAGNETISATION TESTING - PROGRAM 3**

1.2.1 In Germany



the demonstration ring / roller sets were magnetised according to the Law of The Squares

1.2.2 During the process set-up

we proved that the Law of The Squares accurately predicts the various parameters of the process

1.2.3 This completely validates all that is written by Professor Searl concerning the Law of The Squares mathematical system

as relating to SEG production

1.2.4 The magnetisation process itself was unable to be performed to the exact specifications of Professor Searl

due to a lack of adequate electronic hardware

1.2.5 This resulted in randomness occurring in the magnetisation pattern and so the SEG could not function

1.2.6 This field pattern randomness factor has been verified by the construction of a prototype field capture and analysis system

since returning from Germany

### 1.3. TEST CONCLUSIONS

1.3.2 Further development of the magnetisation process is now required to enable the existing SEG components to function

1.3.3 An accurate

high - powered magnetiser must now be constructed

1.3.4 The specification of the existing DWW - UK magnetiser is suitably accurate to imprint the correct magnetic patterns onto the SEG components without the randomness factor occurring

1.3.5 However a field strength of 4 Tesla is required for the new magnetic materials used in the SEG construction

1.3.6 The existing DWW - UK magnetiser

whilst accurate enough

produces only a 1 1/2 Tesla field

### 1.4 FUTURE PROGRAM

1.4.2 Test program number four will involve the construction and development of the new high powered DWW - UK magnetising

workstation

1.4.3 The prototype SEG field capture and analysis system must also be developed to

- (1) automatically capture
- (2) store
- (3) analyse

the SEG magnetic patterns

for SEG rings and segments

1.4.4 This addition will enable the verification of the magnetic patterns against the Searl specification

thereby providing Quality Control for the SEG development process

Yours in clean energy

Ken Gibbs

#### DISC WORLD - WIDE EXECUTIVE

=====

I must admit, that at this moment in time, I have not seen this ring or rollers but I feel that I shall be seeing them, because they are banking on modifying them, in the effort to get them to run - but I feel certain they will go from worst to worst

Had Martin done precisely what I had told him to do, they would not had been in this mess today

If each of those layers are wrong - there is no way by which you can rectify them

If the Copper Cu. 29 is the only layer over sized then we could grind down the outer surface to the weight required

But I have a little feeling that both Martin and Ken have been doing quite a bit of sweating upon this matter

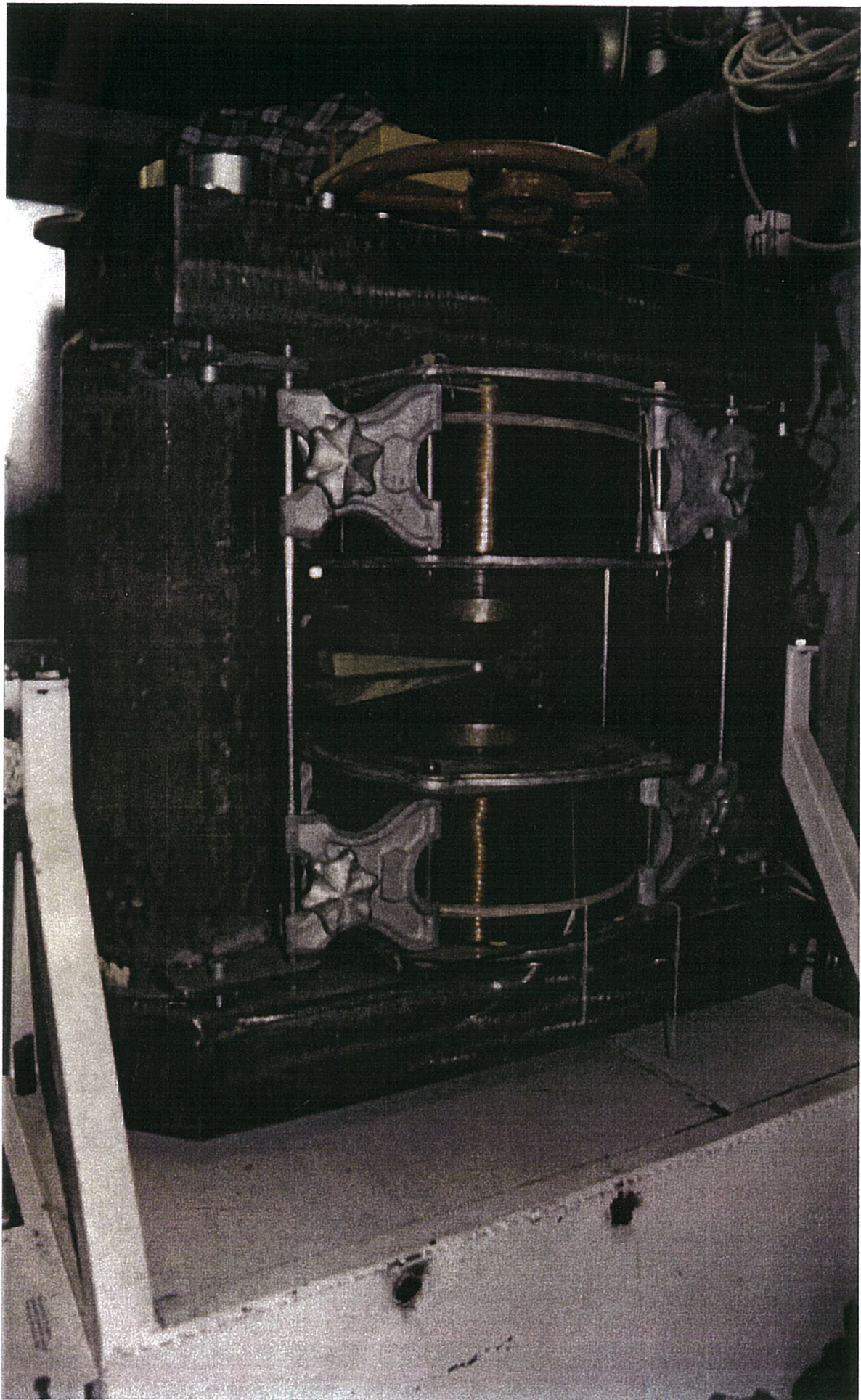
I have no idea when these members will learn that before you run, you first learn to walk, and walking does include falling, until one has mastered the balance act, which one does in the end if they proceed in the correct manner, in which I have told them so many times before

But for some reason no one wants to listen to an old fool like me - who knows absolute nothing - and then, only knows half of that

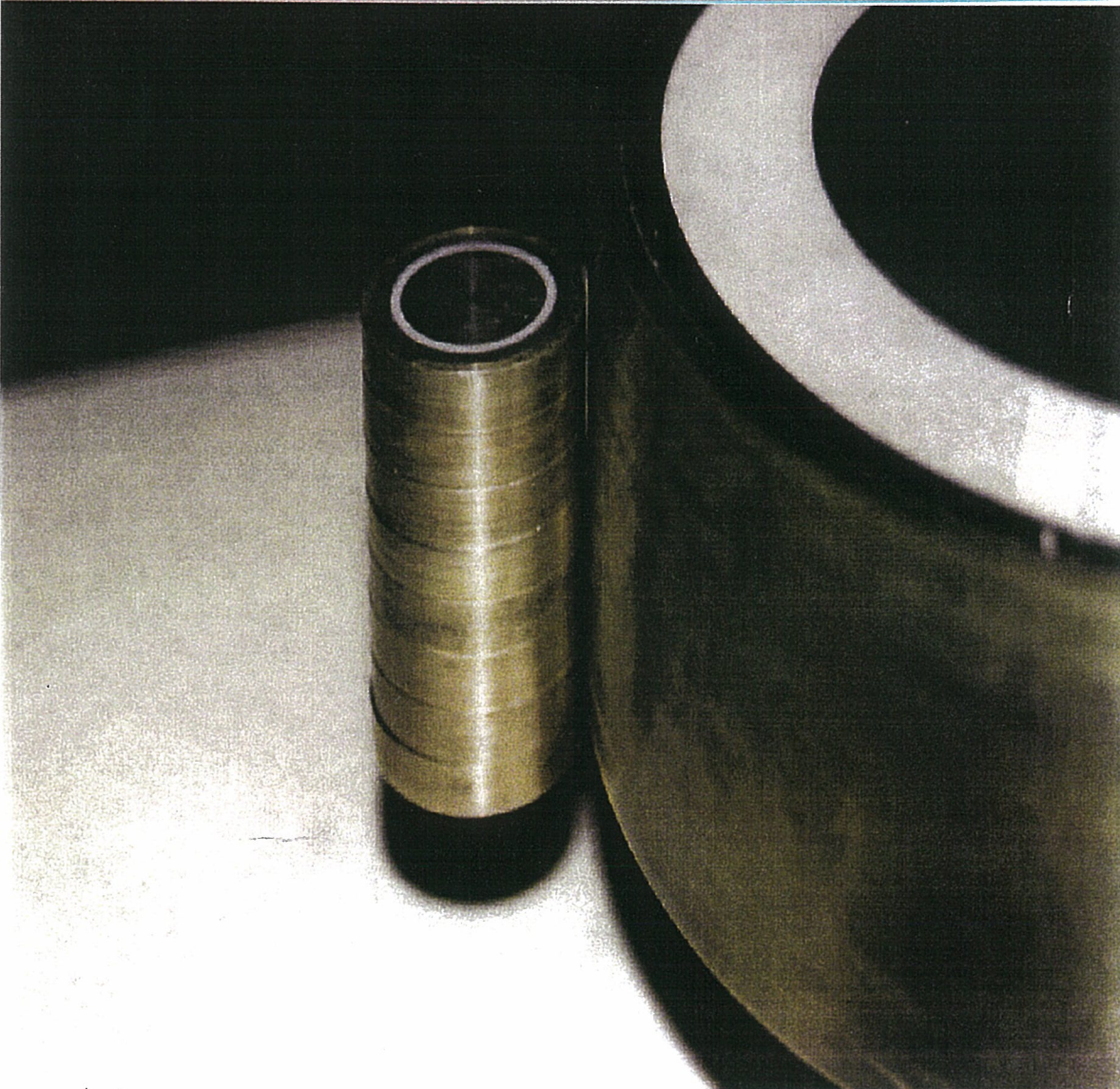
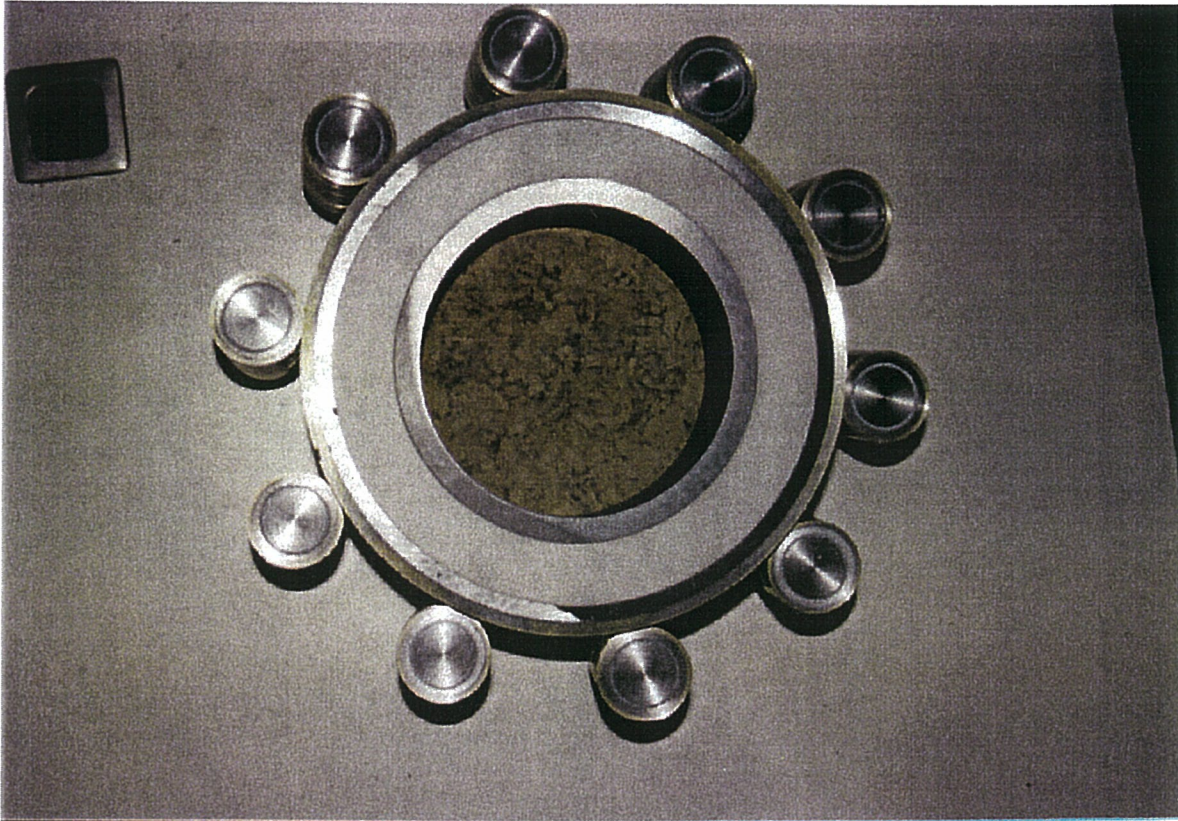




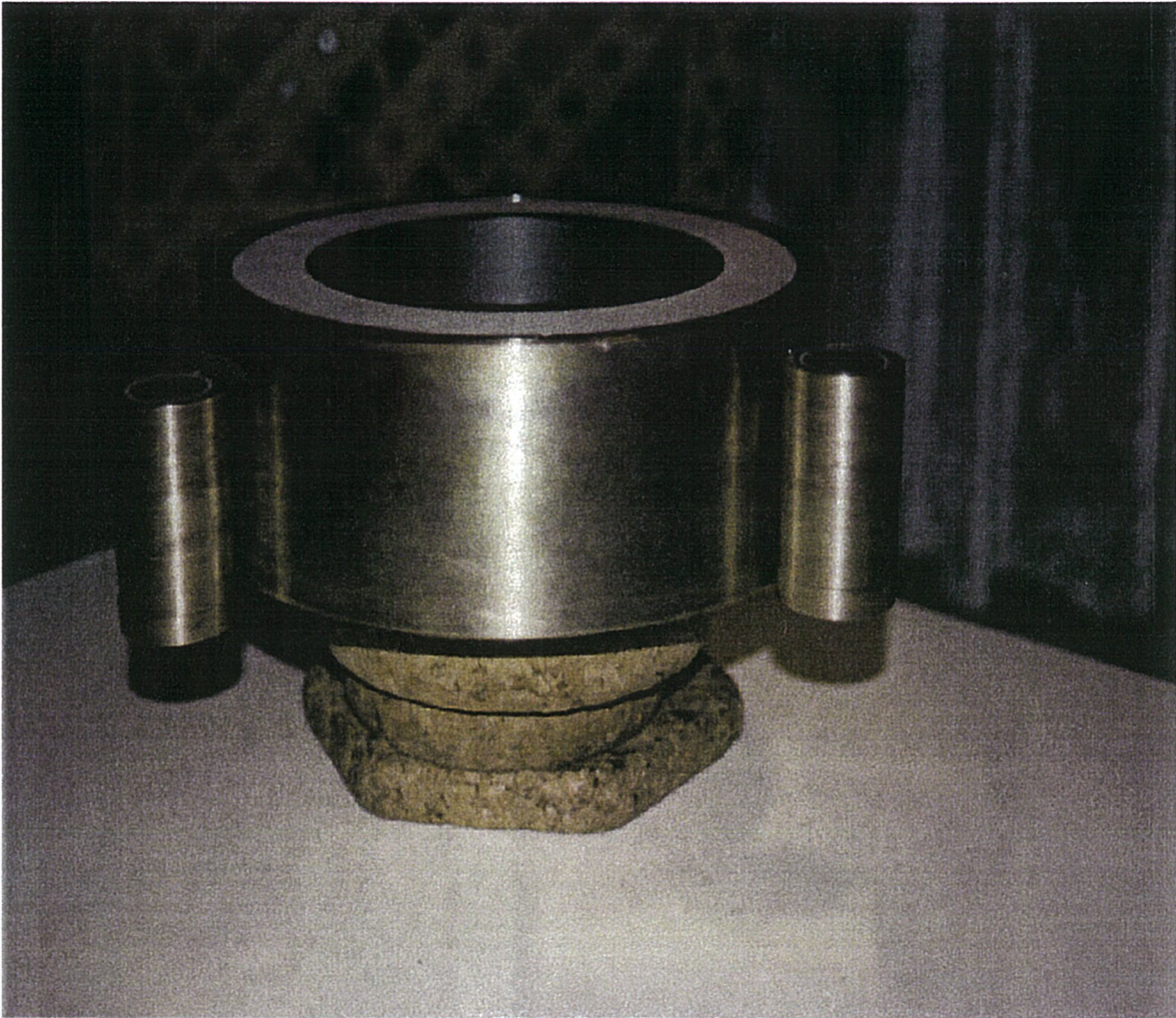




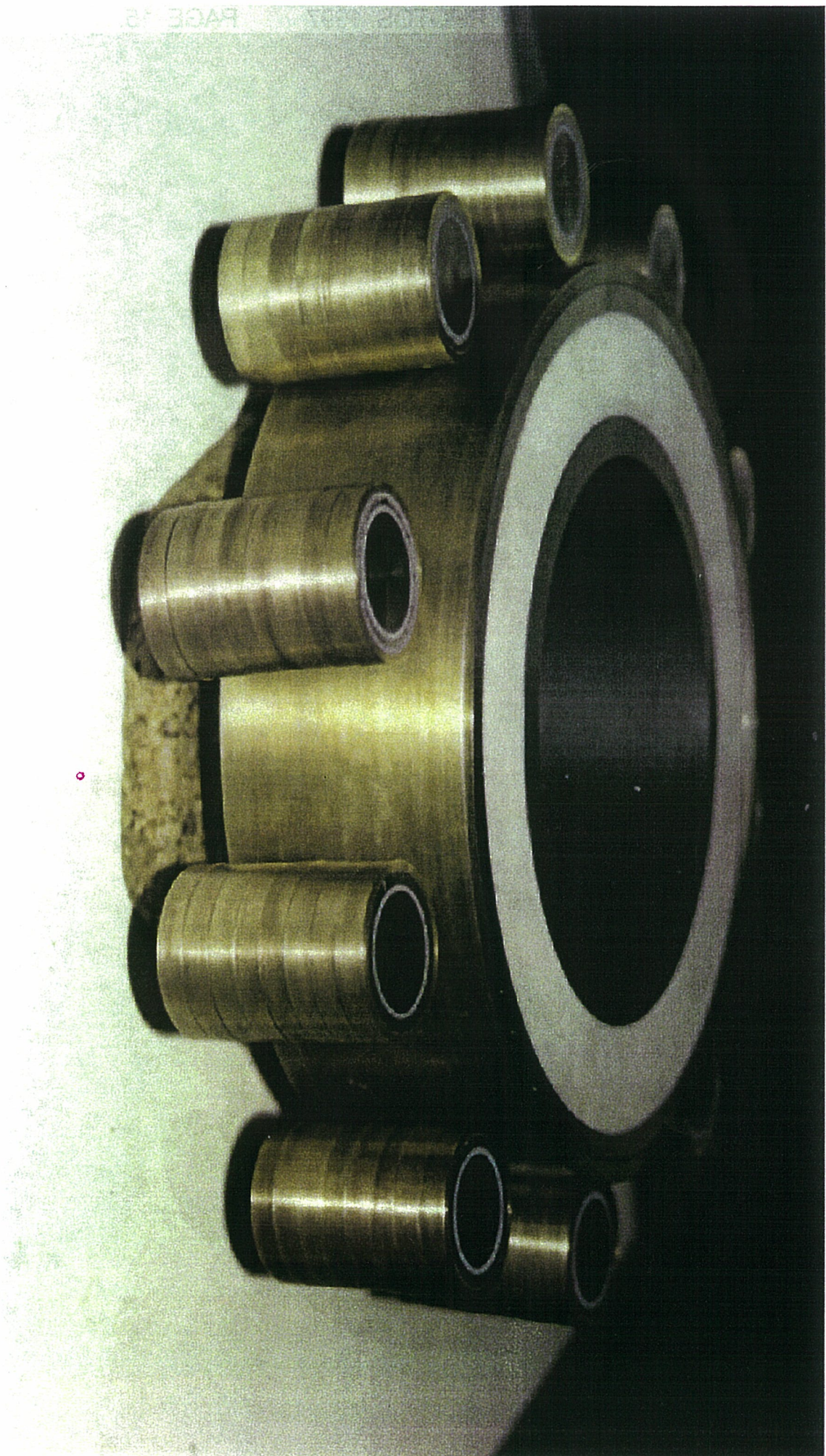




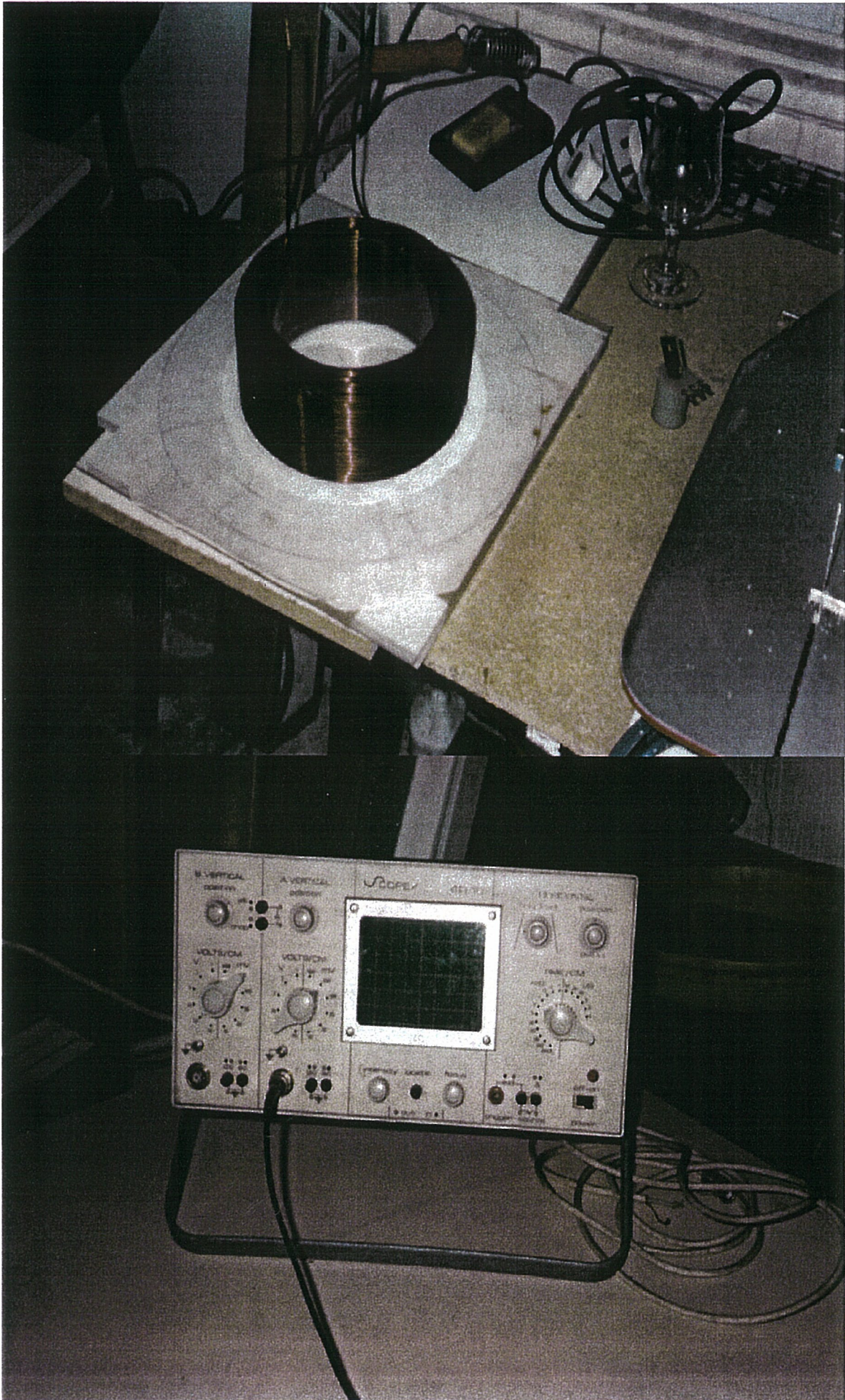


















I have to admit that the cost to send out Christmas cards and postage has risen way beyond my reach - and judging by the number which I received this year - seems to say there are many others who found themselves in the same boat - glad to know that I am not alone in this respect

I actually received one present only this Christmas and that came from John Thomas, thank you John.

But I did receive a £10 cheque in a Christmas card and £5 note in another and £60 cash from a Santa clause in the States who also sent a necklace and ear rings as a present to Susan who gave me a home

But on December 30th, 1997 I received another Christmas card containing a \$100 note.

I wish to thank all of these few, who thought of me this Xmas time, but while you enjoyed yourself on Christmas day, I was extremely busy re-typing Book 1B, the version of 1988 issue, with updates to 1990.

This was Susan's, and her family day, and I was not a part of it. It rather reminds me of my young days, where Christmas day was spent walking the streets, seeing no one but myself. Wondering where I was going to piss as all toilets were shut, and hoping that I wouldn't want to shit.

But this time there was a difference, there was somewhere to piss and shit, from that angle Christmas was different. There were people around me but they did not seem to be able to see me, and they certainly had no time to talk to me. So thus it was, I hate doing nothing, and not being wanted, so I switched on this equipment and got to work, if only to keep my sanity. At least it took my mind off the issue, that my presence wasn't wanted

This Christmas card which I just received yesterday, with that \$100 note is worded such, that it rather supports me in many details, and I think I shall present it here for you to read as well.

### Just in Time for Christmas !

Unfortunate it missed Christmas by 5 days

A list of the "Don'ts and Do's"  
to see you through the New Year

Don't ever stop dreaming your dreams; they're a very essential part of you.

Do whatever you can to make them a reality by the course you take, the plans you make, and all the things you do...

Don't dwell on past mistakes; leave yesterday behind you along with any of its problems worries, and doubts.

Do realise you can't change the past, but just ahead is the



future - and you can do something about that

'Don't try to accomplish everything at once; life can be difficult enough - without adding frustration to the list

'Do travel one step at a time, and reach for one goal at a time. that's the way to find out what real accomplishment is

'Don't be afraid to do the impossible, even if others don't think you'll succeed

'Do remember that history is filled with incredible accomplishments of those who were foolish enough...to believe

'Don't forget that there are so many things that are wonderful, rare, and unique about you

And do remember that if you can search within and find a smile ... that smile will always be a reflection of the way people feel...about you

May All Your Christmas Dreams Come True, thank you Bradley K. Lockerman for that Christmas, alas, this Christmas dreams failed yet again.

I think we can all agree that these words fit me right to the ground. That is why I have put them in this book.

Other than that Christmas was extremely quite - it appears that very few children had presents of any large size.

I only had turkey because that kind chap in the States sent me that £60.00 to help towards the cost.

But many of my old friends failed to even send a card or fax so I guess that the people on this planet are getting ready to die as it is becoming far too expensive to live

1997 has seen some heavy flooding and power cuts plus a long period of dry weather and to top that, on May 2, 1997 I started my pension of £61.41p per month to live on. And I doubt if 1998 will become any better - it will I expect become far worst across the whole frontier of living

In November 1997 we hit a period of extremely hard weather which gave the opinion of a hard white winter - then we hit Christmas with heavy rains and mild weather, and now the sun is shining like spring.

And today the very last day of 1997, with the sun shining bright I have just received a Christmas card from John Thomas U.S.A. and an order for the Book 1 full issue.

I wish you the very best of health to 1998 and may the power be with you!





PHOTO NO. 1



PHOTO NO. 2



## 1 PHOTO NO.1

Prof. Searl shake hands with Pat Bailey at the INE after one of his lectures which he gave - Pat feels that it was a good report which I gave, and promised to help this technology to get of the ground

## 2 PHOTO NO. 2.

Prof. Searl shake hands with Shiusi Inamata after a discussion on the S.E.G. he was very interested. John Thomas standing behind him at the INE Conference

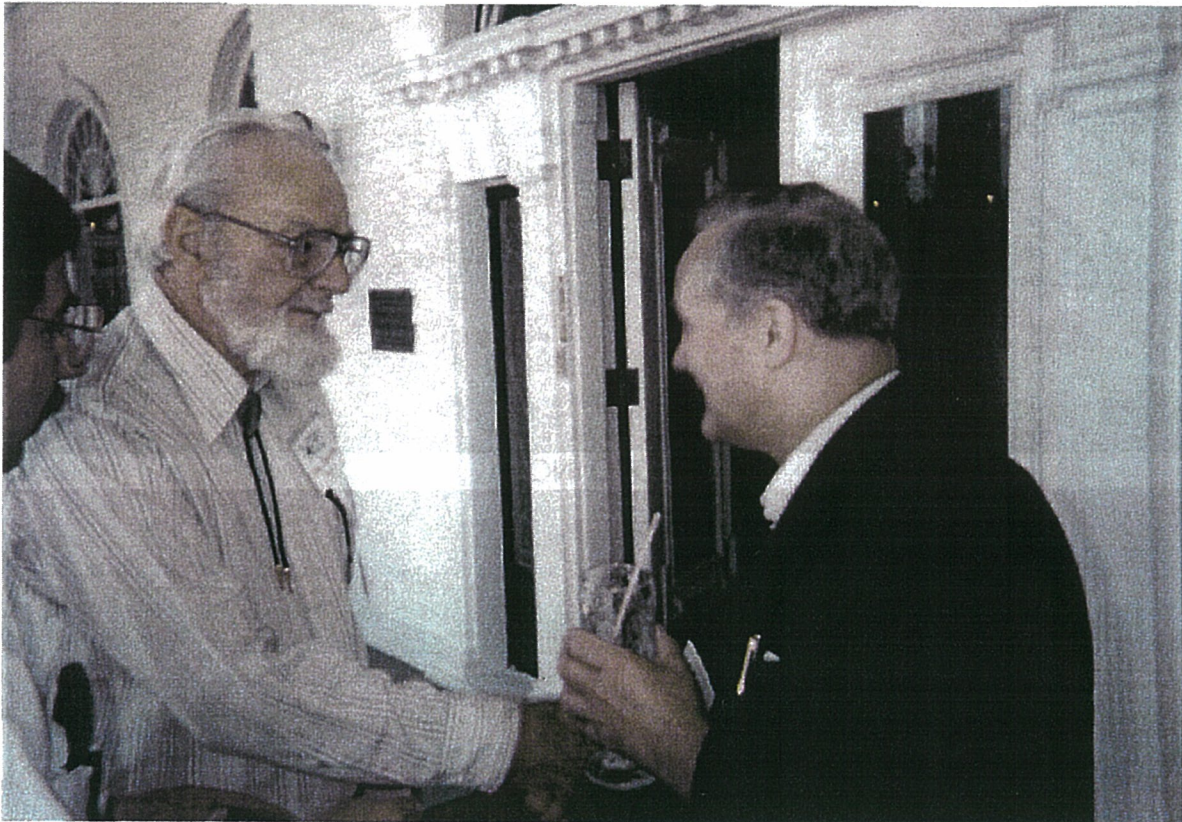


PHOTO NO. 3.

## 3 PHOTO NO. 3.

Prof. Searl shake hands with Ben Iverson after a discussion on the S.E.G. at the INE Conference. In fact he was a delightful person to talk with

4 Now I hope those of you who lay claim that Prof. searl does not meet people, and discuss the S.E.G. with them, will now shut up

5 The problem is that these people promise this and that to Help Searl

6 Unfortunate, time has a peculiar habit of showing if these people are made of real substances or not

many people are just dreamers with no spunk to achieve their objectives





PHOTO NO. 4

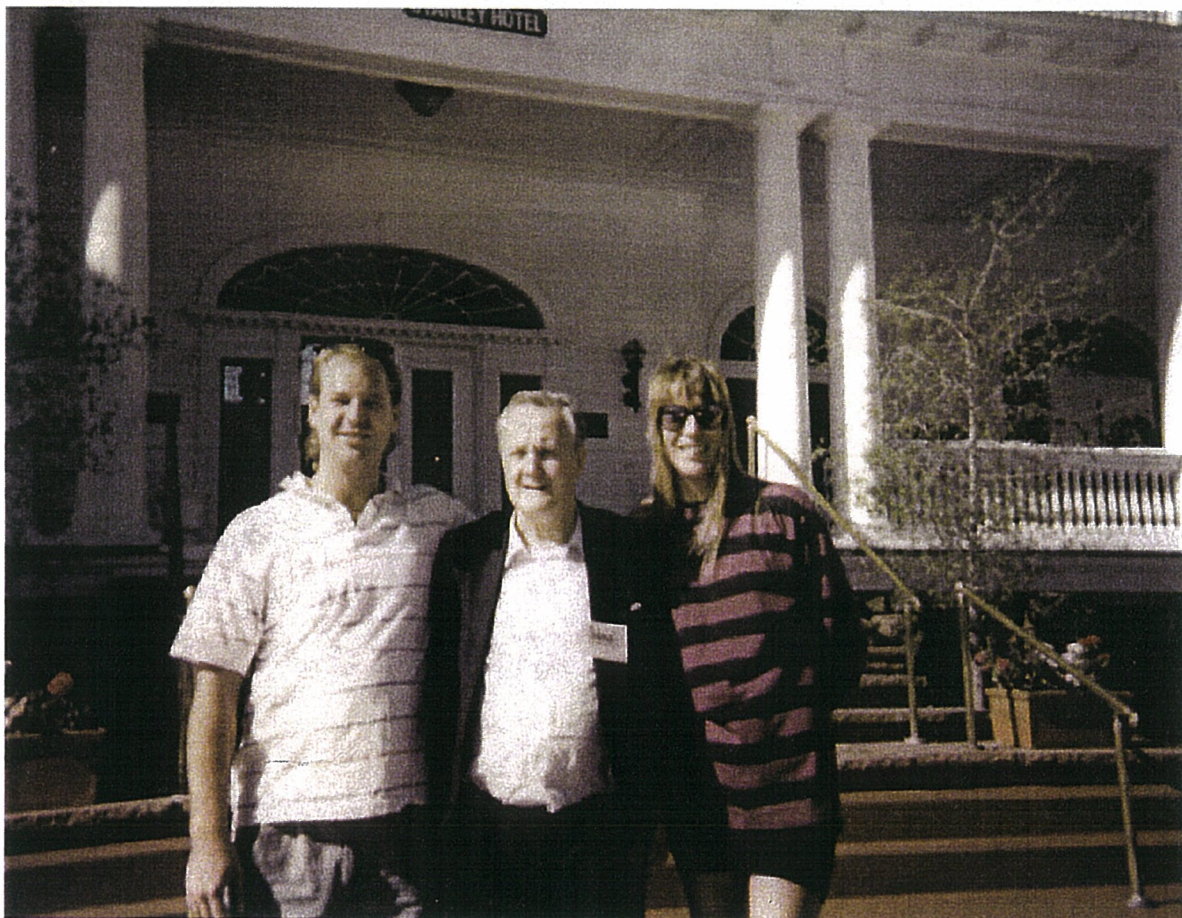


PHOTO NO. 5







7 PHOTO NO. 4.

Prof. Searl shake hands with Tewater after discussion upon the S.E.G.

8 PHOTO NO. 5.

Prof. Searl meets two strangers upon the steps of the Stanley Hotel, in the Rockies, Denver

Who on Earth are they ?

What do you know I have forgotten their names

yet they were interested in the S.E.G.

9 PHOTO NO. 6.

You no doubt know who this person is

yes, its no other than Cook and his associates which includes a backer and his press staff

10 Of cause I have met thousands of people around the world and explained the S.E.G. concept to them

some of them have displayed acts, which are no more then that of an idiot, by knocking me down to impress those who are daft enough to stop and listen to the fools

11 But they will not win, but they will be successful to show those fools who stop and listen to them, that they are complete idiots of the highest order, their day for this great event is just around the corner

12 These 6 photos are just a grain of salt from my records - but I am determined that the people on this planet will know the whole truth regardless, they add to all the others which have and will be released

13 But meeting people of the world to explain this technology, does not create the S.E.G.s

but if it did as some of you think it will, then the S.E.Gs. would be here now

14 But good PR may find the backer / s that can make the concept of the S.E.G. a reality

15 What I am placing my hopes on, is that these books will find that backer, someone who can appreciate that only a person which takes so much interest in so many subjects, must be worthy of backing his ideas to the market place

16 I still praying for that backer but God appears to have gone on holiday





**Explosion of the Delta II rocket at Cape Canaveral  
Debris landed two miles away from the launch site**

- 1 Rocket blast hits Iridium
- 2 Iridium's global mobile satellite communications network suffered a set back on Friday January 17th, 1997  
when the launch of the first three satellites had to be cancelled after a Delta II rocket exploded just after take - off at Cape Canaveral, Florida
- 3 Earlier this month of January, a launch was cancelled because engineers discovered a thermal problem with the liquid oxygen tank
- 4 The project will go on hold until the cause of the catastrophe is known
- 5 Friday's launch should have carried a \$40 m Lockheed Martin Navstar satellite  
a part of the U. S's GPS system
- 6 Photographers two miles from the launch site had to dive for cover as debris from the rocket showered the area
- 7 Several of the 66 Iridium satellites that will complete the web of LEO comms satellites are due to go up this year on Delta rockets
- 8 The rest will be carried by Chinese, Russian and European rockets
- 9 The explosion would delay the launch planned for Monday.  
It is industry practice to suspend all further launches until the investigation produces results





ALIENS HAVE ARRIVED  
COMING SOON TO AN ORBIT NEAR YOU  
IRIDIUM CONSTELLATION OF 66 SATELLITES  
WHAT ANOTHER IMPOSSIBLE ACHIEVEMENT  
SAID THE EXPERTS  
MADE POSSIBLE BY A FOOL LIKE ME !





**THE SKY IS NOT THE LIMIT AFTER ALL**

- 1 Big low Earth Orbit (LEO) Iridium is fully financed  
with over half its constellation of satellites already in orbit



- 2 'All systems are go' for next year's launch  
but will the service really take - off ?
- 3 On November 10, a Delta II rocket lifted off from Vandenberg Air Force Base  
carrying another five Iridium satellites into low Earth orbit
- 4 This brings the number already in orbit to 39  
out of a final constellation of 66
- 5 Big LEO Iridium is now past the halfway mark  
in case you are no good at maths  
in the run - up to service launch planned for September 23, 1998  
which is just around the corner in the time frame slot
- 6 Iridium - backed by an International consortium of leading operators  
promises  
alongside rival Globalstar  
to be the first Global Mobile Personal Communications by Satellite  
GMPCS services operator to provide satellite communications to hand -  
held terminals
- 7 Iridium also aims to be "the first real virtual enterprise"
- 8 Efforts have been taken to reflect this globalisation of purpose in the  
structure of the organisation
- 9 Iridium's ownership structure  
like its coverage  
is global in scope
  - (1) Motorola is the major U.S. backer  
although two thirds of Iridium's ownership is outside the U.S. including
  - (2) Telecom Italia
  - (3) o - tel - 0 in Germany
  - (3) Thai Satellite Communications



(4) Korea Mobile Telecommunications Corporation

10 The US\$5 billion system is an ambitious project to accomplish  
but everything seems to be on schedule

11 Iridium has met all the requirements set by the European Conference  
of Posts and Telecommunications

CEPT

12 Financing was concluded in October with the completion of US\$8  
million in debt financing

after a US\$240 million Initial Public Offering (IPO) in June

since when Iridium's share price has risen by 140 per cent

13 (1) Satellite software loading

(2) inter - satellite links

(3) in - building paging

(4) voice channel ring bursts

and space nodes have been successfully tested

14 Ten gateways are licensed

15 Nine are constructed

16 And three have been tested for connection to the PSTN

17 The European gateway in Fucino, near Rome, is ready for  
implementation

18 Iridium Communications Germany (ICG)

which will service the European continent

has obtained L - band licences in 20 countries

45 per cent of its coverage area

19 Iridium assumes that its primary market will be international business  
travellers who periodically journey outside their normal cellular  
coverage

20 Two converging growth trends support this premise

(1) the growth of international travel



- (2) and that of wireless subscription
- 21 A Gallup survey of 200,000 people from 54 cities in 42 countries resulted in 24,000 passing the 'screen'  
those people expected to take more than four trips per year beyond what their cellular roaming coverage would be by 2002
- 22 Based on this and other criteria  
Iridium calculates its addressable market at 42 million potential subscribers by that date
- 23 That surprises me - because I will not be of them based upon the following question  
how many of those users will be willing to pay US\$2,000 to 3,000 for a hand-set and \$2 - 5 per minute airtime for the extended service?
- 24 I will not be the only one who want be playing that game
- 25 Iridium CEO Dr Edward Staiano claims his break - even point is 350,000 users
- 26 This does not seem like much to ask
- 27 The point does, however, need to be made that Iridium's customer base will necessarily be drawn from among the world's wealthier communications users
- 28 These people tend to congregate in urban centres  
and are arguably the people least likely to be spending large percentages of their working year in remote  
far-flung locations
- 29 Iridium plans to divide its service offerings into four categories  
(1) The Universal package will be Iridium's 'top of the line' service combining satellite and cellular / PCS roaming
- 30 Half of their market will be those people who want seamless satellite and cellular coverage
- 31 Of a total addressable market of 42 million by 2002  
Iridium expects 15.5 million could fall into this segment
- 32 Is Iridium dreaming, if not, then lets say that they are fantasise somewhat at this time, upon a dream of getting rich fast



- 33 Customers would most likely be subscribed to a home cellular operator  
opting for Iridium Universal as a roaming extra
- 34 A satellite - only service might have an addressable market of 4.2  
million
- 35 A typical call scenario here  
calling from an office in New York to a gold mine in Indonesia  
might have the caller simply dial 001-8816 plus the recipient's 10 digit  
Iridium number
- 36 The PSTN international toll switches in New York recognise 8816 as  
an Iridium number  
thereby routing the call  
using Iridium's partner Sprint  
to the closest gateway in Phoenix, Arizona
- 37 The Iridium network would then route the call from satellite to satellite  
over its crosslinks system of satellite switching
- 38 Thus, the international leg of the call is carried by the satellite network
- 39 The location of the Iridium subscriber  
from moment the phone is first switched on  
can be pinpointed to within 10 Km
- 40 It takes the system only seven seconds to know from which satellite  
and which spot beam to send the call
- 41 The Indonesian gold mine Iridium subscriber calling the office in New  
York simply dials the number as an international call
- 42 Iridium's crosslinks network allows for a unique world - wide cellular /  
PCS roaming capability
- 43 With the City - to - City service  
a One Phone / One Number / One Bill service is finally possible

Il will make a break here because this is a subject that could take a book to  
present the facts at this moment in time.

But D.I.S.C. INC. should evaluate this market also - those satellites need  
power to operate - the S.E.G. could meet that demand !

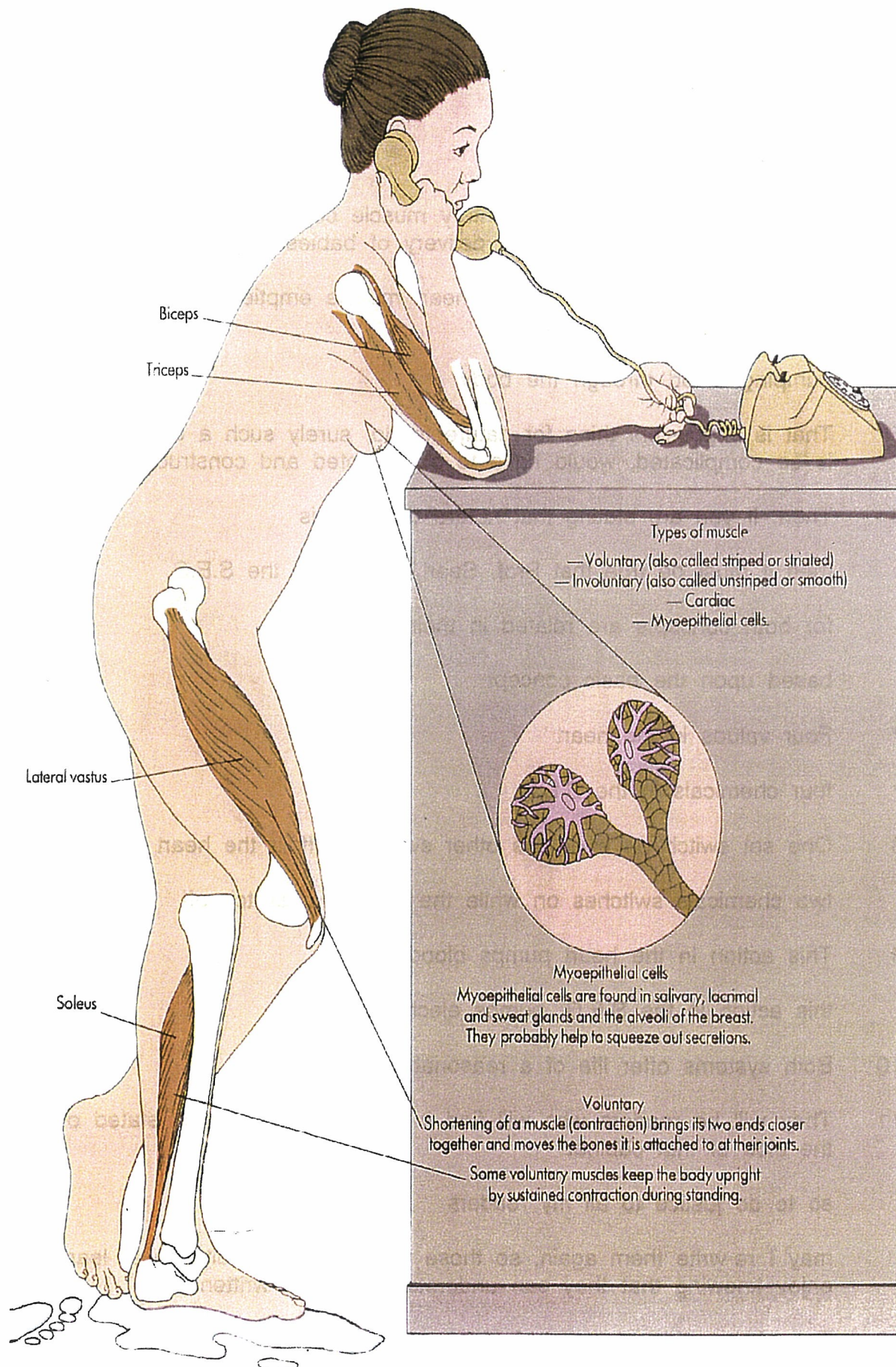












## MUSCLE



- 1 Muscle is a tissue which is able to contract
- 2 Voluntary muscles linking bones can shorten  
producing movement
- 3 In body organs  
the squeezing action of involuntary muscle controls the passage of  
food and body fluids and the delivery of babies
- 4 The rhythmic contraction of the heart muscle empties and fills the heart  
cavity  
pumping blood through the body
- 5 That is impossible thing for nature to do, surely such a device, which  
is so complicated, would have to be invented and constructed by man
- 6 Then, if you are stating that nature did do this  
then it must be true that Prof. Searl can create the S.E.G.  
for both concepts are related in their relationship  
based upon the basic concept
- 7 Four values in the heart  
four chemicals in the S.E.G.
- 8 One set switch on while the other switches off in the heart  
two chemicals switches on while the other two switch off
- 9 This action in the heart pumps blood  
this action in the S.E.G. pumps electrons
- 10 Both systems offer life of a reasonable quality
- 11 They will be readers who will find it hard to read what is stated on  
the side of that cabinet  
so to do justice to all my readers  
may I re-write them again, so those who find it difficult can at least  
enjoy knowing that they can understand what is written there
- 12 Top of that side of the cabinet it states  
Types of muscle



Voluntary (also called striped or striated)

Involuntary (also called unstriped or smooth)

Cardiac

Myoepithelial cells

13 Myoepithelial cells

Myoepithelial cells are found in :

- (1) salivary
- (2) lacrimal
- (3) sweat glands
- (4) the alveoli of the breast

They probably help to squeeze out secretions

14 I have set this section out I hope, in a more better format for you to read

**VOLUNTARY**

15 Shortening of a muscle

contraction

brings its two ends closer together and move the bones it is attached to at their joints

that is of cause, if you still got bones to move

16 Some voluntary muscles keep the body upright

by sustained contraction during standing

and to many people, that can be a hard task to undertake

17 Now if we did not have feet it sure would be a task to stand and walk

18 And that is a question which has puzzled me for many years

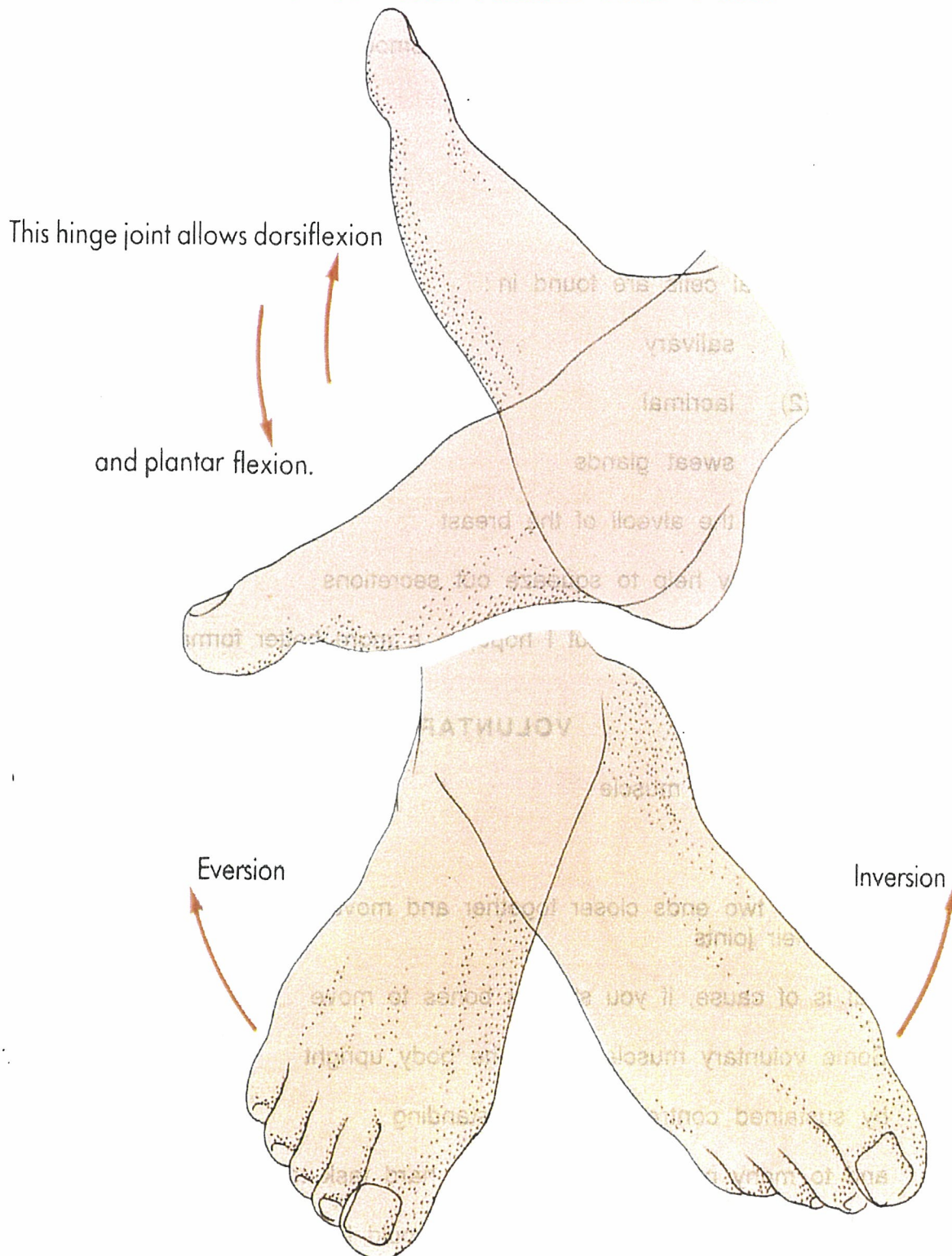
How can something appear from nothing, as that of a Homo Sapiens

19 Surely that is not possible - so are we just an item of imagination

that we are mainly an object of fantasy and not a product of reality !

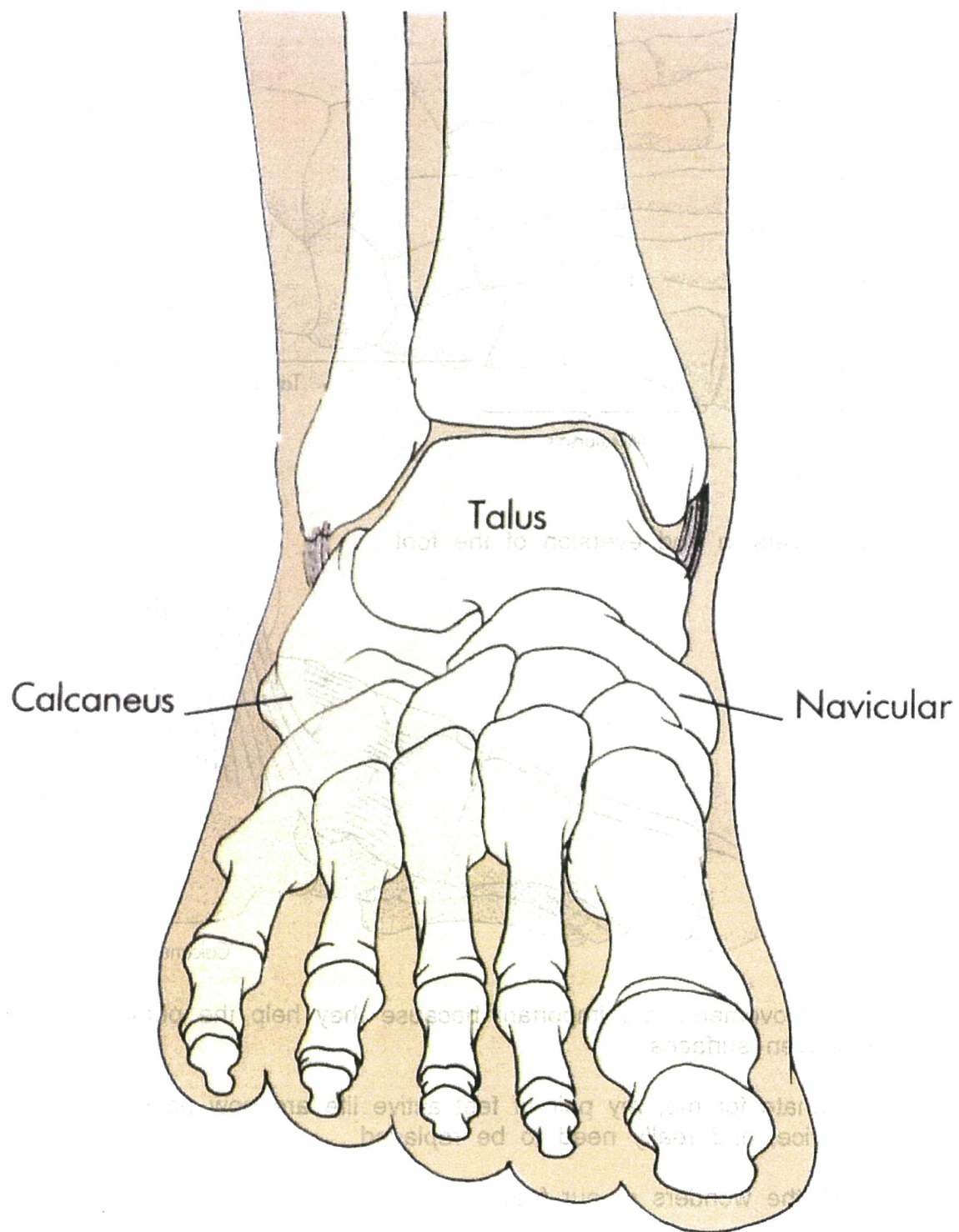


## JOINTS OF THE ANKLE AND FOOT



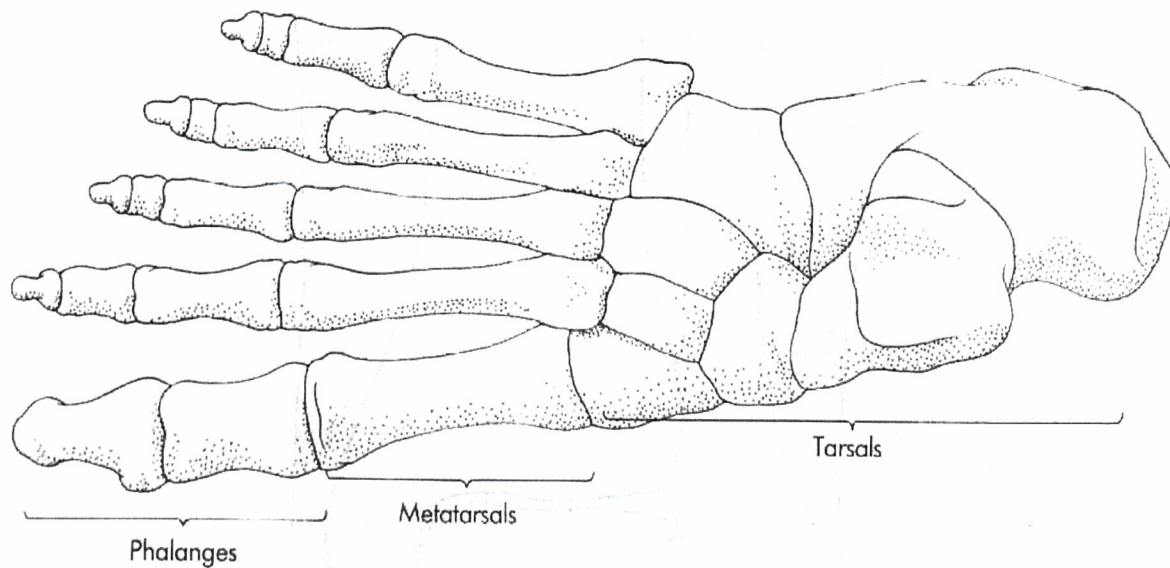
- 1 The joints between the bones of the foot allow it to form springy arches
- 2 These support the body's weight and propel it forward during walking and running
- 3 Unlike apes, humans have little ability to grip with their toes



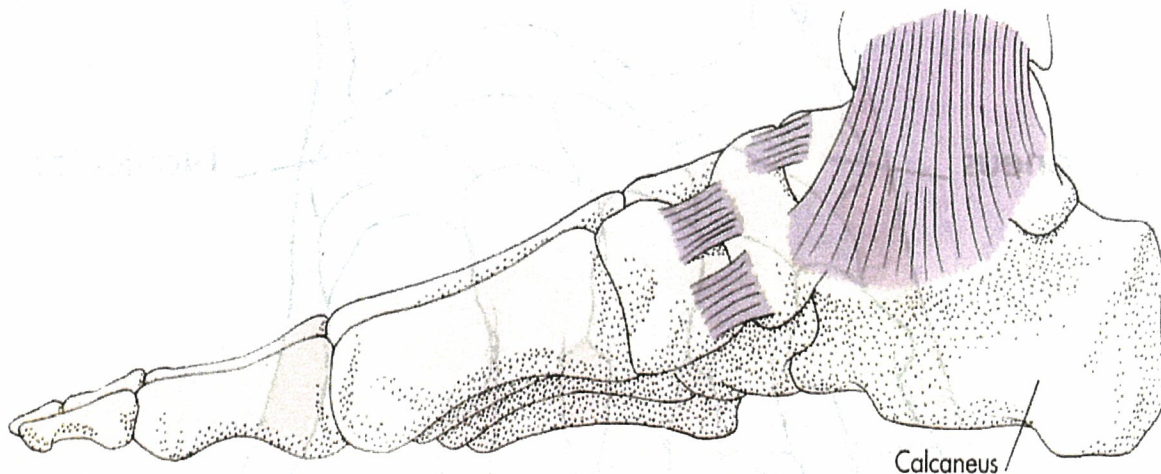


- 4 The lower ends of the tibia and fibula with their ligaments form a socket for the talus
- 5 The joints between the upper tarsal bones
  - (1) talus
  - (2) calcaneus
  - (3) navicular



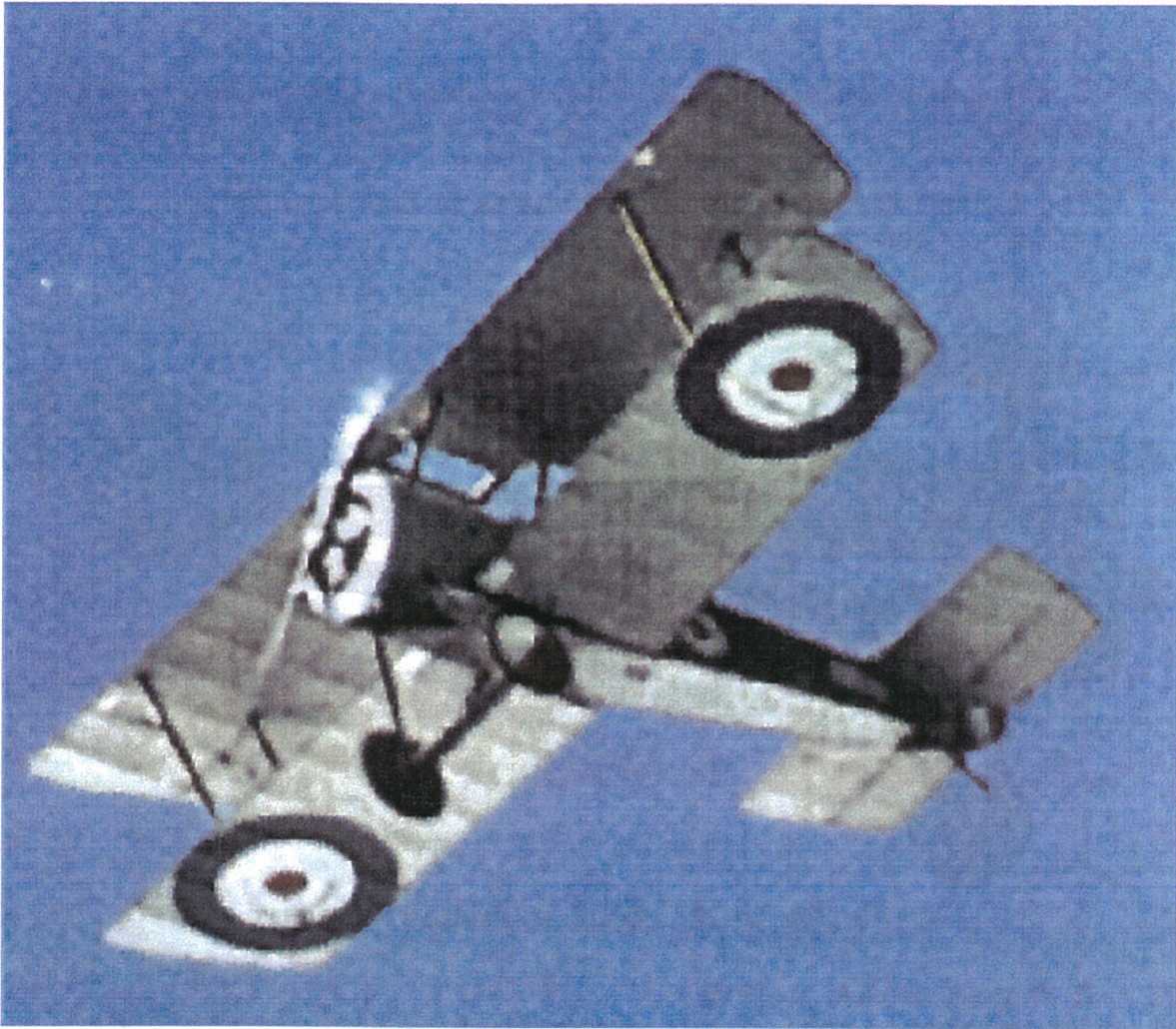


allow inversion and eversion of the foot



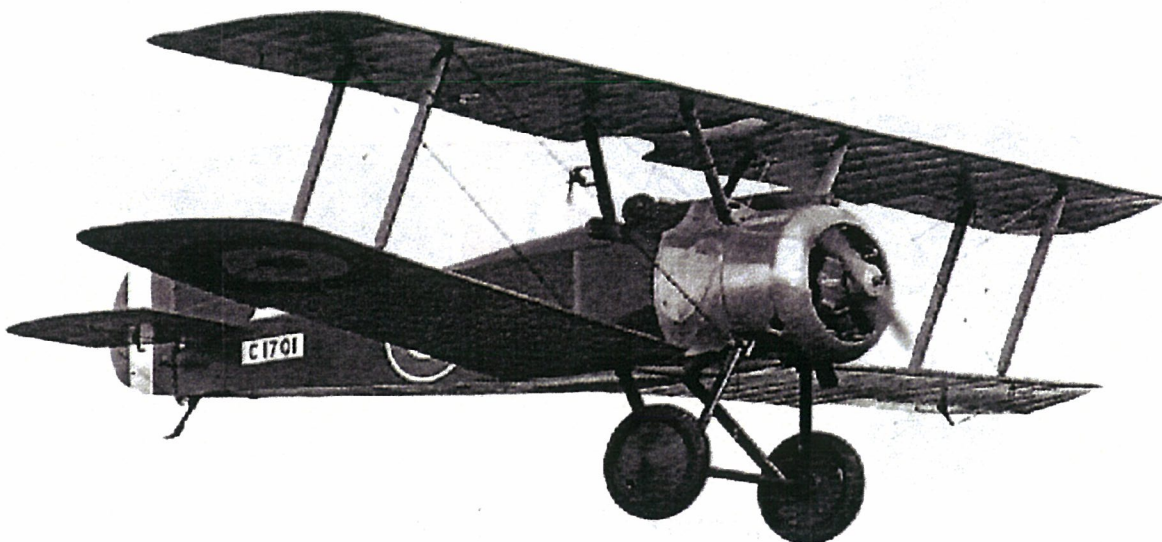
- 6 These movements are important because they help the person to walk on uneven surfaces
- 7 Unfortunate for me, my pair of feet active life are now past their date of service, and really need to be replaced
- 8 Yet all the wonders of our feet  
both in design and function  
leaves you wondering why that nature in all its wisdom  
gave them the power to create an awful stink
- 9 Maybe that was to be used as weapon to protect yourself from attack  
unfortunate in my case, it only seem to happen, when I am about to get a leg over, which drives that girl away, without completing that task
- 10 Isn't it strange, that rubber dolls never complain about the smell !





**CAMEL REPLICA**

- 1 Although 5,490 were completed in the last two years of World War 1  
none have survived in flying condition
- 2 The only Camels to be seen in the air today are replicas

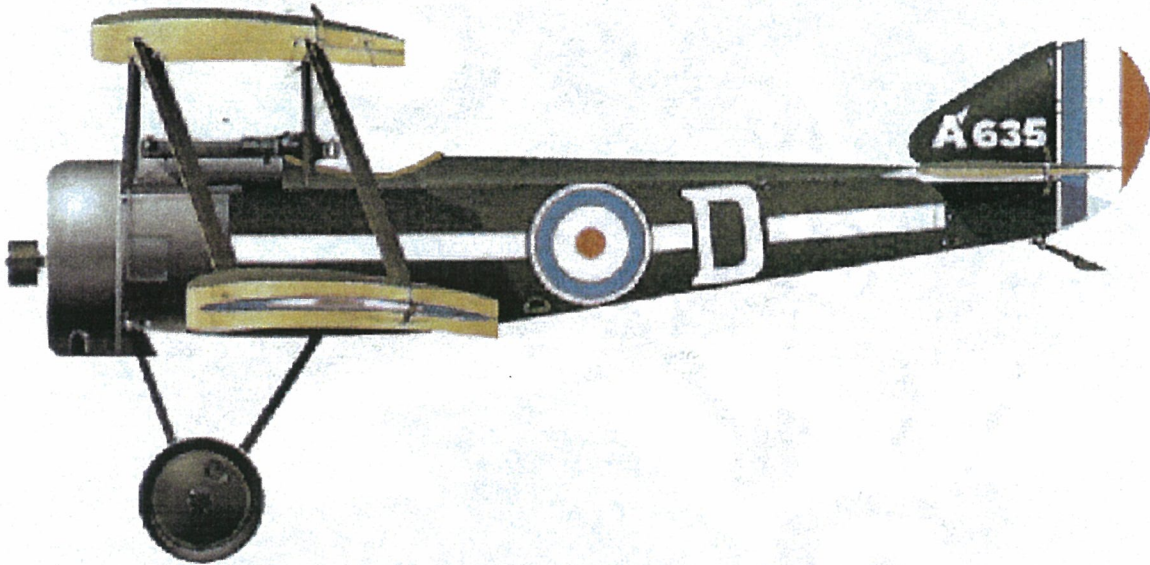




3 Sopwith Camel

Combining a good climb rate with twin - gun firepower and immense agility

4 The Camel helped restore Allied fortunes in the sky after the disastrous defeats of April 1917



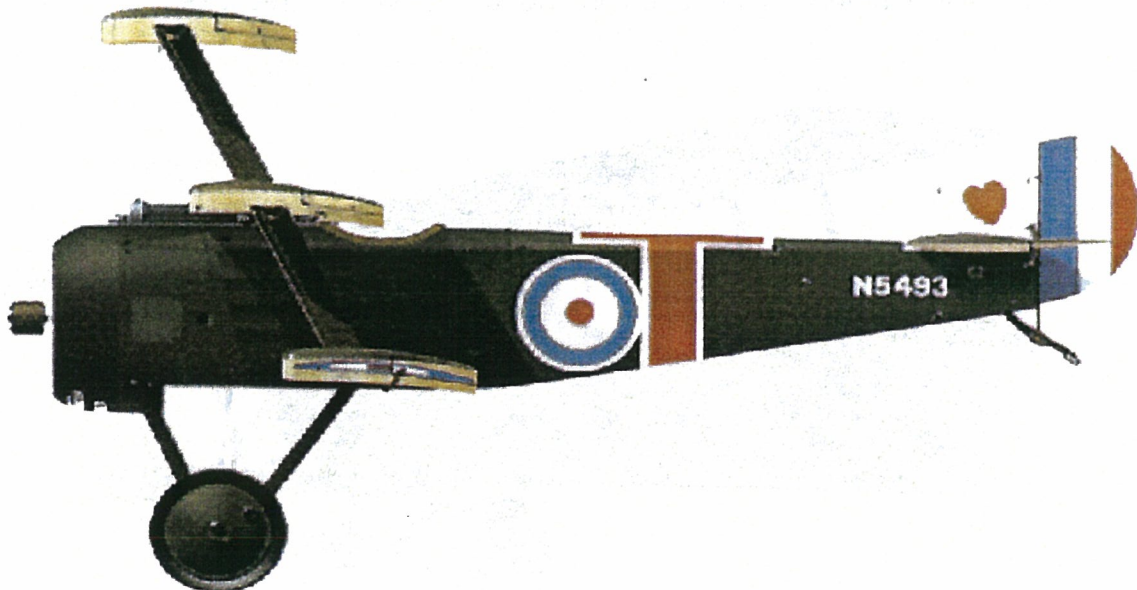
**SOPWITH PUP SINGLE - SEAT SCOUT**

5 It entered service in 1916

6 The Pup was underpowered but reasonably fast

7 It had a good climb rate and was very agile

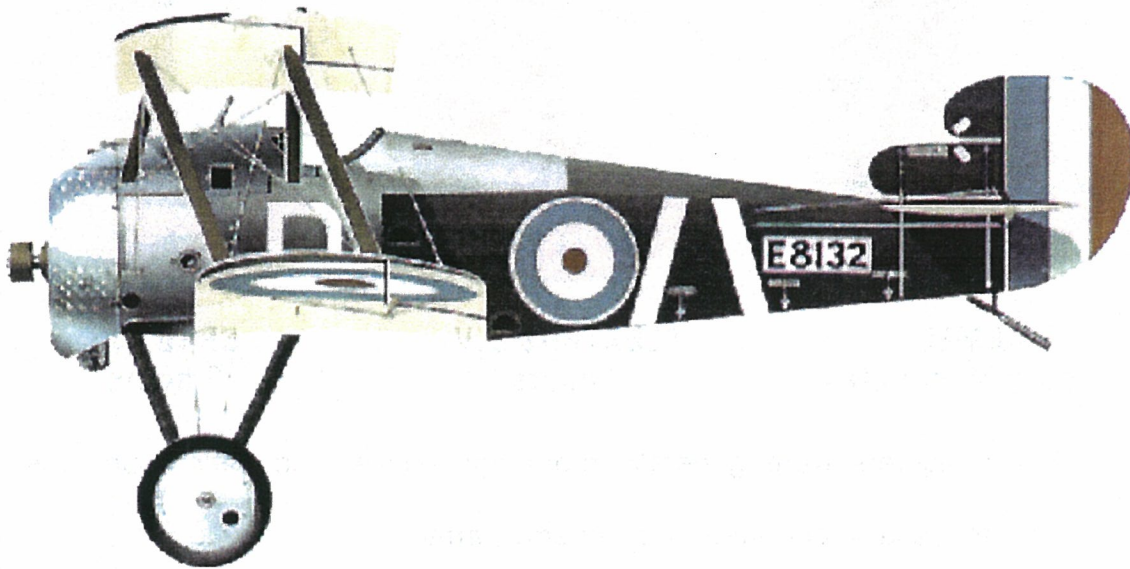
8 It was very much a pilot's aircraft



**SOPWITH TRIPLANE**



- 9 The Sopwith Triplane appeared in 1916 as a variant of the Pup
- 10 It had an extra wing for added lift and increased climb performance






**SOPWITH SNIPE**

- 11 A development of the Camel with more power
- 12 More speed and more forgiving handling
- 13 The Snipe entered service in the last months of the war

**14 COMBAT DATA**

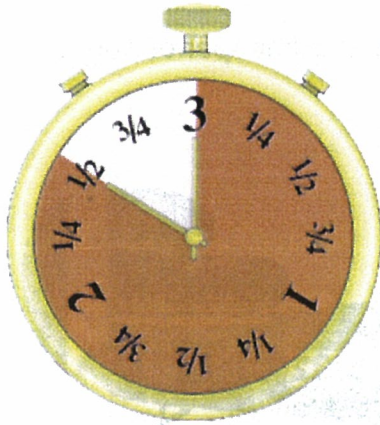
**MAXIMUM SPEED**

<b>CAMEL</b>	<b>188 km/h</b>	
<b>ALBATROS D.V</b>	<b>165 km/h</b>	
<b>SPAD XIII</b>	<b>215 km/h</b>	

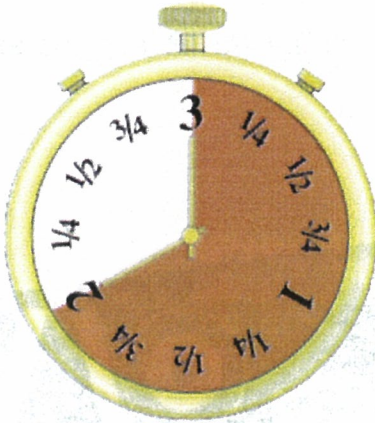
- 15 The Camel was reasonably fast and had a speed advantage over the Albatros D.V. which appeared at the same time
- 16 Other Allied fighters like the SPAD and the S.E.5 were considerably quicker
- but lacked the Camel's incredible agility
- 17 Again proving that the impossible is possible it just takes more effort !



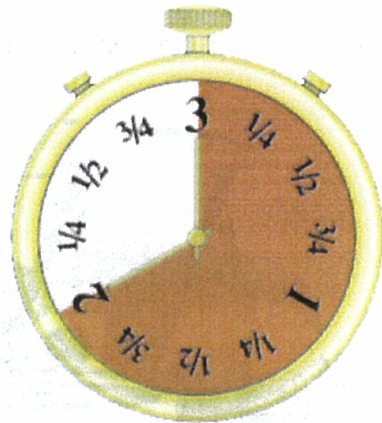
18 **ENDURANCE**



**CAMEL**  
2 hours 30 minutes



**ALBATROS D.V**  
2 hours



**SPAD XIII**  
2 hours

- 19 British fighters were generally more aggressive than their opponents
- 20 Scouts usually operated over enemy territory
- 21 They needed to be able to stay in the air longer than German machines which
- with a few notable exceptions
- patrolled close to their home airfields

22 **ARMAMENT**



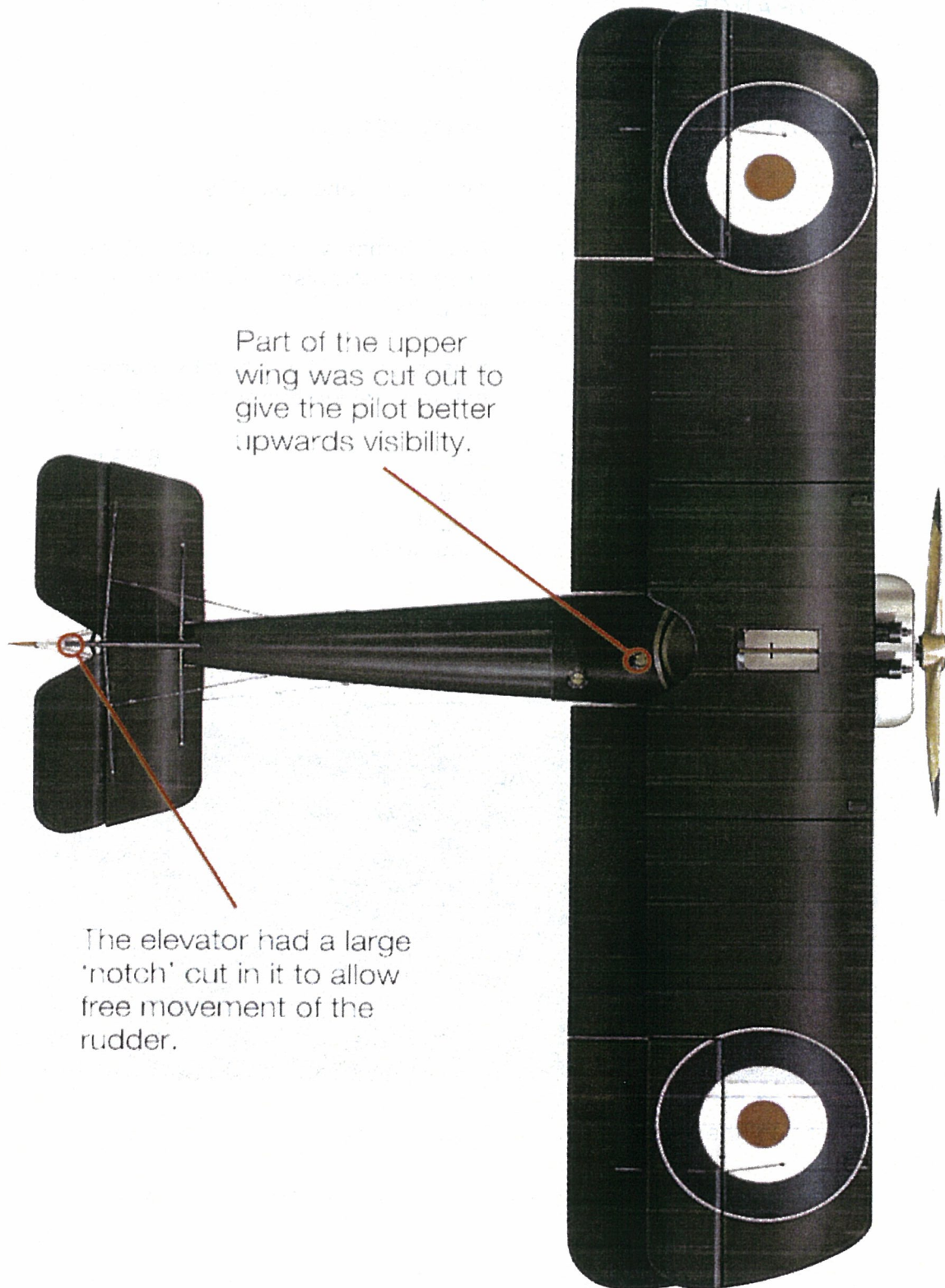


23 Most fighters of 1916 had a single machine gun synchronised to fire through the blades

24 The Camel's generation of scouts invariably carried two guns

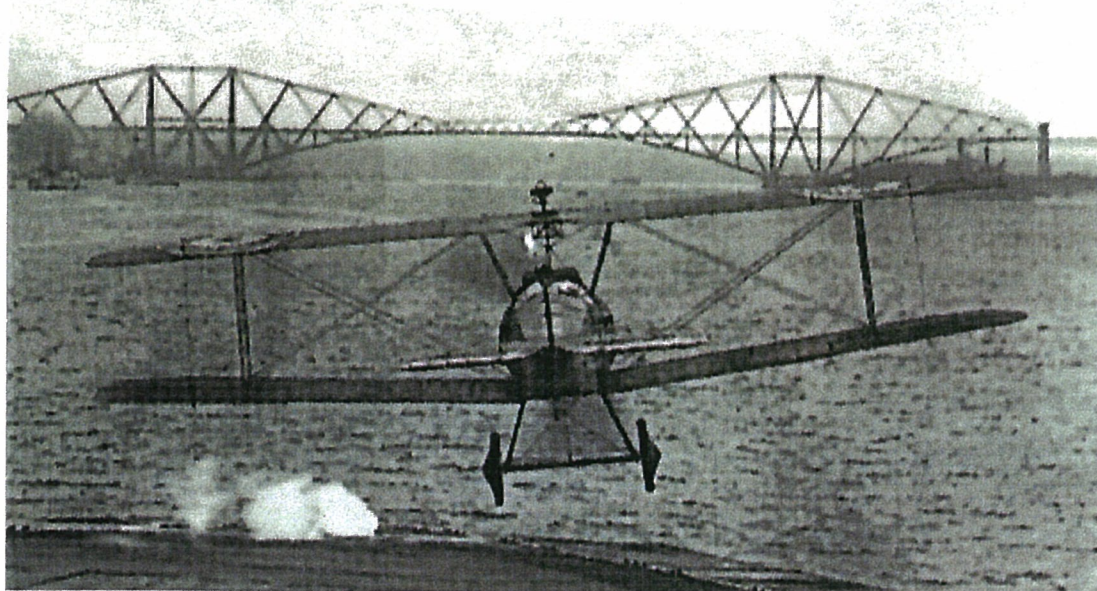
which was to remain the standard fighter armament for the next 15 years

25 **SPECIFICATIONS CAMEL F.1.**





- 26 **TYPE** : single - seat fighting scout
- 27 **POWER PLANT** : one 97 - KW Clerget nine cylinder air - cooled rotary piston engine
- 28 **MAXIMUM SPEED** : 188 km/h at sea level
- 29 **CLIMB RATE** : 10 minutes to 3,000 m
- 30 **ENDURANCE** : 2 hours 30 minutes
- 31 **SERVICE CEILING** : 5,790 m
- 32 **WEIGHTS** : empty 421 kg  
maximum take - off 659 kg
- 33 **ARMAMENT** : two 7.7 mm Vickers machine - guns on nose synchronised to fire through the propeller  
plus four 11.35 kg bombs carried on external racks beneath the fuselage
- 34 **DIMENSIONS** : span 8.53 m  
length 5.72 m  
height 2.60 m  
wing area 21.46 m<sup>2</sup>



35

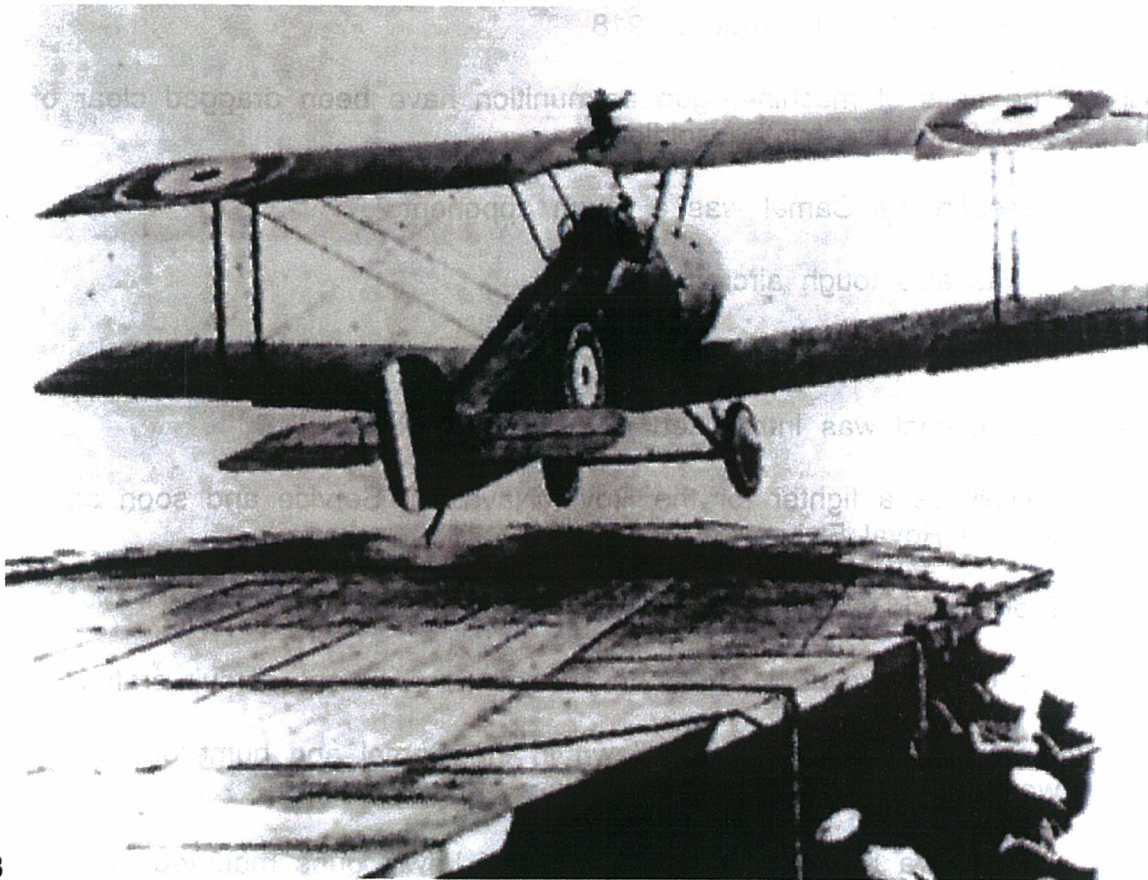
Britain led the world in taking aircraft to sea

36 This Camel was launched during trials in the Forth estuary from the carrier HMS Furious

37 What I am stating here is that an **IMPOSSIBLE** project became



**POSSIBLE** because some one had faith in what they believed to be possible, and made it possible

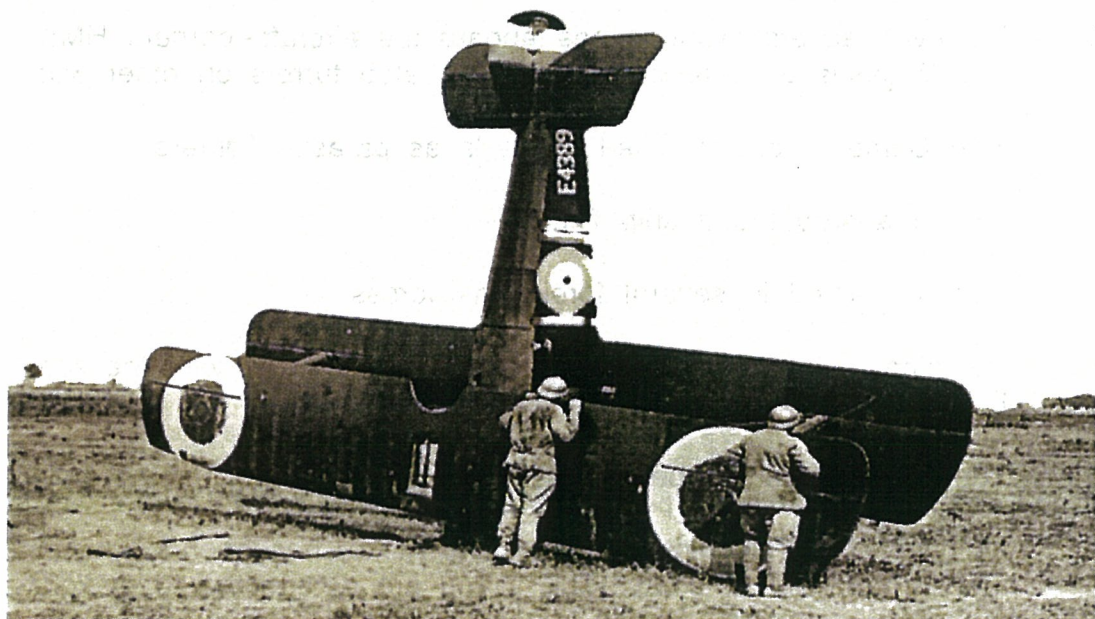


38

### DECK LAUNCH

The Camel was used in carrier trials by HMS Pegasus in November 1919

- 39 The sailors watching from the lower deck obviously doubted whether the experiment would work



40



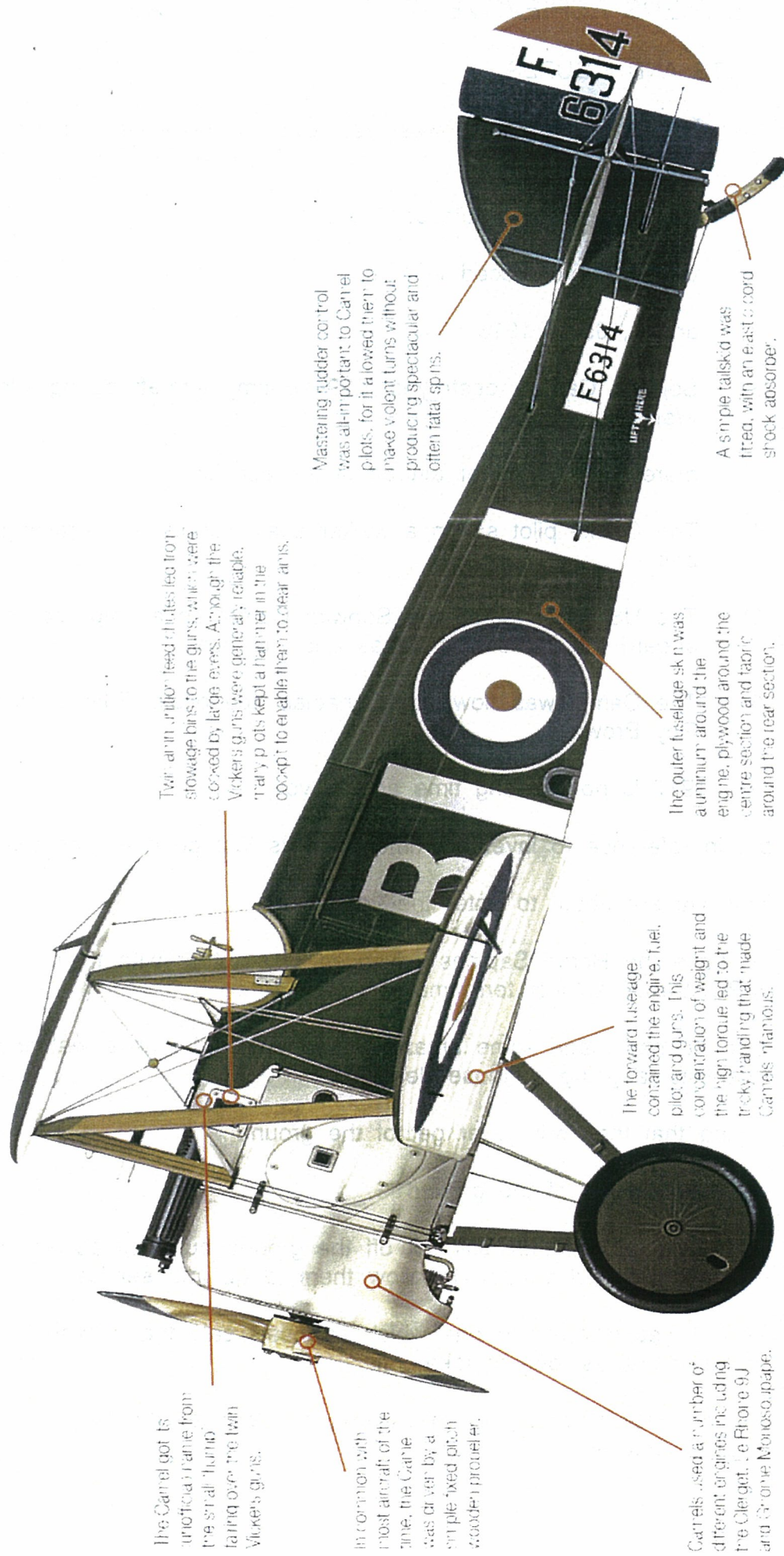
## DOWN IN NO-MAN'S LAND

This Camel crashed between the Canadian and German lines at Villers le Roye in August 1918

- 41 The belts of machine - gun ammunition have been dragged clear of the aircraft for use by the soldiers
- 42 Although the Camel was a tough opponent  
it was also tough aircraft to fly
- 43 Many novice pilots died in spinning incidents
- 44 The Camel was introduced in 1917
- 45 Initially as a fighter for the Royal Naval Air Service and soon afterward for the Royal Flying Corps
- 46 From its first appearance at the Battle of Ypres  
the Camel proved itself to be an agile and potent pursuit craft
- 47 Many rotary engines were flown in the Camel and numerous versions were built
- 48 Including a night fighter with a pair of Lewis guns mounted above the top wing centre section
- 49 Most Camels lifted off noisily from grass strips to fly to the Front and beyond  
to engage Fokker, Pfalz and other German war planes
- 50 Some of these high performing Sopwiths had special tasks
- 51 However, several went to sea aboard the aircraft - carriers HMS Furious and Pegasus or were catapulted from atop turrets on other war ships
- 52 Two Camels were modified for trials as parasite fighters  
carried aboard the airship R.23
- 53 Camels served in several foreign air forces  
including those of Belgium and Greece as well as with the American Expeditionary Force
- 54 The next picture will be the last upon this craft

as I feel that the point that I want to make, has been clearly made, the IMPOSSIBLE is POSSIBLE if you are determined to make it so !





This Camel served on the Western Front in 1918 with "B" flight, 210 Squadron RAF, previously 10 Naval Squadron RNAS



55 FACTS AND FIGURES

- (1) The Camel prototype was first flown by Harry Hawker in January 1917
- (2) Camel production totalled 5,490  
with 1,325 produced in 1917  
and 4,165 in 1918
- (3) Sopwith Camels destroyed 1,294 enemy aircraft during World War 1  
  
more than any other aircraft of the conflict
- (4) The Camel pilot sat in a wicker chair without a restraining seat belt
- (5) The US Navy tested the Sopwith Camel as a ship - borne fighter aboard the battleships Texas and Arkansas
- (6) The Camel was flown by Canadian ace pilots 'Billy' Barker and Roy Brown

56 Yes, 1917 is now a long time ago to you  
  
but in reference to inventors time band its just gone around the corner

57 Now we are about to enter the year 1998

So have the Homo Sapiens advanced any further with their IMPOSSIBLE subject term manned flight ?

58 Yes, he has made some amazing advances and I have watched the scientists laughing at those designers

saying that they will never get of the ground

but they did get of the ground

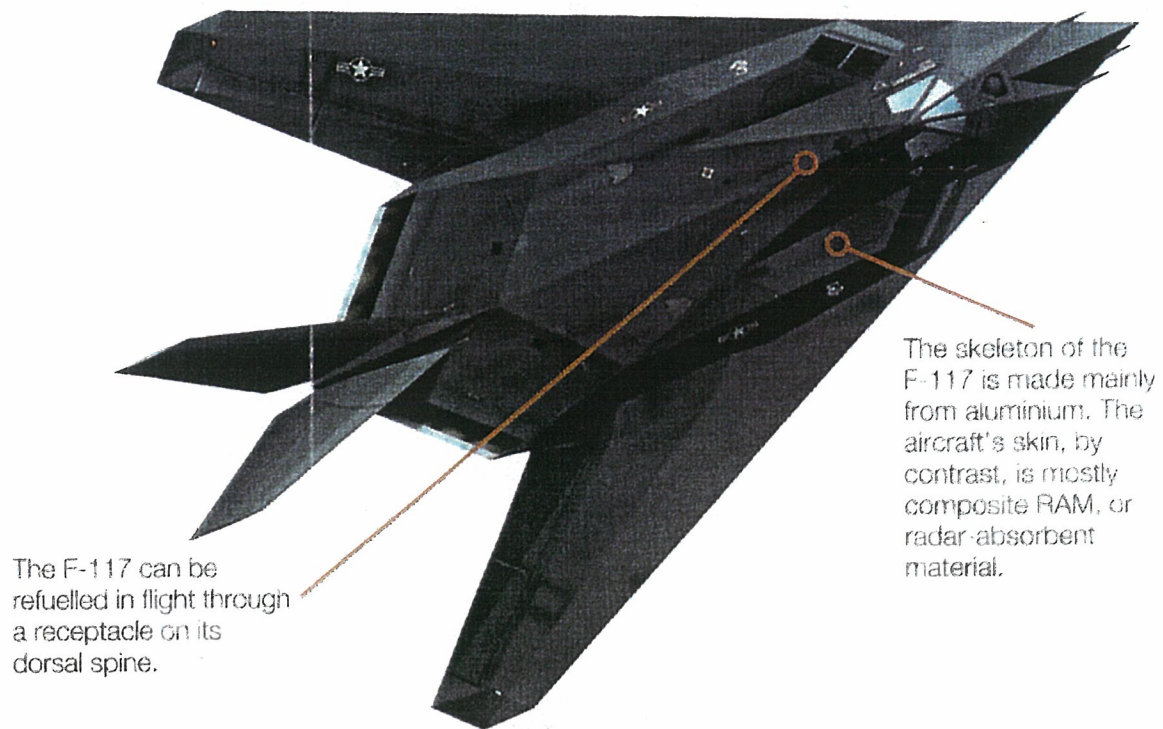
59 Some did fail but they still got off the ground but their power plant was not powerful enough to allow them to go into service

60 Even I was involved in one which scientists said that it would need a runway twice as long to take - off

but in reality it turned out that it only needed half the length of the original runway

61 Yes, that was the VC10 - proving yet again, experts are not worth their weight in gold





### THE INVISIBLE BOMBER

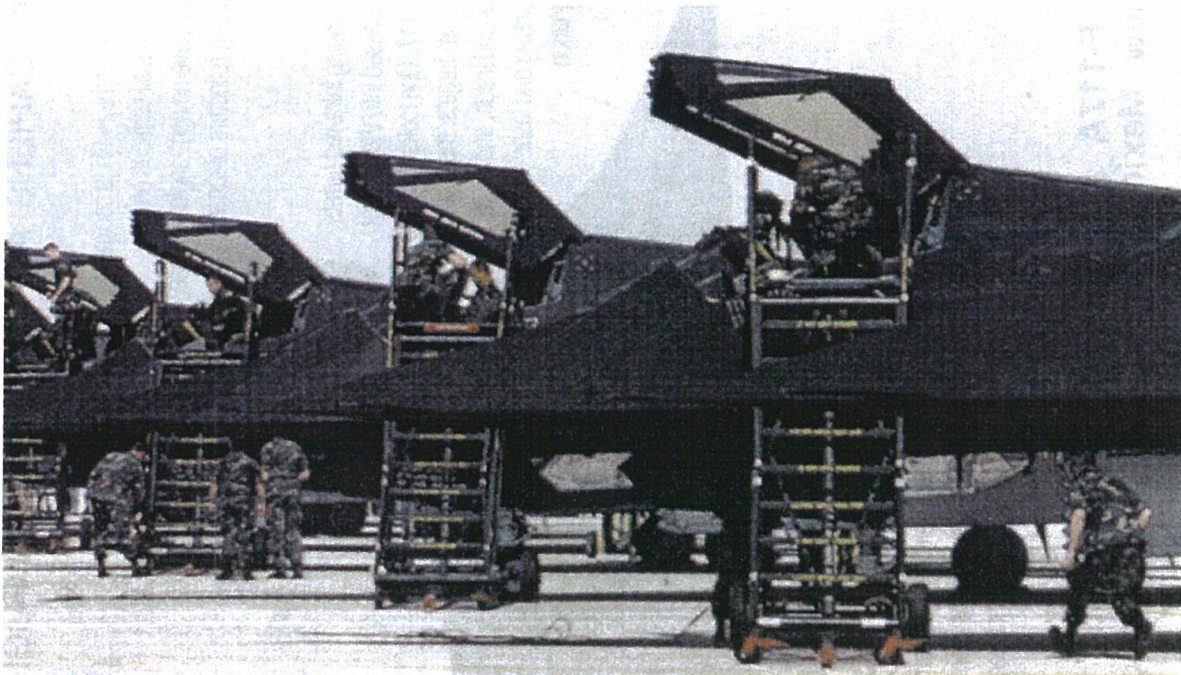
- 62 The sky over a modern battlefield is a dangerous place
- 63 Radar - guided missiles and guns endanger any aircraft flying more than a few inches above the ground
- 64 Flying fast and low makes survival more likely
- but at the same time makes hitting the target a matter of split - second timing
- 65 In an attempt to counteract the seemingly impossible advantage to the defenders
- Lockheed's shadowy 'Skunk Works'
- the Advanced Development Project Office
- was contracted by the U. S. Department of Defence in the late 1970s to produce a low observable strike fighter
- 66 Operational by 1983
- the F-117A 'Stealth' fighter is perhaps the most unusual aircraft ever flown
- 67 Please NOTE that no Aliens were involved in its design or construction
- 68 The F-117's unusual shape and the advanced materials from which it is manufactured make the 'Stealth' fighter all but invisible to radar



**69 SPECIFICATION F - 117A NIGHTHAWK**

- |     |                        |   |  |
|-----|------------------------|---|--|
| (1) | <b>TYPE</b>            | : | single - seat low - observable strike bomber                           |
| (2) | <b>POWER PLANT</b>     | : | two 48.05 kN non - after burning General Electric F404-GE-F1D2 engines |
| (3) | <b>MAXIMUM SPEED</b>   | : | Mach 1 (estimated)   |
| (4) | <b>COMBAT RADIUS</b>   | : | 1,200 Km unrefuelled with 2,250 Kg weapon load                         |
| (5) | <b>SERVICE CEILING</b> | : | not revealed   |
| (6) | <b>WEIGHTS</b>         | : | empty 13,600 Kg<br>loaded 23,814 Kg                                    |





### AN EXPENSIVE BIRD

Only 59 production 117s were built  
for a total programme cost of over six billion dollars

(7) **ARMAMENT** : up to 2,500 Kg carried internally  
Principal weapons are BLU-109 low -  
level or GBU10 / GBU27 medium - level  
laser - guided bombs

Provision for two AIM-9L air - to - air  
missiles

(8) **DIMENSIONS** : span 13.20 m  
length 10.08 m  
height 3.78 m  
wing area (estimated) 106.00 m<sup>2</sup>

70 By flying at night

the black jet is also invisible to the eye

71 Because it can't be detected

the F-117 can take its time in attack

72 This makes for remarkably accurate weapon delivery

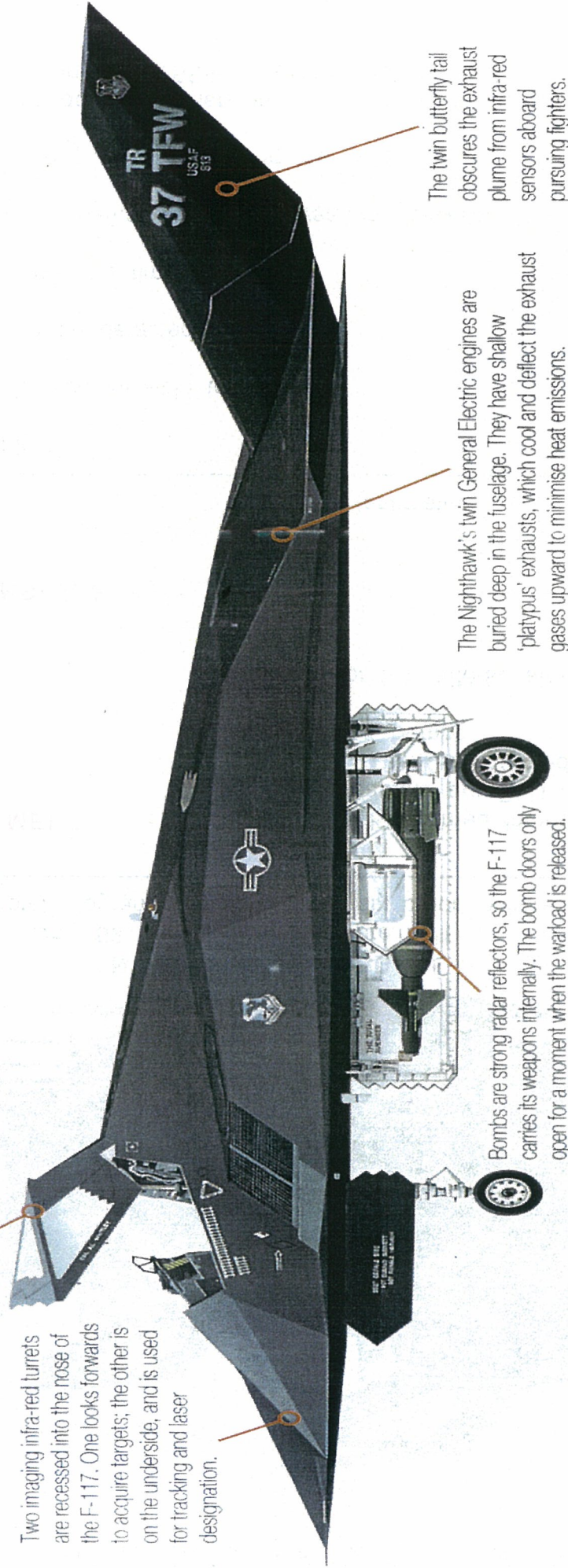
as was shown to great effect during the Gulf War

73 Yes, there is no doubt that here in this book are the proof that there  
is absolutely nothing IMPOSSIBLE except that the state of your mind  
makes it so



The edges of the F-117's cockpit canopy, like all surfaces on the aircraft, have no right-angles - these are strong reflectors of radar.

Two imaging infra-red turrets are recessed into the nose of the F-117. One looks forwards to acquire targets; the other is on the underside, and is used for tracking and laser designation.



The twin butterfly tail obscures the exhaust plume from infra-red sensors aboard pursuing fighters.

The Nighthawk's twin General Electric engines are buried deep in the fuselage. They have shallow 'platypus' exhausts, which cool and deflect the exhaust gases upward to minimise heat emissions.

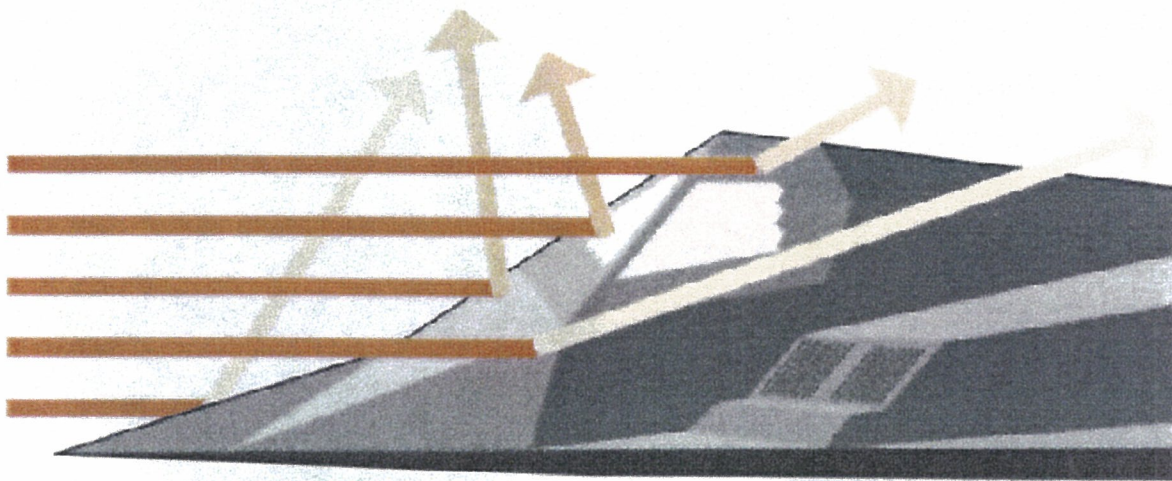
Bombs are strong radar reflectors, so the F-117 carries its weapons internally. The bomb doors only open for a moment when the workload is released.

## F-117A NIGHTHAWK

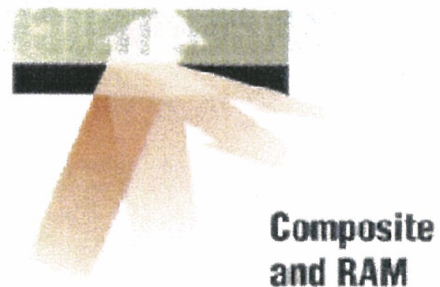
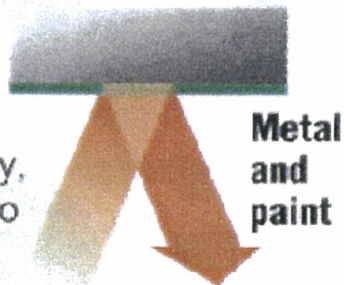
The F-117A is operated by the 49th Fighter Wing (formerly the 37th FW) based at Holloman AFB in New Mexico - which of cause accounts for all those UFO sightings which are claimed



### HOW STEALTH WORKS



Radar Absorbent Material (RAM) and composites absorb radar energy, leaving much less to be reflected.



74 The Stealth fighter has two main means of defeating enemy radar

75 The faceted construction deflects most radar energy in multiple directions

with only a very small fraction being intermittently reflected back to the transmitter

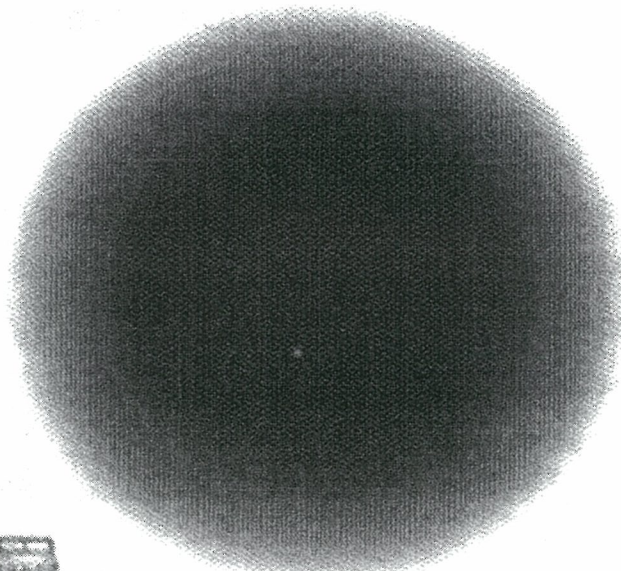
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### 76 FACTS AND FIGURES

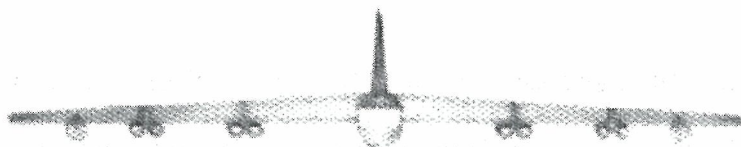
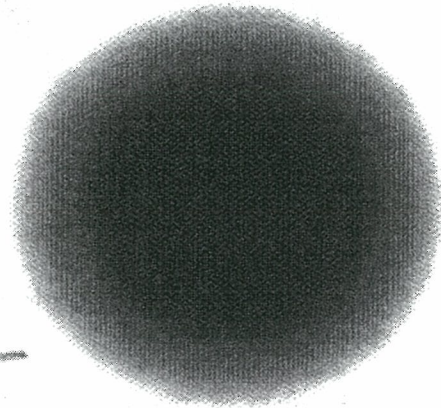
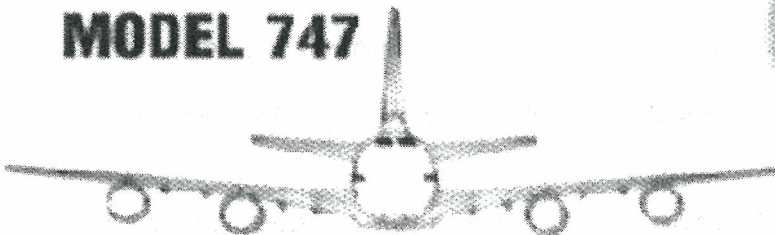
- (1) The 40 F-117's deployed to the Gulf flew more than 1,270 missions  
dropping 30 per cent of all Coalition precision - guided munitions
- (2) One B-52 bomber has a larger radar cross section than all of the F-117's put together
- (3) The F-117 was operational for seven years before it made its first public appearance
- (4) The F-117's weapons system can hit a target a metre square
- (5) The first combat use of the F-117 came in Panama on 21 December 1989



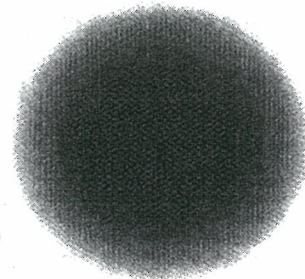
**THREE-TONNE  
PARCEL TRUCK**



**MODEL 747**



**B-52G STRATOFORTRESS**



**B-1B LANCER**



**F-117A NIGHTHAWK**





a square metre

about the same as that of a seagull

---

77 Figure on page 56 :

**RADAR CROSS - SECTION**

Radar cross - section is a measure of how large an object appears to be on a radar screen

78 Several things affect the cross - section

79 Right - angles are very good reflectors of energy

hence the immense signal return by the truck

80 The fan blades in jet engines also return a significant signal

which is why the Boeing 747

with its huge exposed turbofans

81 Or the B-52

with its eight engines

generate such large returns

82 Both of the more modern aircraft show how effectively the radar cross - section can be reduced

---

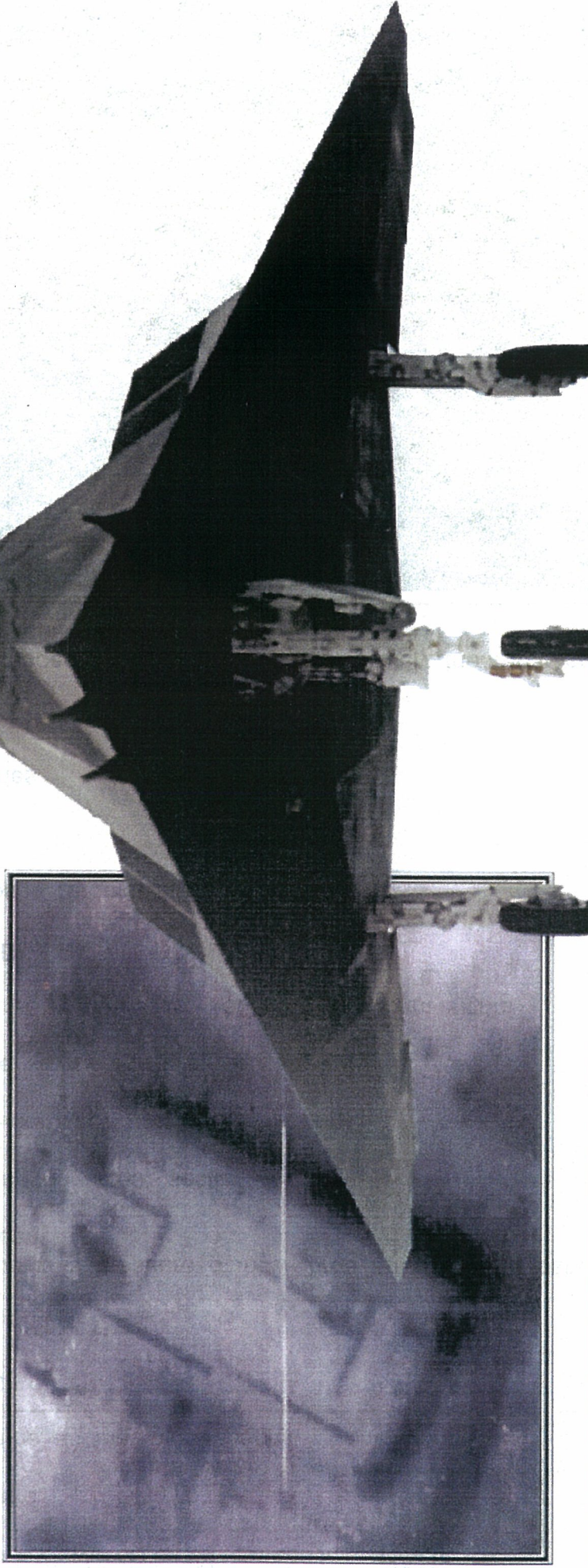




## HOMO SAPIENS ACHIEVEMENTS IN FLIGHT

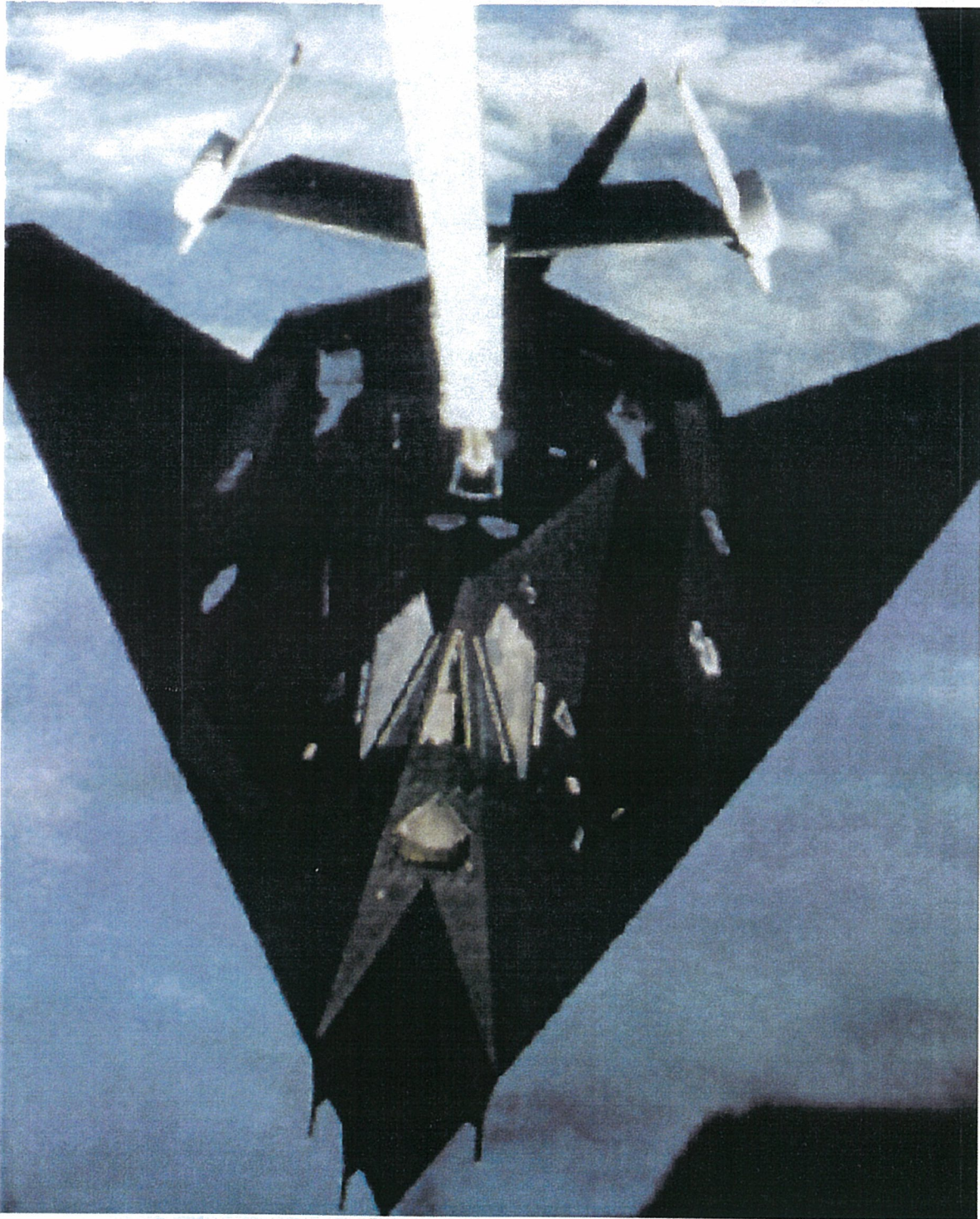
PAGE 58.

83 The last picture shows what the F-117 which was the only Coalition aircraft able to operate with impunity over Baghdad's extensive anti - aircraft defences



GULF WAY SPEARHEAD forty F-117's were deployed to the Gulf





**THE 'WOBBLIN' GOBLIN**

84 Rumours abounded that the handling of the F-117 was somewhat erratic

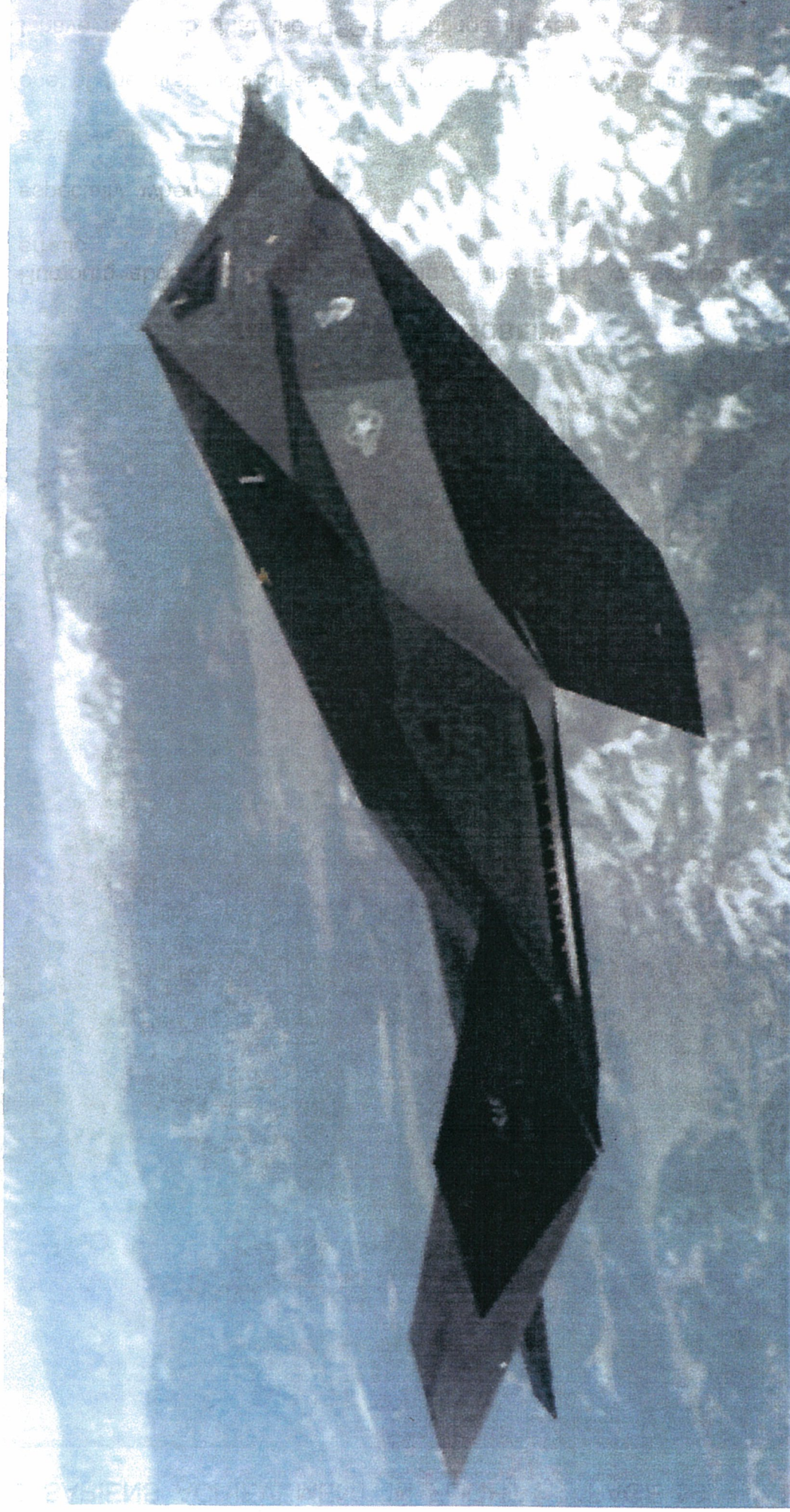
especially when refuelling

85 as a result

one of the first nicknames for the plane was the 'Wobblin' Goblin

86 I have no doubt that the UFO's sightings in New Mexico were these





The unique arrow shape of the F-117 is naturally unstable. The aircraft is kept stable by computerised fly-by-wire controls



COITUS INTERRUPTUS

- 1 Also known as the withdrawal method
- 2 COITUS INTERRUPTUS means the withdrawal of the penis from the vagina before ejaculation takes place
- 3 In other words  
the semen is not discharged in the vagina
- 4 This practice dates back from antiquity and is one of the most widely used methods of contraception all over the world
- 5 It is also mentioned in Genesis  
as being practised by Onan
- 6 Hence the name Onanism
- 7 Many Catholic writers opposed to birth control have bolstered their position by a misleading interpretation of the Biblical story of Onan
- 8 They avow that Onan was punished by God for  
"spilling his seed upon the ground"
- 9 As a matter of fact  
the Biblical story clearly indicates  
and authorities agree  
that Onan was penalised  
not because he practised withdrawal  
but because he refused to follow the tribal law and produce a child on behalf of the deceased brother
- 10 The advantages of COITUS INTERRUPTUS are its simplicity and availability at any time
- 11 It needs no preparation or appliances whatsoever and cost nothing
- 12 There is also complete contact between the male and female copulatory organs during coitus
- 13 That is what is actually missing in my life, for many years now, and I wonder how good they are with making these life size female dolls,.. because I sure need one, so that I can get some fun out of life



- 14 Its effectiveness is also fairly high
- 15 Statistics place the percentage of failures only at 3 to 13
- 16 Some authorities consider this method to be one of the most reliable methods
- barring permanent contraception like sterilisation
- and only less safe than the use of the condom or the pessary or diaphragm
- 17 The high degree of reliability of this method is not merely to be inferred from its widespread use
- 18 But also by a remarkable fact brought to light by the fertility inquiry here in England
- 19 That enquiry showed that the average number of children born to married couples who relied solely on the "Husband Careful" method
- Withdrawal was exactly the same as the average number of children born to the married couples who used all other methods of Family Planning
- 20 Its chief disadvantage is its unsatisfactoriness to the wife
- 21 As a rule
- the woman takes a longer time to reach her orgasm than a man and if the man withdraws his organ towards the end of the coital act
- the coital contact is further lessened
- 22 There is then greater chance of the woman not reaching her orgasm
- 23 Women know this, and play on it, when they are charging for sex
- take the man's money then make him discharge as quick as possible
- and then tell him that's your lot, if you got time, just drop in tomorrow for a good time - that is what you had just done - but where was the good time ?
- 24 So women think that sex and a good time, means a quick wank
- there so is something wrong with woman's sexual education
- 25 COITUS INTERRUPTUS is
- suitable only when the man has a fairly good staying power



- 26 It is distinctly contra - indicated in men who have premature ejaculation as then the withdrawal may take place too late
- 27 The method may entail great nervous strain as the man has to keep his mind on timing the withdrawal and the wife may worry whether the husband will withdraw in time
- 28 One blessing which I had, was the fact that my ex - wife saved me all that worry when I ask if she wanted it she would reply "not tonight John I am on my periods"
- 29 I can guarantee from actual experience, that it was the only 100% safe system of all contraception means available to me, and it worked
- 30 Of cause, this will naturally prevent me from enjoying sexual intercourse to the full which is the same problem today for me as I am still holding the 100 % safe contraceptive system no woman !
- 31 If the wife does not reach her orgasm she may show all the nervous and physical signs and symptoms of sexual excitement without gratification
- 32 It is possible, however with practice to make withdrawal a satisfactory method
- 33 For that kind of practice you sure need a woman who know what its for and can quickly start your training on a daily basis
- 34 That it is not so harmful or so ineffective as was once believed has been proved by statistics collected within recent years by unprejudiced observers though urologists still maintain that the practice leads to enlargement of the prostate gland
- 35 That might account for why my prostate gland enlarged so badly I thought it was due to the fact that I was not getting sex !



36 Those who hold that absorption of semen by the woman through her vagina is essential for her health will object to COITUS INTERRUPTUS on this ground

37 There is no one who now seriously contends that absorption of semen is essential for the well being of the wife

38 Most people realise that semen cannot be absorbed in the few minutes it remains in the vagina after coitus

39 In some men

the secretion seen on the glans penis during pre-coital excitement may contain live spermatozoa

40 This is a very remote possibility

41 I advise as a precautionary measure

the application of a spermicidal jelly in the vagina before coitus begins

42 If a jelly is not available

a cotton tampon soaked in any bland oil may be used

43 The contra-indications for the withdrawal method may be tabulated thus :

it is unsuitable in the case of :

(1) men with quick ejaculation

A point that has to be borne in mind is that the coital time varies even in the same man under various conditions

(2) men on whom it causes much nervous strain

(3) women who can achieve sex satisfaction only if the male organ remains in the vagina throughout the coital act

(4) women. fortunately rare

who are "satisfied" only if they feel the gush of semen in the vagina

44 A point to be borne in mind is that the ejaculated semen should not be allowed to fall on the vulva

45 It may be best received on a piece of cloth

46 Spermatozoa are active enough to travel up to the fallopian tube from the external genitals of the woman and this explains why occasionally



- a woman with an intact hymen is seen to be pregnant
- 47 Such women will swear truthfully that they had no sexual intercourse in the accepted sense of the word
- 48 Then again
- if another intercourse takes place soon after the first
- the man should
- before the second coitus
- urinate and wash the penis to remove any spermatozoa that may remain in the urethra or on the penis
- 49 That the method can be made efficacious as well as satisfactory to both partners by practice is the view expressed by many who have used it even for two decades

50 I will revert to this subject in another book

51 This much I can say

the withdrawal method with or without the cotton tampon is the most effective alternative when more reliable ones are not available

### COITUS OBSTRUCTUS

52 Also known to the ancient writers

means applying pressure by the figure at the root of the penis and thus compressing the urethra at the time of ejaculation

53 The semen will not be ejaculated outside

but will be forced back into the bladder from which it subsequently escapes during urination

54 The pressure with the figures should be sufficiently adequate and kept up till the throbbing of the penis during ejaculation completely stops

55 The advantages and disadvantages of this method

also known as coitus saxonus

are more or less the same as those of coitus interruptus

56 Of the two

the latter is to be preferred



COITUS RESERVATUS

- 57 Also known as karezza  
male continence  
and zugassent
- 58 Is coitus without seminal emission
- 59 To achieve this  
the man avoids active movements and diverts his mind by thinking of  
or discussing other subjects and problems with his wife
- 60 It is said that the penis can remain within the vagina for an hour or  
more and the woman may have many orgasms during this time
- 61 I cant support that statement  
as my problem is to get the penis into the vagina which seems to be  
an impossible task for me to do  
only then, can I prove, if or if not, it is possible for the penis to stay  
within the vagina for an hour  
that is one experiment I would be more than please to test out
- 62 In fact, if she can get it into her vagina, she will be more than  
welcome to keep it there all day, and have as many orgasms as she  
can stand
- 63 So far to date, I have found no woman who like sex  
so I take it that the Homo Sapiens female of today  
is just some kind of mutation of what use to be a woman  
she exposes no feelings for a male relationship except to mock it  
So what has happen to the female has man's pollution killed her ?
- 64 Her only interest today, is the lust for money, and not love
- 65 This method  
widely practised by the Oneida community in U.S.A.  
is difficult to practise for most men
- 66 That is precisely true - to practice you need a women - problem where  
are the women ?



- 67 The remarks on COITUS INTERRUPTUS as regards advantages and disadvantages hold good for this method as well  
except that it is satisfying to most women
- 68 In man  
the practice was once believed to cause harmful psychic and physical effects
- 69 The procedure has been exalted by certain writers as the last word in the art of love
- 70 Concerning this practice I possess clinical evidence covering thirty years in a group that grew to three hundred persons  
the young being trained in its technique by the older members
- 71 Although sex relations averaged two to three hours  
every second or third night
- 72 Yet competent medical and gynaecological examination at the end of the experiment revealed no apparent harm among this selected group of people living under favourable circumstances
- 73 The fifty - eight children conceived by parents deliberately selected present a level of health or intellect unparalleled in any group in eugenic literature
- 74 This method has its place for the occasional couple desirous of a studied elaboration of gratification
- 75 And may some day develop a wider appeal as a refinement of contraceptive method
- 76 But at present most authorities scorn it !
- 77 In communities where polygamy is common  
the method, if it can be practised  
would be very satisfactory in the sexual interests of all the wives
- 78 I have not come across a single person who has successfully adopted it
- 79 This may be due to the fact that only persons defective in virility come to me for consultation
- 80 This is just the beginning of my study, if I am going to succeed in this work - I must understand your every nut and bolt

HOLDING BACK

81 Some women seem to think that by "non - co - operating" during sexual intercourse and thus preventing themselves from getting an orgasm

they can escape conception

82 This notion is fallacious

83 Then again

by all available statistics

over 50 per cent of women do not achieve orgasm and yet the birth rate is not falling

84 Even when girls are raped

impregnation occurs

85 Holding back is not only an unreliable method but it is one of the most certain ways of disrupting marital harmony and making the husband turn to more co - operative partners

86 While COITUS INTERRUPTUS can be advocated to those who can satisfactorily adopt it

87 Holding back has to be condemned unequivocally

88 The Change of Life and Birth Control

It is a common belief that with the onset of the menopause

the woman loses her power to conceive

89 It is true that fertility is very low during the change of life

but it is not quite absent

90 Stray egg cells may be extruded by the ovaries

even without the menses and a pregnancy may result

91 Therefore, to avoid all risks of an unwanted pregnancy

it is strongly advised that birth control precautions be continued for at least one year after the last menstruation

92 After that she may consider herself safe from the risk of further pregnancy

I will end this discussion at this point and may the power be with you !



### **AGENA D SECOND STAGE**

- 1 The overall nominal thrust rating of the single Agena D rocket engine was 71,171 N = 16,000 LB in vacuum
- 2 With a normal thrust duration of 240 Sec.
- 3 The outer structure of the Agena D the airframe was a cylinder approximately 1.5 meters = 5 feet in diameter and 6.29 metres = 20.6 feet long as measured from the rearward end of the engine nozzle to the forward section of the forward equipment rack
- 4 When fuelled its weight was approximately 6,940 Kg = 15,300 LB
- 5 **Four major sections made up the Agena D second stage**
  - (1) the forward section
  - (2) the tank section
  - (3) the rearward section
  - (4) and the booster adapter section
- 6 **THE FORWARD SECTION CARRIED**

- (1) guidance
- (2) flight - control electronics
- (3) telemetry
- (4) telemetry
- (5) command
- (6) tracking
- (7) electrical power
- (8) propellant - pressurisation

### **7. THE TANK SECTION**

Stored the

(1) **fuel (unsymmetrical dimethylhydrazine)**

(2) **oxidiser (inhibited red fuming nitric acid)**

necessary for operation of the main rocket engine and also provide the support structure between the forward and rearward sections

## 8 THE REARWARD SECTION

provided for structural support and attachment of the

(1) **rocket engine assembly**

(2) **pneumatic attitude - control thrust valves**

(3) **nitrogen storage spheres**

9 Ready access to all parts of the

(1) **engine**

(2) **plumbing**

(3) **wiring**

was made possible by the rearward section open - frame design

## 10 THE BOOSTER ADAPTER SECTION

was the interconnecting structure between the Agena D second stage and the Atlas D first stage

housed within this section were

(1) **two retrorockets**

used for separation of the Atlas D from the Agena D

11 This section remained with the Atlas D upon separation of the two stages

12 The propulsion system was composed of an engine with a dual - restart capability and a propellant and pressurisation subsystem

13 The capability to restart the engine after it had already been fired once in order to reach an Earth orbital speed made possible a significant increase in payload and a change of orbital altitude

14 Propellant tanks were pressurised with helium He. 2. to insure proper propellant pump operation

15 The propellant tank and sump designs were improvements over



previous designs in that the following were provided

- (1) **improved scavenging**  
removal of burned gases from the cylinder
- (2) **containment of sufficient propellant within the tank sumps reservoirs**  
to eliminate the need for ullage rockets

16 However, since flight qualification of this feature for the Mariner - Mars 1964 missions was not possible prior to launch

17 A positive continuous ullage control system was included to insure the second Agena D start

18 Power was supplied by

- (1) **two primary batteries**
- (2) **a single phase inverter**
- (3) **a three phase inverter**
- (4) **a DC to DC converter**

19 The communications system

monitored and measured

by electrical signals

functional and environmental conditions of the Agena D

and the spacecraft

during the ascent phase to spacecraft injection

and during the Agena D retromaneuver

20 The Agena D guidance and control system served to

- (1) **maintain the Agena D at the proper attitude at all times**
- (2) **provide switch closures at the proper times to accomplish the desired sequence of events during ascent**
- (3) **provide the propulsion shut down signal after the desired velocity had been achieved**

21 Major components of the system were an

- (1) inertial reference package
- (2) a horizon sensor
- (3) a flight - control electronics unit
- (4) s hydraulic attitude - control system
- (5) a pneumatic attitude - control system
- (6) a velocity meter
- (7) two electromechanical timers

22 Error signals from the inertial reference package were applied to the flight - control electronics unit for processing and were then applied to the hydraulic and pneumatic attitude - control systems

23 Two hydraulic actuators "gimballed" the engine  
providing thrust - vector control

24 Six nitrogen - gas attitude - control jets were provided to torque the vehicle

I will break this report at this point, as I feel that too much information at one time may not be good for your health.

This is a continue story re-produced from my newsletter No. 41, issued back there in 1968 to the public.

Through these books we have covered quite a lot of ground into the problems which NASA had to solve for their Mariner - Mars 1964 project

How much of those problems which they solved, can apply to our **PROJECT WANDERER**, which could save us money, is why I am studying their achievements. Many of which will not apply to this technology, but there has to be some success which could also be applied to our project

I appreciate that the world wide web has much crap on it about Mars, and aliens activity, and that they live underground - I am at a complete lost as to why people believe such crap

I rather suspect that someone is making easy money out of fools - which again supports that old saying the fools and money are soon parted holds true

Again it supports the statement made at my first medical lesson that people believe lies before they will believe the truth - the world wide web appears to support that statement



ANSWERS TO QUESTIONS IN BOOK 11B PAGES 106 TO 111

- 
- 1     **A**     The ohm is the most often defined in terms of voltage and current

It is the amount of resistance which will allow one ampere of current to flow when one volt of emf is applied

---

- 2     **B**     Gold represents a tolerance of 5 percent

Now, 5 percent of 1,000 ohms is 50 ohms

Therefore, the value can be anywhere between 950 ohms

1,000 - 50

and 1,050 ohms

1,000 + 50

---

- 3     **C**     The larger the resistance  
the more power it can dissipate
- 

- 4     **C**     Answers A and B demonstrate a connection which should never be attempted

That is, the ohmmeter should never be connected to a circuit which has power applied

Damage to the meter may result

Answer D shows how to measure the total resistance of  $R_1$  and  $R_2$

Answer C shows the proper method of measuring  $R_1$

Notice that the meter is placed directly across  $R_1$  so that current from the meter flows through  $R_1$  only

---

- 5     **D**     Conductance is the reciprocal of resistance

Thus

$$\text{Conductance (mhos)} = \frac{1}{\text{Resistance (ohms)}}$$

Therefore, if the resistance is 20 ohms

$$\text{conductance} = \frac{1}{20}$$

## ANSWERS TO QUESTIONS IN BOOK 11B PAGES 106 TO 111

---

continue from last sheet

conductance = 0.05 mhos

---

6     **A**     The resistance of a conductor is directly proportional to its length and inversely proportional to its cross - sectional area

---

7     **C**     The resistance of any material is determined by its

(1)     length

(2)     cross - section area

(3)     resistivity

(4)     temperature

---

8     **B**     If resistance increases when temperature increases

the substances is said to have a positive temperature coefficient

---

9     **A**     The colour code indicates a 47 K ohm 5 percent resistor

Of the answers listed, only 49.3 K ohms falls within this range

---

10    **D**     Using the formula for parallel resistors

the total resistance of the three 15 ohm resistors in parallel is 5 ohms

This 5 ohms of resistance is in series with the remaining 15 ohm resistor

Thus, the total resistance is 20 ohms

---

11    **C**     Resistivity is defined as the resistance of one mil - foot wire of the substance at 20° C

---

12    **C**     The first two red bands tell us that the first two numbers are 22

The third red band tells us that the multiplier is 100

Hence the value is 22 X 100

or 2,200 ohms or 2.2 KΩ

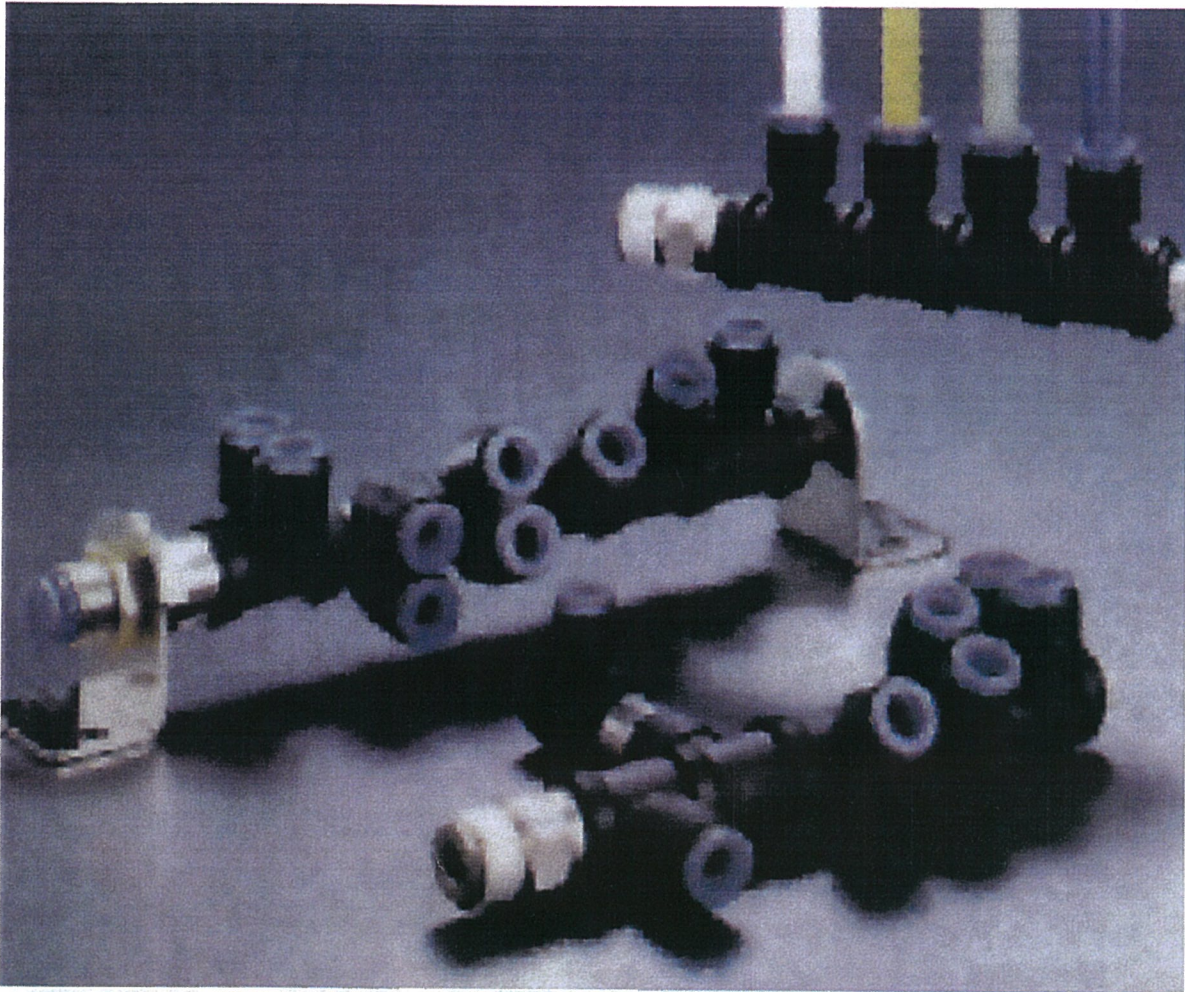
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This completes the questions in Book 11b, and I trust that you did have a go at answering them, but their main purpose is not so much for you to answer, but for you to see if I give the correct answers to those questions. Of course I have presented my answers as I gave in 1947 test.









**FITTINGS : KB MODULAR FITTING RANGE**

- 1      Totally modular manifold fitting system
- 2      Electroless nickel Ni. 28. plating as standard
- 3      Any combination can be assembled
- 4      Mounting brackets available
- 5      360° orientation of outlets
- 6      Tube sizes from 4 mm to 12 mm
- No tools required
- 7      Suitable for use in copper Cu. 29. free areas
- 8      Compact and lightweight
- 9      The full KB modular fitting system is now available from stock
- So D.I.S.C. INC. can obtain any component to test at any time
- 10    This system will allow D.I.S.C. INC. to build up of multi - way fitting



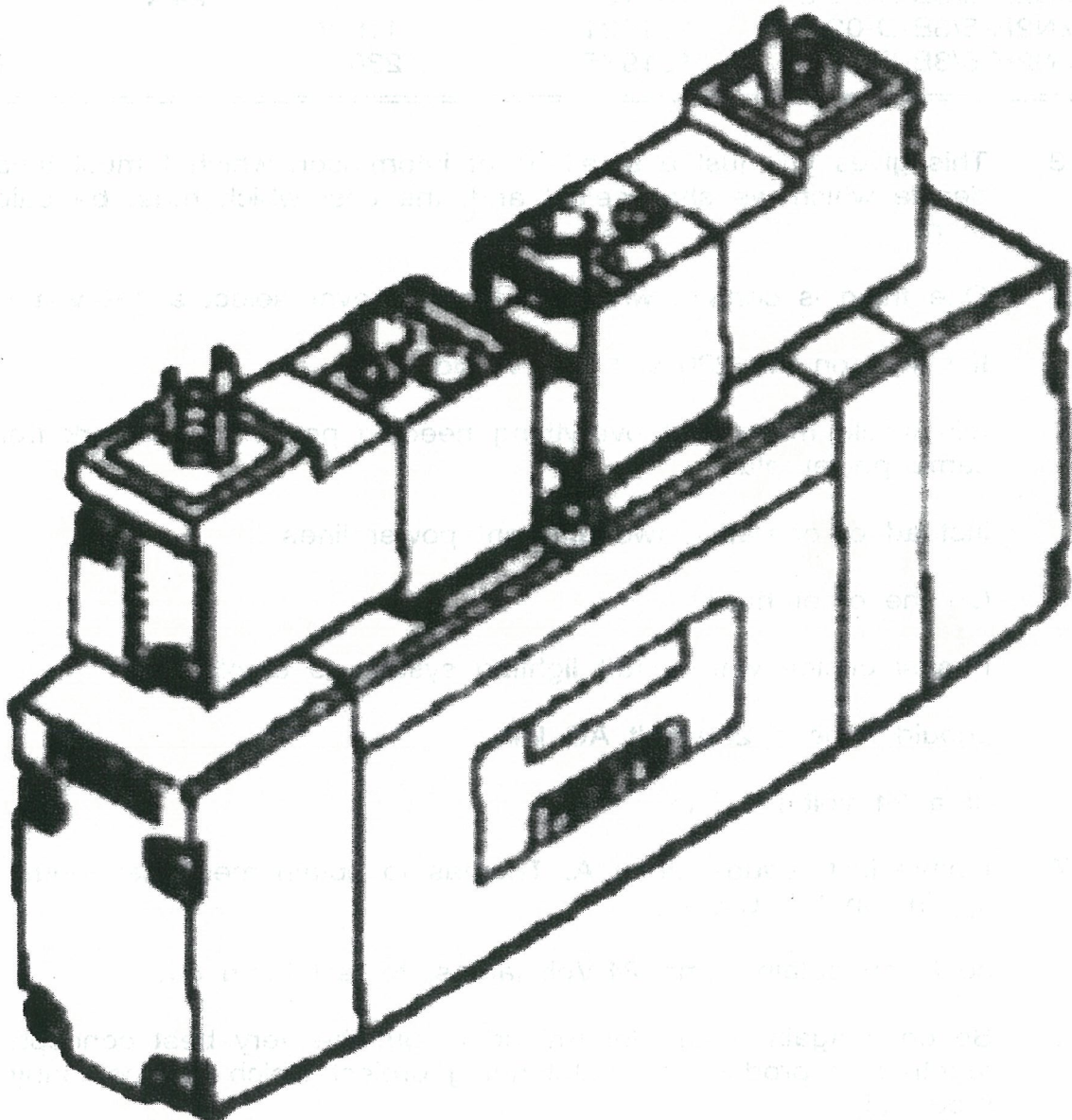
assemblies to exact requirements

without the use of tools or sealant tape

into a neat

compact and low mass assembly

- 11 Components can be swivelled through  $360^{\circ}$  for maximum flexibility  
and mounting brackets are available to secure your assembly to a convenient point
- 12 Assemblies can be modified or augmented as your requirements change



**SOLENOID VALVES**

TYPE	SOLENOID VALVES		DC	PRICE
	PART NO.	A.C.		
MN2H-5/3E-D-01-S	161905	230 V		104.31
MN2H-5/3E-D-02-S	161099		24 V	98.72
MN2H-5/3E-D-02-S	161919	110 V		102.78
MN2H-5/3E-D-02-S	161933	230 V		102.78
MN2H-5/3B-D-01	161079		24 V	97.20
MN2H-5/3B-D-01	161892	110 V		101.26
MN2H-5/3B-D-01	161906	230 V		101.26
MN2H-5/3B-D-02	161100		24 V	95.68
MN2H-5/3B-D-02	161920	110 V		99.74
MN2H-5/3B-D-02	161934	230 V		99.74
MN2H-5/3B-D-01-S	161080		24 V	100.25
MN2H-5/3B-D-01-S	161893	110 V		104.31
MN2H-5/3B-D-01-S	161907	230 V		104.31
MN2H-5/3B-B-02-S	161101		24 V	99.64
MN2H-5/3B-D-02-S	161921	110 V		102.78
MN2H-5/3B-D-02-S	161935	230 V		102.78

- 13 This gives you just a small bit of information which I must study and, decide which we shall select and, the cost which must be paid for them
- 14 One thing is certain, which is, I shall never select a 110 volt version
- 15 If I take on the 230 volt AC version
- this would mean that everything needing power could work from the same power plant
- instead of operating two different power lines
- 16 On the other hand
- I must decide which craft lighting system to employ
- should it be a 230 volt AC line
- or a 24 volt DC line
- 17 I have just request John A. Thomas to obtain me a catalogue from GE lighting in the U.S.A.
- so I can obtain some 24 Volt lamps, to test them out
- 18 So once again, I am determined to put the very best concepts together to produce an outstanding project which our company can be proud of
- I will end this discussion at this stage and hope to meet you again soon !



## OHM'S LAW

### INTRODUCTION

- 1 Ohm's Law is the most important and most basic law of electricity and electronics
- 2 It defines the relationship between the three fundamental electrical quantities

(1) **CURRENT**

(2) **VOLTAGE**

(3) **RESISTANCE**

- 3 Fortunately, for me who know absolutely nothing then only know half of that, the relationship between these three quantities is quite simple, thank heaven
- 4 My dream one predicts this law, as a fact.  
Therefore, I had no difficulty in accepting it
- 5 Several implications of this relationship I have already discussed in my previous books
- 6 Therefore, some of the information presented in this book and future books will not be entirely new to you

### UNIT OBJECTIVES

- 7 When you have completed this unit, you will be able to :
  - (1) State Ohm's Law
  - (2) Write the three equation forms of Ohm's Law
  - (3) Define power and watt
  - (4) Write three equations for determining the power dissipated in a circuit
  - (5) Given a list of appropriate equations

select the proper equation and calculate the current in any simple circuit in which two of the following quantities are known

(1) **power**

(2) **resistance**

(3) **voltage**

8 Given a list of appropriate equations

select the proper equation and calculate the voltage in any simple circuit in which two of the following quantities are known

(1) **current**

(2) **power**

(3) **resistance**

9 Given a list of appropriate equations

select the proper equation and calculate the resistance of any simple circuit in which two of the following quantities are known

(1) **current**

(2) **voltage**

(3) **power**

10 Given a list of appropriate equations

select the proper equation and calculate the power in any simple circuit in which two of the following quantities are known

(1) **current**

(2) **voltage**

(3) **resistance**

11 Demonstrate how a voltmeter can be used to indicate current

### **OHM'S LAW**

12 Ohm's Law defines the way in which

(1) **current**

(2) **voltage**

(3) **resistance**

are related

13 I have examined this relationship to some extent in my previous books

14 Now, let me examine it more closely and in a systematic way



**DETERMINING CURRENT**

15 Ohm's Law states that current is directly proportional to voltage and inversely proportional to resistance

16 Figure 1, will help illustrate this point

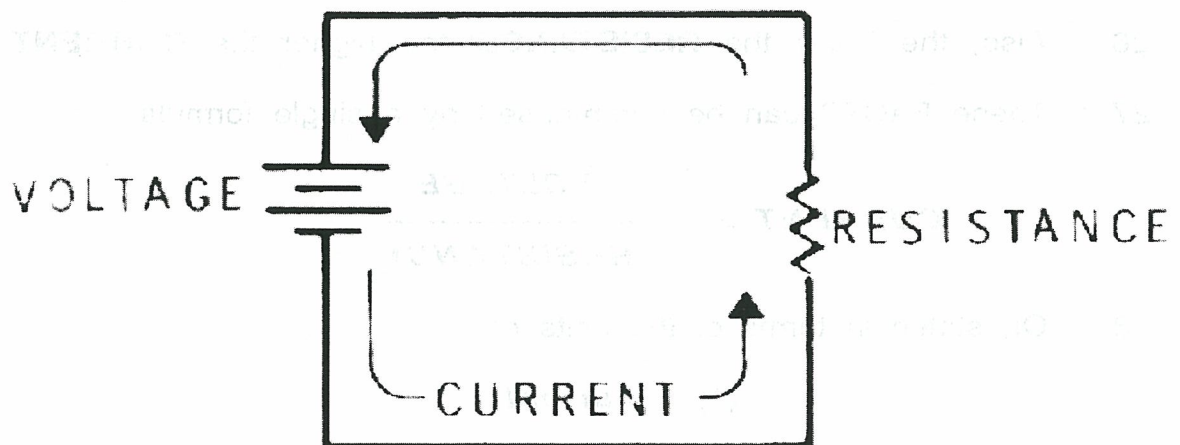


FIGURE 1

17 The **SOURCE** of **VOLTAGE** is the **battery**

18 **Voltage** is the **force** which causes **current** to flow

19 Therefore, the higher the **VOLTAGE**

the higher the **CURRENT** will be

20 Conversely, the lower the **VOLTAGE**

the lower the **CURRENT** will be

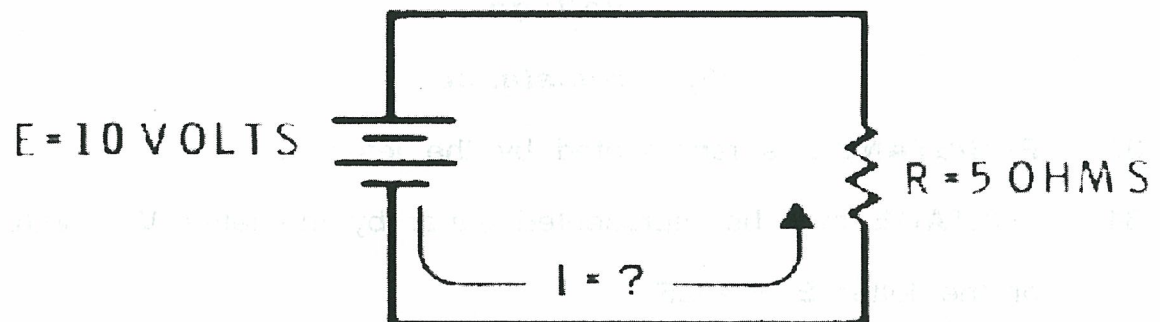


FIGURE 2

21 This assumes that the **RESISTANCE** remains constant

22 However, as I have shown

the **CURRENT** is also determined by the **RESISTANCE**

23 **RESISTANCE** is the opposition to **CURRENT** flow

24 Assuming that the **VOLTAGE** is constant

25 The higher the **RESISTANCE**  
the lower the **CURRENT** will be

26 Also, the lower the **RESISTANCE** the higher the **CURRENT** will be

27 These **FACTS** can be summarised by a single formula

$$\text{CURRENT} = \frac{\text{VOLTAGE}}{\text{RESISTANCE}}$$

28 Or, stated in terms of the units of

(1) *current*

(2) *voltage*

(3) **RESISTANCE**

$$\text{AMPERES} = \frac{\text{VOLTS}}{\text{OHMS}}$$

29 When used in formulas

single letters of the alphabet are used to represent

(1) *current*

(2) *voltage*

(3) *resistance*

30 **RESISTANCE** is represented by the letter **R**

31 **VOLTAGE** may be represented either by the letter **V = VOLTAGE**  
or the letter **E = EMF**

32 In this study I will use the letter **E** to represent **EMF** or **VOLTAGE**

33 **CURRENT** is represented by the letter **I**

34 While this may seem a little illogical  
this convention is used throughout electronics



35 If I substitute the letters **I**, **E**, and **R** for the quantities

(1) **CURRENT**

(2) **VOLTAGE**

(3) **RESISTANCE**

respectively

36 The formula for **CURRENT** becomes

$$I = \frac{E}{R}$$

37 This formula may be used for find **CURRENT** in any circuit in which the **VOLTAGE** and **RESISTANCE** is known

38 FIGURE 2, shows a circuit in which the values of **VOLTAGE** and **RESISTANCE** are given

39 To determine the **CURRENT** I merely substitute the known values into the formula

$$I = \frac{E}{R}$$

$$I = \frac{10 \text{ VOLTS}}{5 \text{ OHMS}}$$

$$I = 2 \text{ AMPERES}$$

40 **NOTICE** that I simply divided 5 into 10 and received a final answer of 2

41 Anytime that I divide **OHMS** into **VOLTS** the answer is expressed in **AMPERES**

42 Thus, the **CURRENT** in the circuit shown in FIGURE 2 is 2 **AMPERES**

43 Let's look at another example

Figure 3, which shows another circuit in which the value of **E** and **R** are given

44 Solving for **I**

I find that the **CURRENT** is

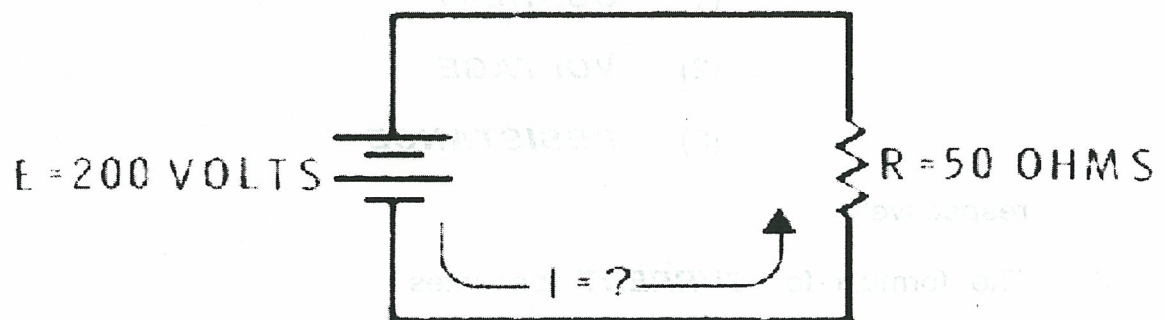


FIGURE 3.

$$I = \frac{E}{R}$$

$$I = \frac{200 \text{ VOLTS}}{50 \text{ OHMS}}$$

$$I = 4 \text{ AMPERES}$$

45 Let's see what happens to the **CURRENT**

If I double the applied **VOLTAGE** as shown in FIGURE 4

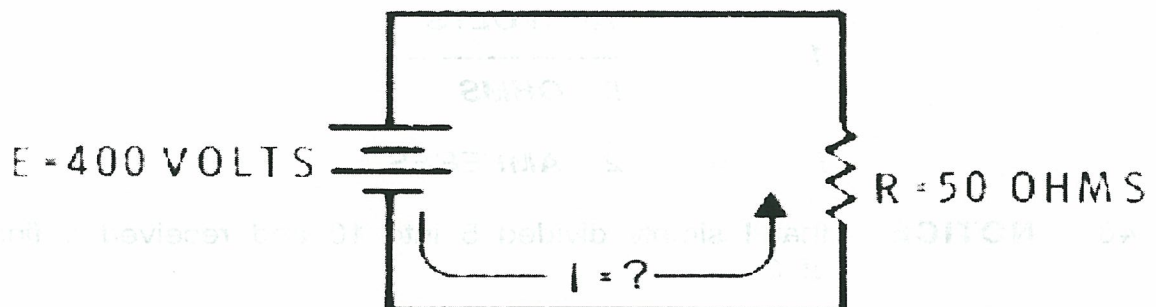


FIGURE 4.

$$I = \frac{E}{R}$$

$$I = \frac{400 \text{ VOLTS}}{50 \text{ OHMS}}$$

$$I = 8 \text{ AMPERES}$$

46 **NOTICE** that when the **VOLTAGE** is doubled



the **CURRENT** also doubles

47 I expect this because **CURRENT** is directly proportional to **VOLTAGE**

48 Now, let's return to Figure 3.

49 What happens if I double the **RESISTANCE** and hold the **VOLTAGE** constant ?

45 This situation is shown in Figure 4

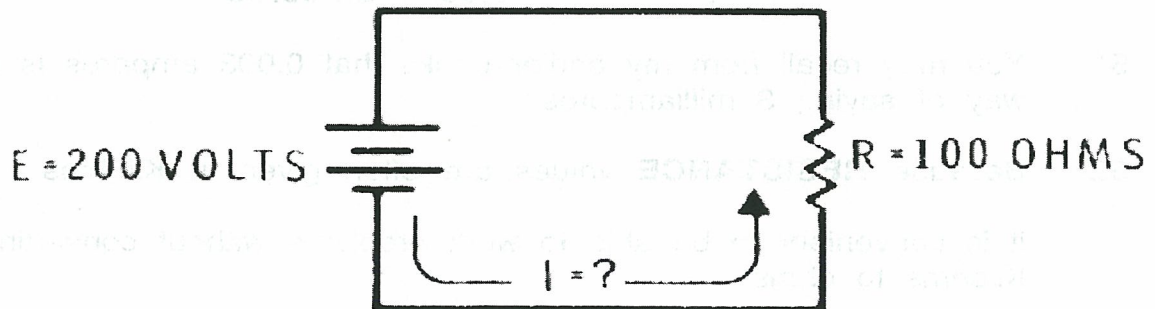


FIGURE 5.

the **CURRENT** becomes

$$I = \frac{E}{R}$$

$$I = \frac{200 \text{ VOLTS}}{100 \text{ OHMS}}$$

$$I = 2 \text{ AMPERES}$$

46 Thus, when I double the **RESISTANCE**

the **CURRENT** is reduced to one - half its former value

47 I expect this since **CURRENT** is *inversely proportional* to **RESISTANCE**

48 Let's consider another example

How much **CURRENT** flows through a 3 K ohm **RESISTOR** when it is connected across a 9 volt battery ?

49 The easiest way to solve this problem is to convert 3 K ohms to Ohms

$$3 \times 1,000 = 3,000 \text{ ohms}$$

50 Thus :

$$I = \frac{E}{R}$$

$$I = \frac{9 \text{ VOLTS}}{3000 \text{ OHMS}}$$

$$\frac{0.003 \text{ amperes}}{3000} = 9.000$$

$$I = 0.003 \text{ amperes}$$

51 You may recall from my earlier books that 0.003 amperes is another way of saying 3 milliamperes

52 Because **RESISTANCE** values are often given in Kilohms it is convenient to be able to work problems without converting Kilohms to ohms

53 In **CURRENT** problems when **VOLTS** are divided by **kilohms** the result is expressed in milliamperes

54 For example

how much **CURRENT** flows when a lamp with a **RESISTANCE** of 2.4 Kilohms is connected across a 120 Volt line ?

55 The **CURRENT** in milliamperes is

$$I = \frac{E}{R}$$

$$I = \frac{120 \text{ VOLTS}}{2.4 \text{ K OHMS}}$$

$$I = 50 \text{ MILLIAMPERES}$$

$$\frac{50 \text{ milliamperes}}{24} = 1200$$

56 I can check this by converting 2.4 Kilohms to ohms and solving as I did earlier

$$2.4 \times 1000 = 2400 \text{ ohms}$$



$$I = \frac{E}{R}$$

$$I = \frac{120 \text{ VOLTS}}{2400 \text{ OHMS}}$$

$$\begin{array}{r} 0.05 \\ 2400 \overline{)120 \ 00} \end{array}$$

$$I = 0.05 \text{ AMPERES}$$

57 You hopefully recall that I have stated that 0.05 amperes is the same as 50 milliamperes

58 **RESISTANCE** is often given in megohms

59 For example

what is the **CURRENT** when a 5 Megohm **RESISTOR** is connected across a 25 volt battery ?

60 I can convert 5 megohms to ohms and solve for **CURRENT** in amperes

$$5 \times 1,000,000 = 5,000,000 \text{ ohms}$$

$$I = \frac{E}{R}$$

$$I = \frac{25 \text{ VOLTS}}{5,000,000 \text{ OHMS}}$$

$$\begin{array}{r} 00.000005 \text{ amperes} \\ 5,000,000 \overline{)25.00000} \end{array}$$

$$I = 0.000,005 \text{ amperes}$$

61 This is 5 microamperes

62 Thus, when we divide **VOLTS** by megohms the answer is in microamperes

63 That is

$$I = \frac{E}{R}$$

$$I = \frac{25 \text{ VOLTS}}{5 \text{ MEGOHMS}}$$

$$I = 5 \mu \text{ amps}$$

64 To summarise

the basic formula for **CURRENT** IS

$$I = \frac{E}{R}$$

65 If **R** is given in ohms

I can think of the equation as

$$\text{AMPERES} = \frac{\text{VOLTS}}{\text{OHMS}}$$

66 However, if **R** is given in Kilohms

I can think of the equation as

$$\text{MILLIAMPERES} = \frac{\text{VOLTS}}{\text{KILOHMS}}$$

67 Finally, if **R** is given in megohms

I can think of the equation as

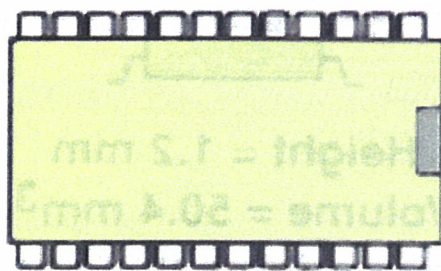
$$\text{MICROAMPERES} = \frac{\text{VOLTS}}{\text{MEGOHMS}}$$

I will break this discussion upon my earlier life, as a young man with no friends - and certainly no girl friends either.

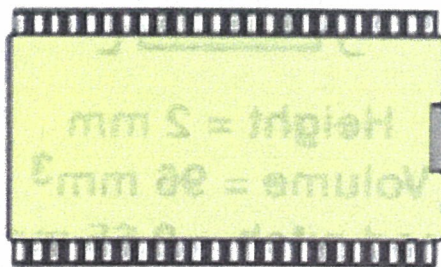
I had been living in digs as we called them - which was no different then I am doing now - I live here as a border - nothing more than that - so writing these books, are my only pleasure that I really have - as I cannot afford any pleasure outlets - for without money you are either a prisoner within walls, or a tramp, who are kept outside of walls. I am sitting just inside the walls - but the future could mean, that I will be on the outside of the walls, if things get worst then they are now

I hope that this discussion have been interesting, and that you have found the layout easy to follow - of cause its extremely elementary but then I was just a boy of 15 years

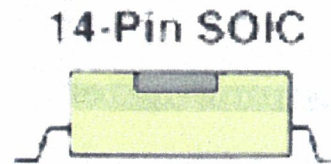


ADVANCED PACKAGING

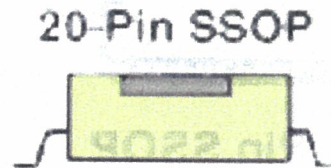
**14-Pin SOIC**  
**Area = 51 mm<sup>2</sup>**



**20-Pin SSOP**  
**Area = 56 mm<sup>2</sup>**



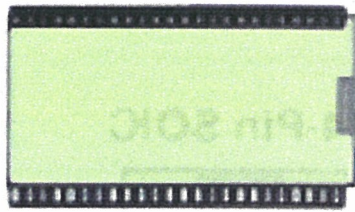
**14-Pin SOIC**  
**Height = 1.75mm**  
**Volume = 89.25 mm<sup>3</sup>**  
**Lead pitch = 1.27 mm**



**20-Pin SSOP**  
**Height = 2 mm**  
**Volume = 112 mm<sup>3</sup>**  
**Lead pitch = 0.635 mm**

**FIGURE 1. AHC PACKAGES**

- 1 Figure 1, and 2, shows a comparison of packages in which AHC devices are available
- 2 For ease of analysis  
 14 pin packages and 20 pin packages are included
- 3 Figure 3, is not an all - inclusive list of pin counts and corresponding packages  
 e.g., the TSSOP package is available in both 14 pin and 20 pin format
- 4 The TVSOP package  
 which has a lead pitch of 0.4 mm (16 mil)  
 and a device height of 1.2 mm
- 5 It is also available in the AHC family
- 6 Continued advancements in packaging are making more functionality possible with smaller space requirements



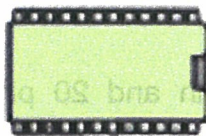
**20-Pin TSSOP**  
Area = 42 mm<sup>2</sup>



**14-Pin SSOP**  
Area = 48 mm<sup>2</sup>



**14-Pin TSSOP**  
Area = 32 mm<sup>2</sup>



**14-Pin TVSOP**  
Area = 23 mm<sup>2</sup>

**20-Pin TSSOP**



Height = 1.2 mm  
Volume = 50.4 mm<sup>3</sup>  
Lead pitch = 0.65 mm

**14-Pin SSOP**



Height = 2 mm  
Volume = 96 mm<sup>3</sup>  
Lead pitch = 0.65 mm

**14-Pin TSSOP**



Height = 1.2 mm  
Volume = 38.4 mm<sup>3</sup>  
Lead pitch = 0.65 mm

**14-Pin TVSSOP**



Height = 1.2 mm  
Volume = 27.6 mm<sup>3</sup>  
Lead pitch = 0.4 mm

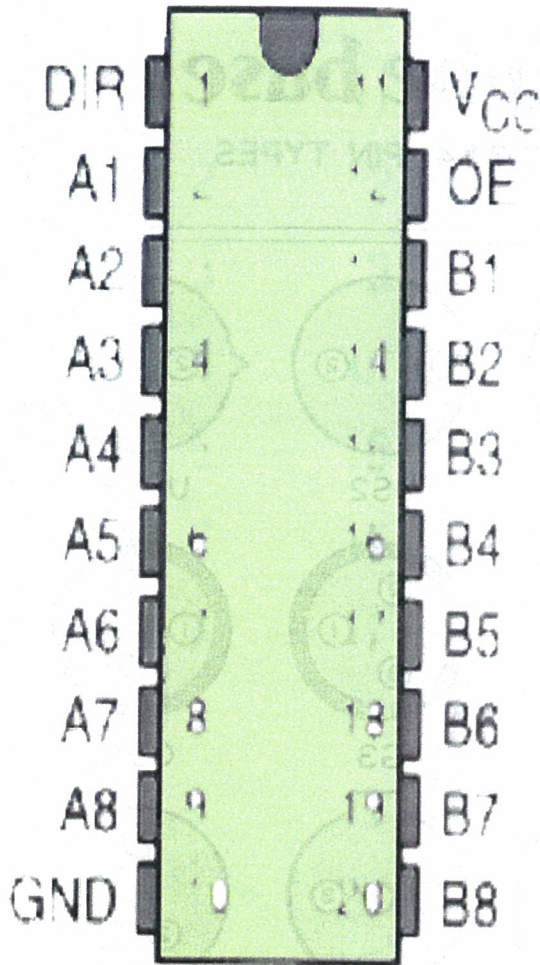
**FIGURE 2. AHC PACKAGES**

7 Figure 3 shows a typical pin out structure for the 20 pin SSOP for the SN74AHC245

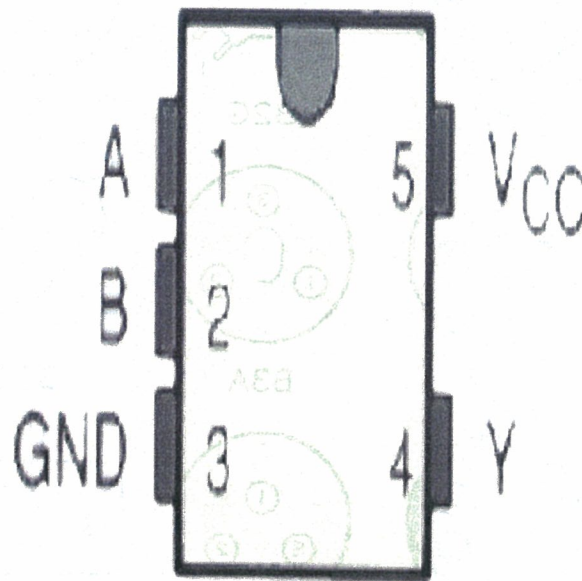
8 This provides for simultaneous switching improvements

9 Yes, the world which I knew has changed completely -IMPOSSIBLE





**FIGURE 3**  
**SN74AHC245 PIN OUT**



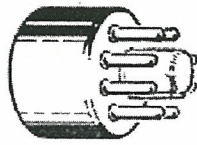
**FIGURE 4**  
**5 PIN MICROGATE**  
**LOGIC PIN OUT**

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yet they are POSSIBLE today - they are here to prove it

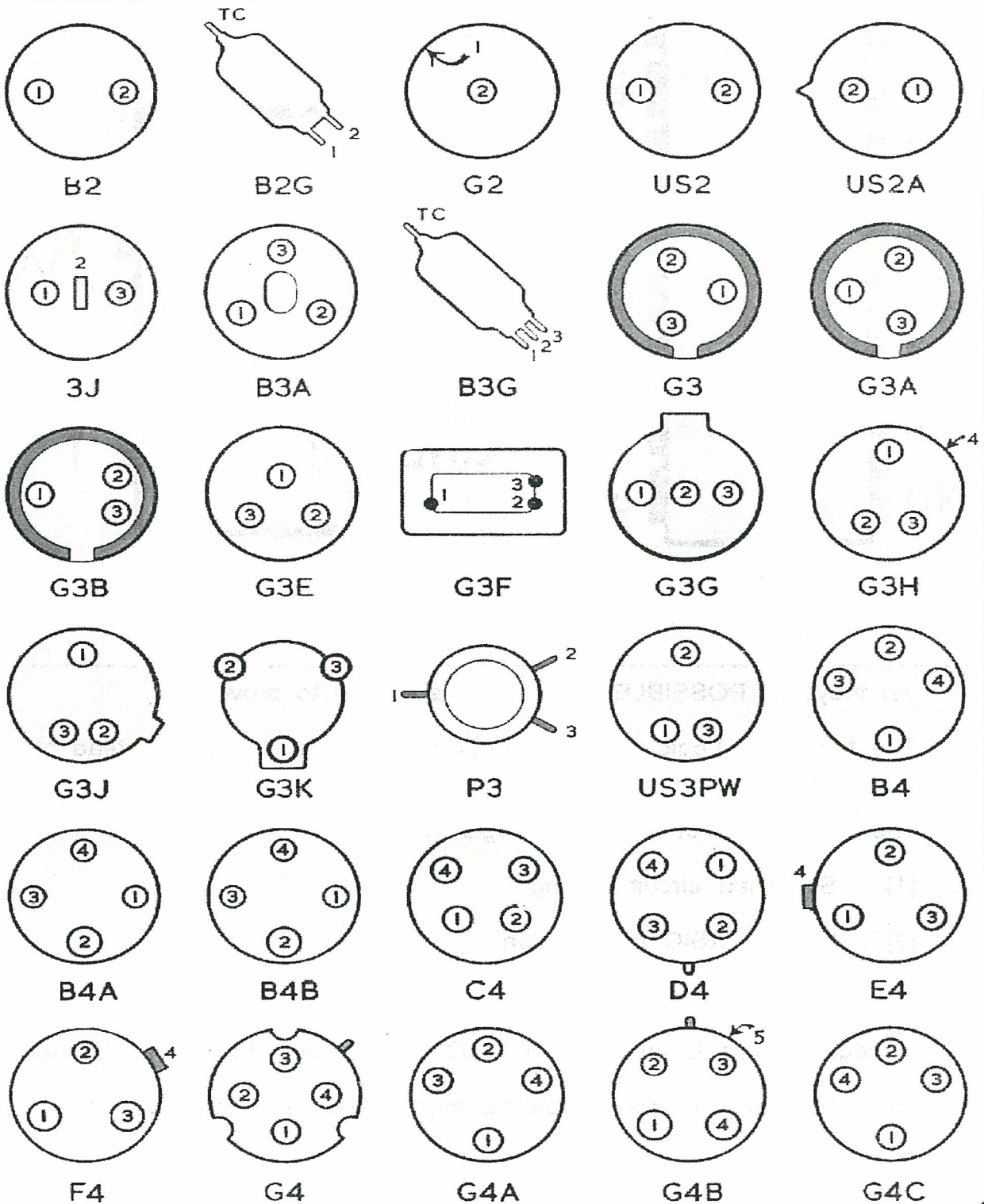
- 10 The Microgate Logic device is a single gate that is used instead of the two, four, or six gate versions
- 11 The advantages of Microgate Logic are
  - (1) Simplified circuit routing
  - (2) Help in ASIC modification
  - (3) 3.5 ns typical propagation delay
- 12 Microgate Logic is available in CMOS (AHC) and TTL (AHCT) versions
- 13 The AHC versions are compatible with Toshiba's TC7SHxx series
- 14 Figure 4 shows the pin out of the SN74AHC1G00

I will end this discussion at this point - I trust you have found it interesting

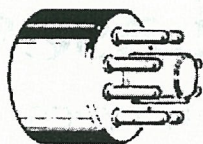


# Tube bases

2,3&4 - PIN TYPES

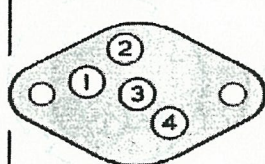




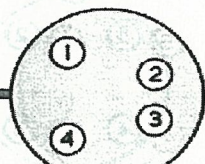


# Tube bases

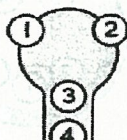
4 & 5 - PIN TYPES



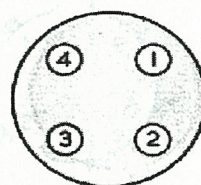
G4D



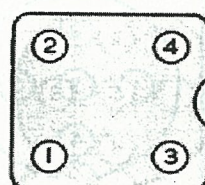
G4F



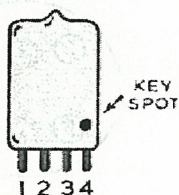
H4



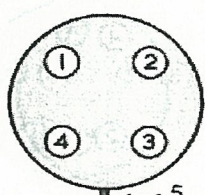
J4



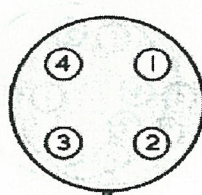
L4



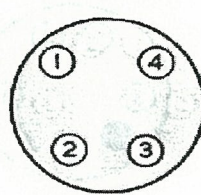
M4



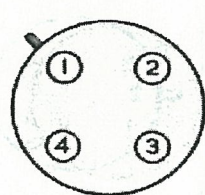
P4



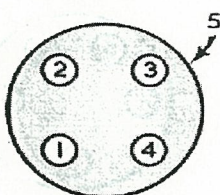
T4



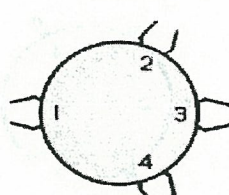
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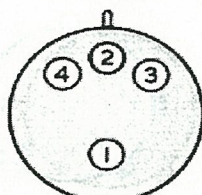
BB4



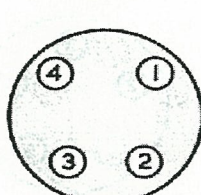
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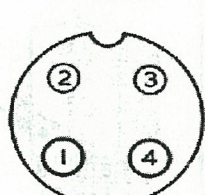
CO4



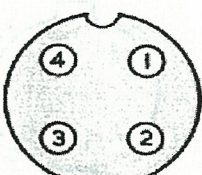
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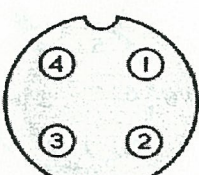
SJ4



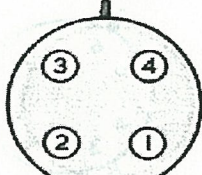
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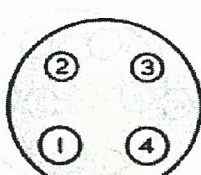
ST4



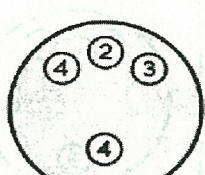
US4E



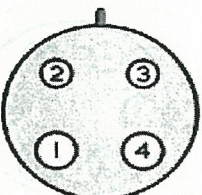
US4N



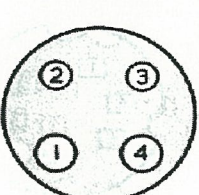
USM4



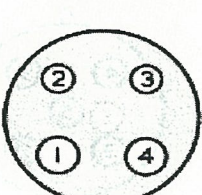
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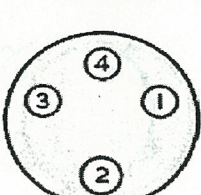
USM4B



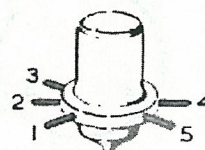
USS4



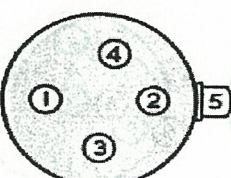
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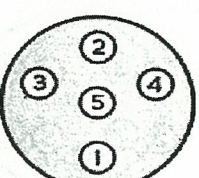
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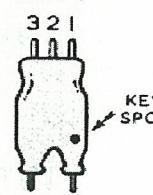
5AA



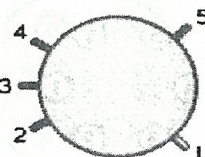
A5B



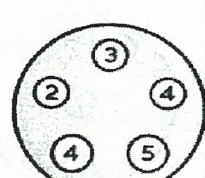
B5



B5A



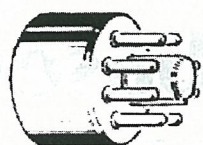
B5B



B5C

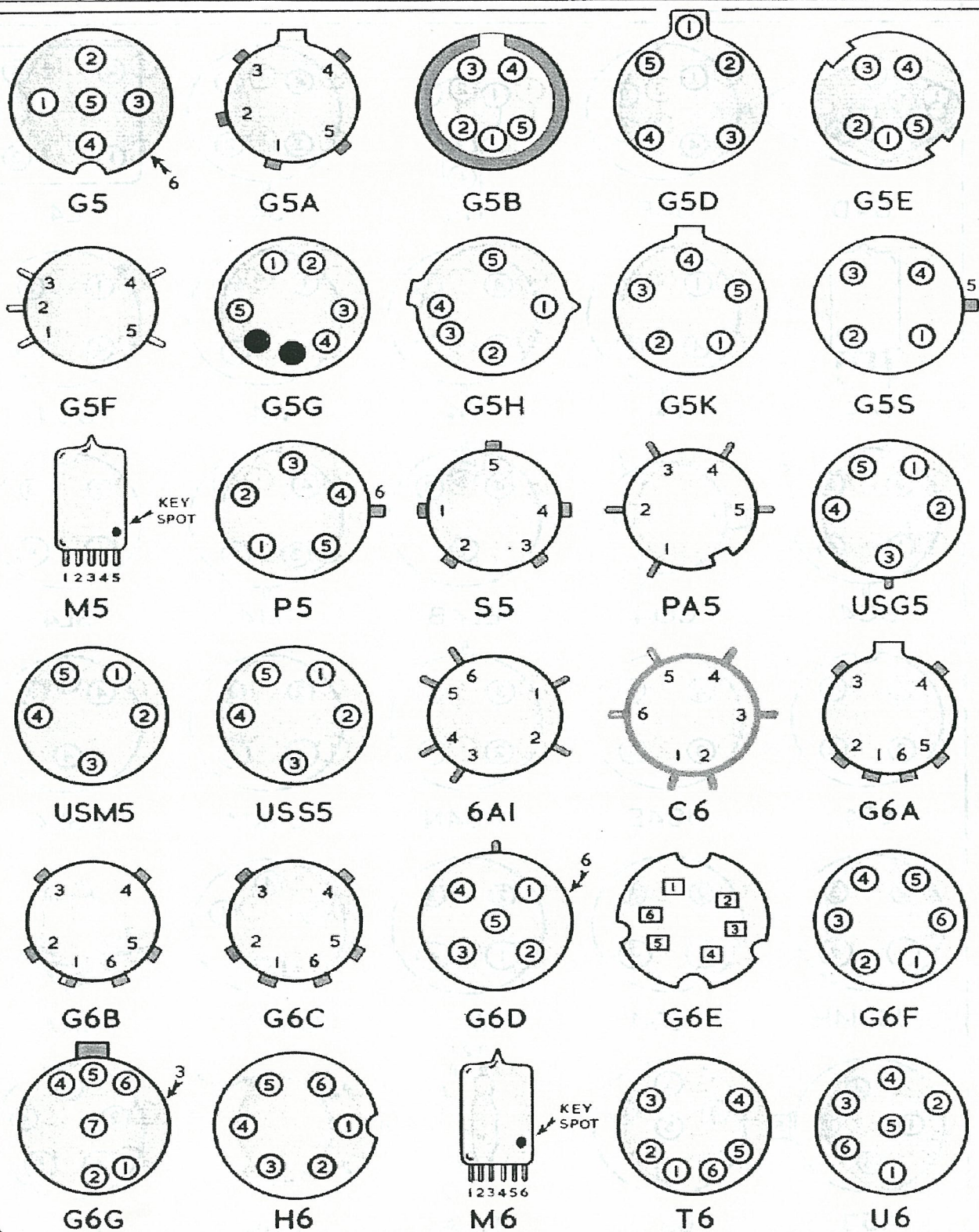
THIS WAS MY WORLD OF 1952



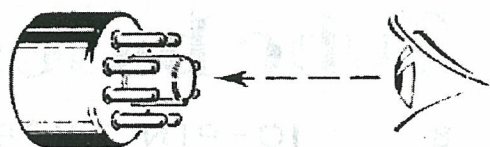


# Tube bases

5 & 6 PIN TYPES

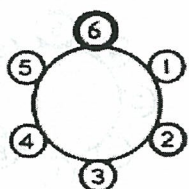




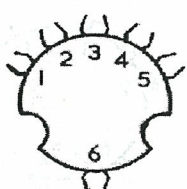


# Tube bases

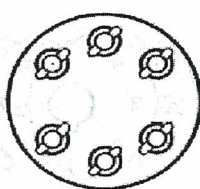
6 & 7 PIN TYPES



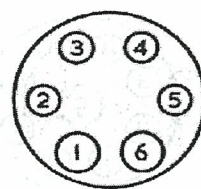
U6A



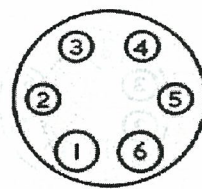
CL6



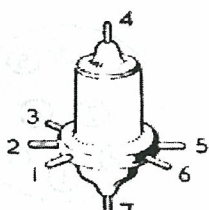
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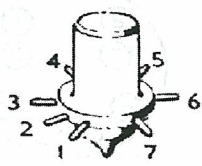
USM6



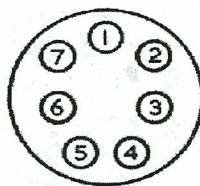
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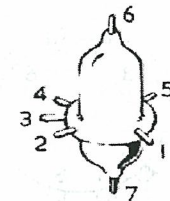
7AA



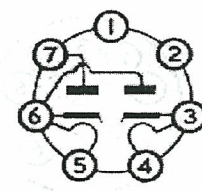
7AB



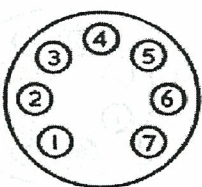
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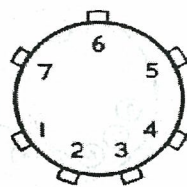
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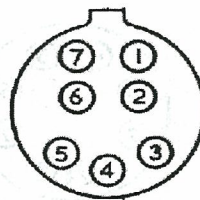
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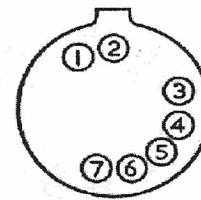
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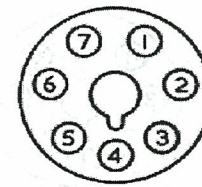
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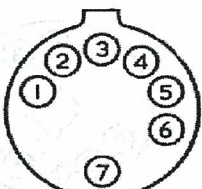
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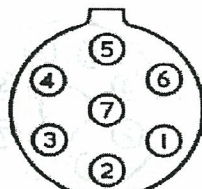
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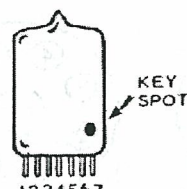
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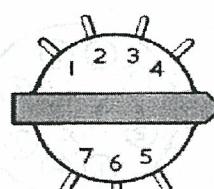
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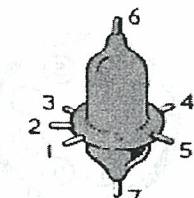
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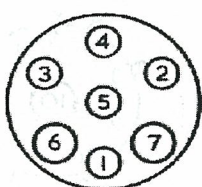
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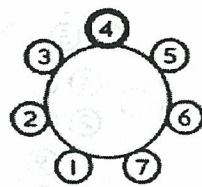
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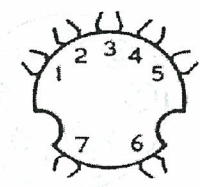
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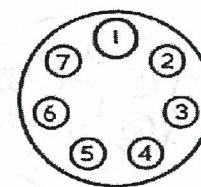
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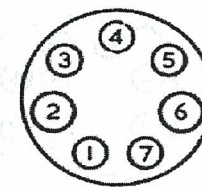
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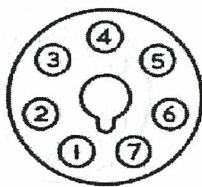
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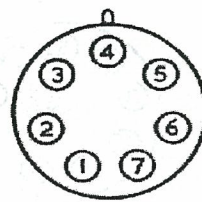
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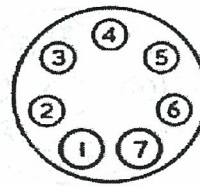
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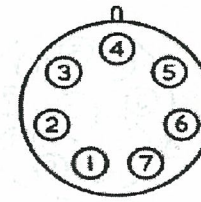
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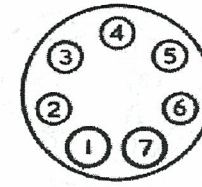
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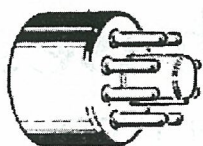
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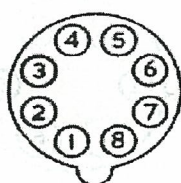


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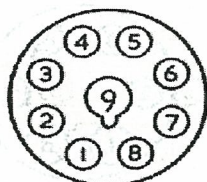


# Tube bases

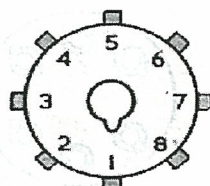
8, 9 & 10-PIN TYPES



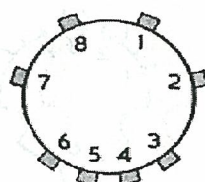
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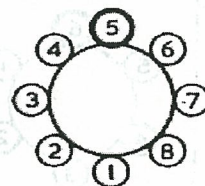
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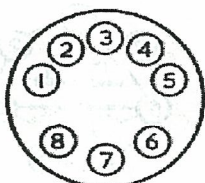
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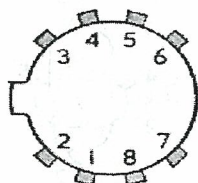
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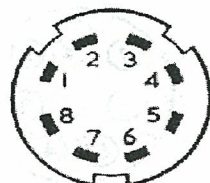
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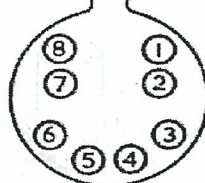
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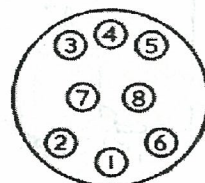
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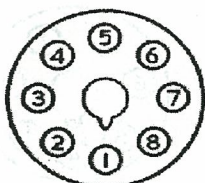
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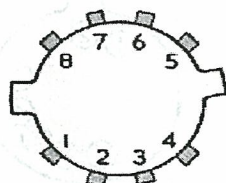
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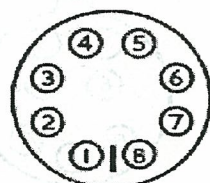
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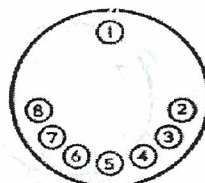
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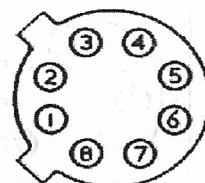
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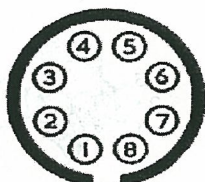
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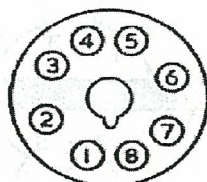
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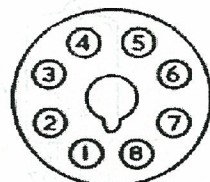
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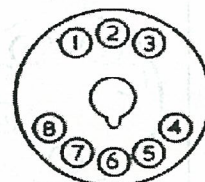
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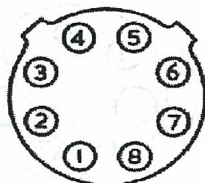
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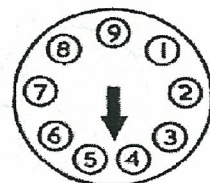
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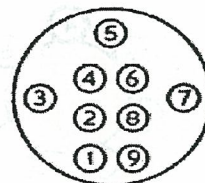
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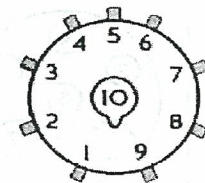
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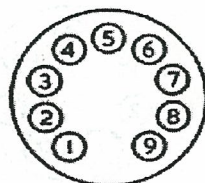
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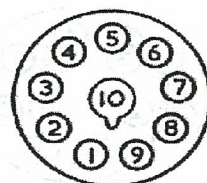
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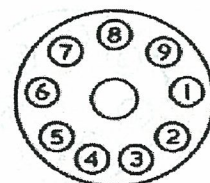
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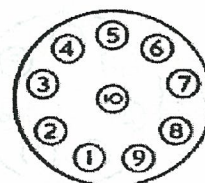
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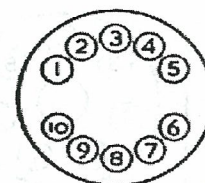
U9 &amp; B9G



FM9

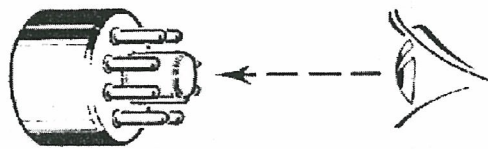


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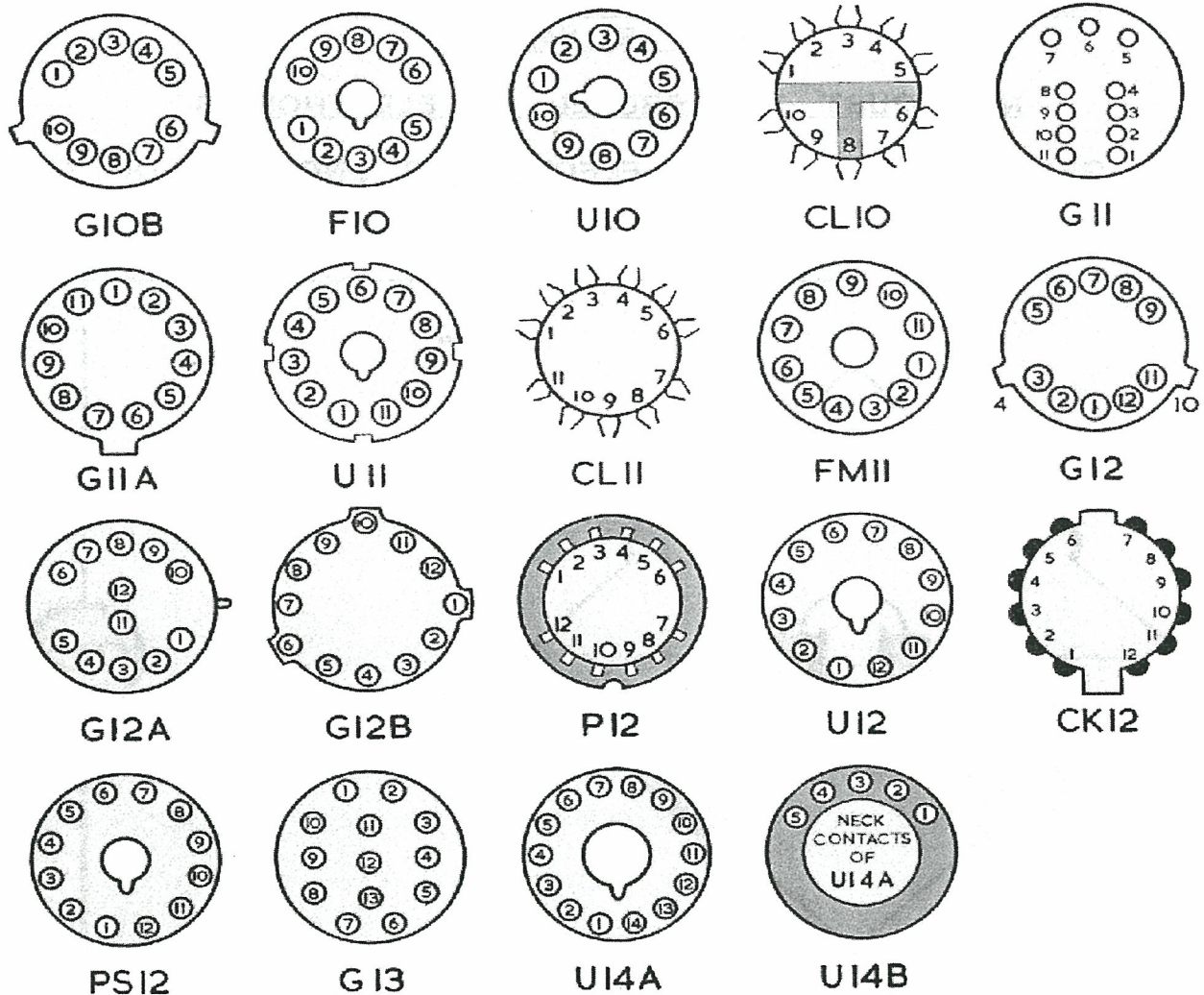
GIOA





# Tube bases

10,11,12,13 & 14-PIN TYPES



**THIS WAS MY WORLD OF 1952**

- 1 These are the tube bases which I knew and used during the period of 1952 right through to 1972
  - 2 Demo. 1, used 1,000 B8G bases to carry the 1,000 bottles
  - 3 Though Starship Explorer may not use even one of them
- we must still, at this stage of study, consider that there is a possibility that we might turn again to tubes for certain tasks
- 4 I have still many things to consider before I can finally confirm that these are the parts we shall use.

THE SEG AND IGVsREQUIRED INVENTORS

WITHOUT THEM THE IGV AND SEG COULD NOT HAD BEEN POSSIBLE

ONE OF THOSE GREAT INVENTORS TO MY MIND WAS BLUMLEIN

NO DOUBT THE BRUNEL OF ELECTRONICS

ONE OF THE MOST GIFTED ELECTRONICS ENGINEER OF THIS CENTURY

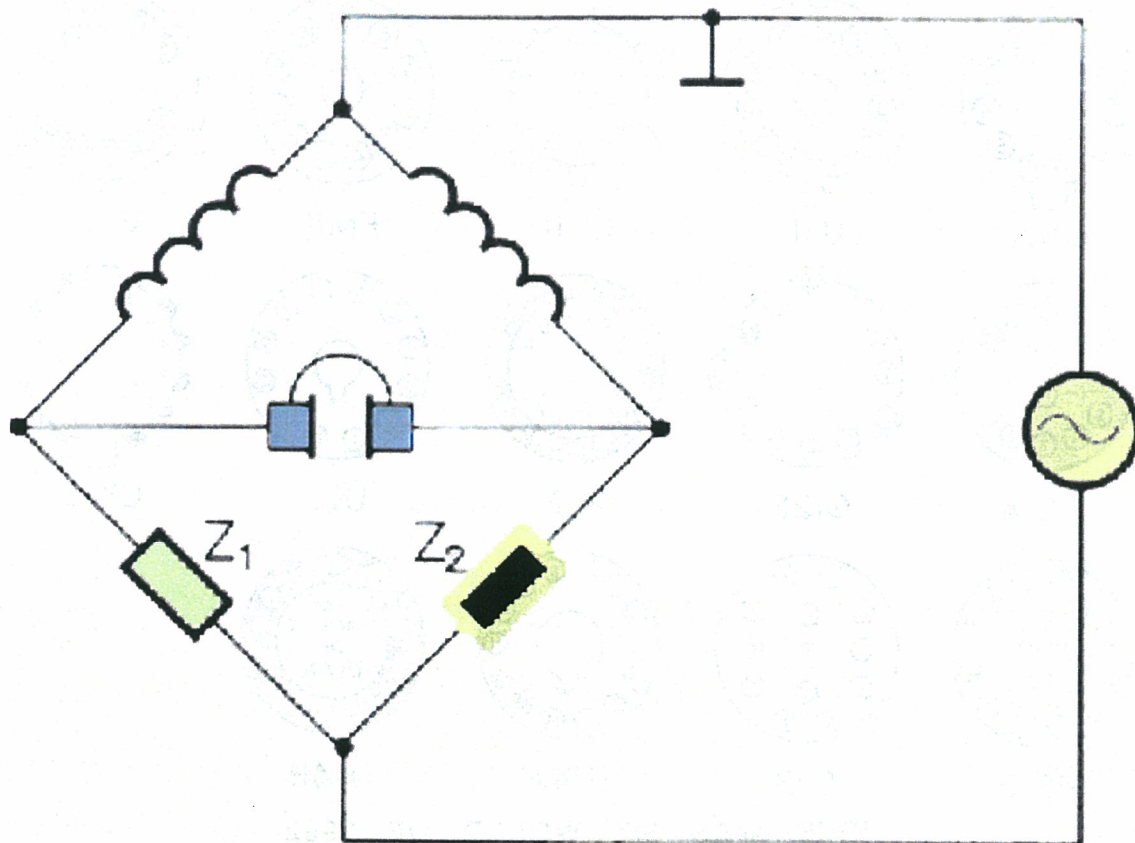


FIGURE 1.

The Bifilar wound, Inductive Ratio - Arm Bridge circuit of 1928

Strange just 4 years before I was born

- 1 Someone once remarked of the Cromellian admiral Robert Blake that it was astonishing that so little was known about so able a man
- 2 That's nothing, what about John Searl, so little is known about him except that he knows absolutely nothing, and worse of all, he only knows half of that., that is quite astonishing also
- 3 The same could be said of Alan Dower Blumlein



4 I'm was reminded of him every time I visited Cornwall

that land beyond England

5 To get there

you've to cross the river Tamar by a magnificent monument to  
Victorian engineering panache

on whose archway is stamped

'I. K. Brunel : Engineer'

6 What a marvellous tribute

7 It says all there is to say really

Let the man's achievements speak for him

8 Something similar needs to be done for Blumlein

9 Both men had a great deal in common

10 Brunel for example was only 24 when

in 1829, his first design appeared

a proposal for bridging the river Avon

11 By contrast

Blumlein was 25 when

in 1928, his first invention appeared

12 This was the Bifilar wound, Inductive Ratio-Arm Bridge circuit  
shown in Figure 1.

13 Like Brunel too

Blumlein had an excellent grounding in maths and both men carefully  
analysed their designs and ideas before even attempting construction

14 Funny really, because that is precisely what John Searl has been  
telling members of D.I.S.C. INC.

15 But no, he cannot get that through their thick heads - they think that all  
you have to do is bang the mixture together - before we check out the  
requirements by maths of what each material is able to achieve

so we still have not got the S.E.G. and never will have until the maths

have been fully worked out

- 16 All the products which has been made in the last 5 years have failed because no one wanted to do the work through me, as it should be done. Everyone is rushing of to be first - instead they will never do it

- 17 When, for example,

Blumlein designed a circuit he worked out the

- (1) impedance's
- (2) gains per stage
- (3) the pulse widths
- (4) shapes and the frequency response

- 18 Brunel's approach to his discipline was virtually identical

- 19 His second design for the Avon Gorge Bridge

the one that speaks so eloquently on his behalf to this day

was, in the view of the selection committee

the most mathematically accurate of all the designs submitted

- 20 And the opposition was formidable

it included designs from the other leading engineers of the day such as Thomas Telford

- 21 From docks and railways, tunnels and cuttings to bridges and cargo ships

Brunel left an indelible mark on the mechanical and civil disciplines within the engineering profession

- 22 Blumlein was no less versatile and wide - ranging in his achievements

leaving a lasting mark on the Radar and communications disciplines as well as on circuit design generally

- 23 For sound recording and reproduction to antennas and cables, television and telephony by way of electrical measurement

he left a body of work that astonishes to this day

more than half a century after his death

- 24 Strange that so far in my search for the truth the name TESLA has



never appeared, not even once.

- 25 Yet many phone calls and mail from members of the Tesla Society have informed me of the great achievements of this man called Tesla

I am sad to have to state, that 90 % of those claims, I have trashed as bull shit by which these members con the public for personal gains

- 26 From the evidence before me, I must accept that any information from the Tesla Society members as claims, cannot be accepted as fact

- 27 Therefore, as an individual, I wish not to be a member of that said society, as I represent the TRUTH and nothing but the TRUTH - bullshit I am not interested in

- 28 Two other startling originality

secondly the ability to pump new life into old ideas and techniques

- 29 Brunel's 'Great Western'

for example

was the first large steam - powered cargo carrier to operate on the Atlantic route

- 30 It was also timber - built

indeed probably the apogee of ship design using wood

- 31 Twenty years later his 'Great Eastern' was the first large vessel constructed with a double hull

- 32 Its size stunned even the Victorians

who by no means thought small

and nothing remotely like it was built for another 40 years !

- 33 When, two years after the 'Great Eastern'

Brunel designed the Maidenhead Bridge its major feature was its flat arch

the flattest such brick structures in the world at that time

- 34 Yet the principles underlying it and the materials employed had been common practice for centuries

and that statement also applies to John Searl's technology, the S.E.G and IGV

35 By contrast

in 1938, which of course is 6 years after my birth

Blumlein filed a patent relating to his research into the field produced by a current flowing in a linear, slotted, hollow conductor

36 This would later

some time later in fact

be recognised as one of the most important pieces of research on antennas carried out in the 1930s

37 It would lead to the Resonant Slot antenna

long used in the World's VHF Omnirange (VOR) equipment for civil air navigation

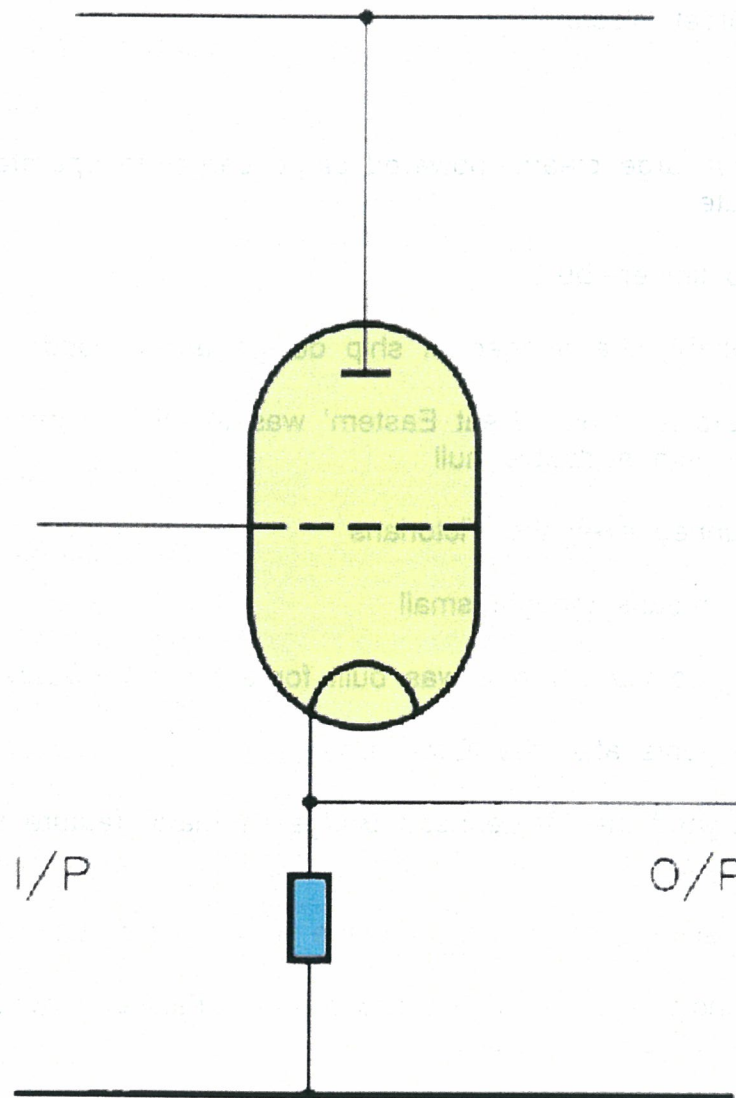


FIGURE 2

The cathode Follower circuit, long familiar to communications engineers



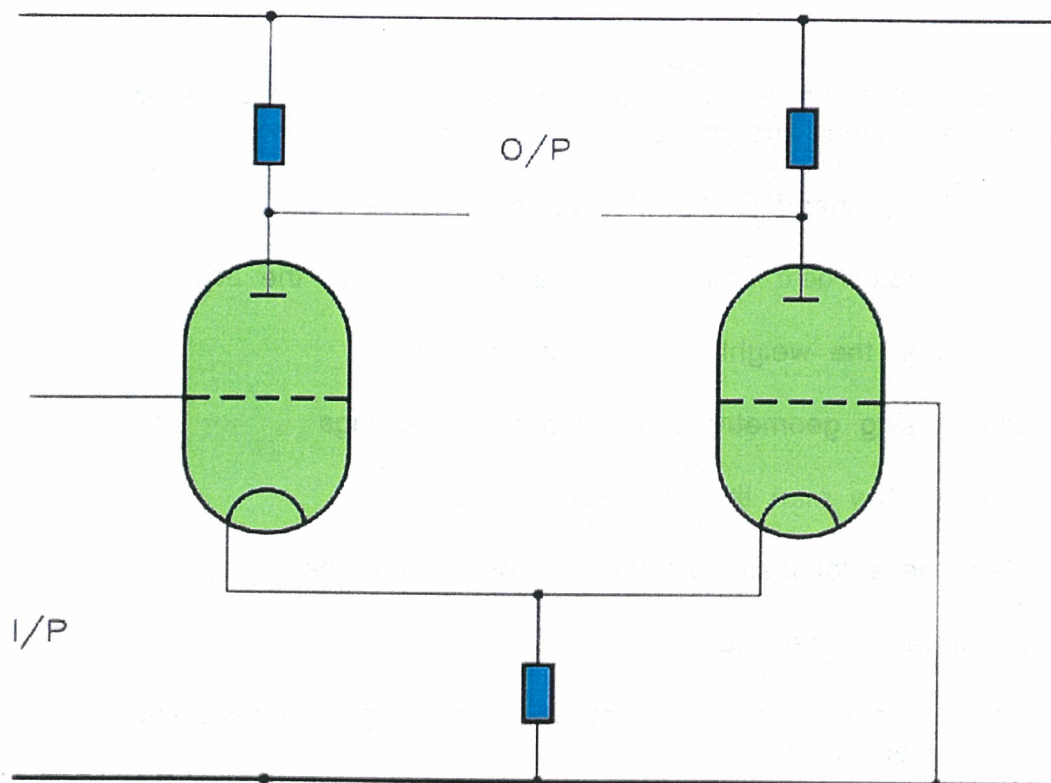


FIGURE 3. THE LONG - TAILED PAIR CIRCUIT

### BLUMLEIN CIRCUITS

- 38 Four years before this however Blumlein had patented the Cathode Follower circuit illustrated in Figure 2
- 39 Although the valve had been in existence for 20 years  
Blumlein could still look at this amplifying device a new and expand its usefulness
- 40 Something in fact he'd repeat two years later with his solution to video cable interference  
the Long - Tailed pair circuit  
illustrated in Figure 3
- 41 In my case, the battery has been around many years before I invented the S.E.G.
- 42 I looked upon the S.E.G. as a new kind of battery  
heavy in relation to batteries at this time
- 43 But then they have to be, if they are expected to give power for many years to come, which is their designed function
- 44 Another area in which both men held almost identical views was

training and teaching

- 45 Brunel had a marvellous facility for describing his designs to both his fellow engineers and to committees of laymen
- 46 In his Maidenhead Bridge design for example  
the contractor he'd employed became worried at the arch's flat design  
feeling that the weight would crush the bricks
- 47 Brunel, using geometry and his design drawings  
convinced the man that the weight would  
in fact, be a lot less than that in another wall he  
the contractor - had but recently built !
- 48 Blumlein too had the gift of readily conveying an understanding of all that he was up to
- 49 His colleagues frequently remarked on his patience at going over a circuit diagram again and again  
to ensure they understood what he was getting at
- 50 On another level, being full of fresh and original ideas himself  
Blumlein gave full credit to others for their ideas and improvements
- 51 Consequently, his colleagues gave him their complete trust

There is much to write about regarding the inventions of this man, in the electronic field, during the 1930s, but these will have to wait for the next book, because I need to cover many subjects

You see, whether you like it or not, his inventions helped me in my field, like so many other inventions - without them this technology could not exist

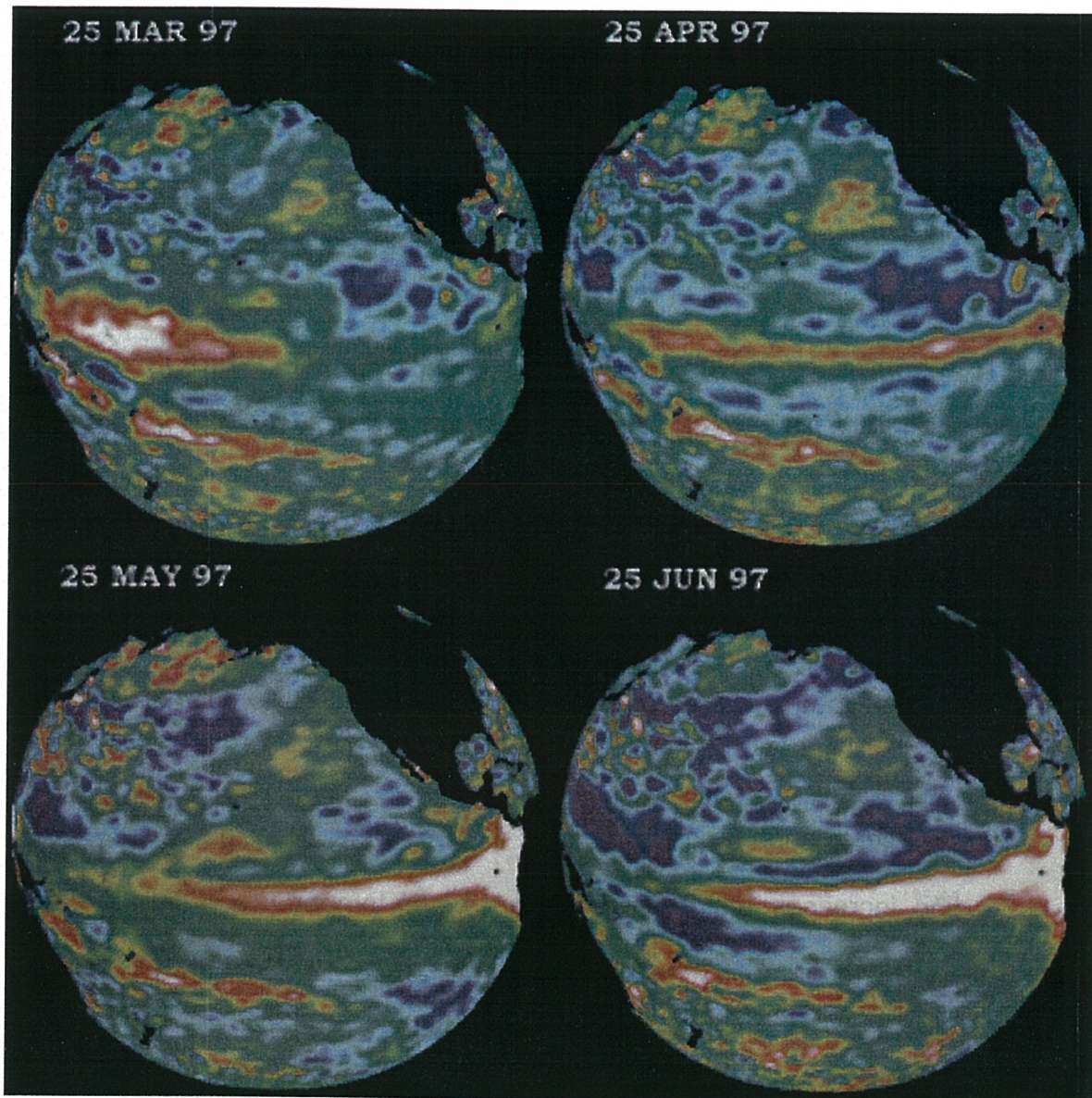
So I have just re-invented the battery - but this time - its intentions is to last much longer than any battery so far made

The reason for this statement, is that I work with nature and nature works with me, this battery works with nature, thus nature works with it.

If this battery cost £10,000.00 but lasted only 50 years, then its a bargain because the energy you used per year would have only cost £200.00 per year, which I doubt that you could at this time, used all the electric which you need for the year, and get a bill for just £200.00 - can you ?

May the power go with you until we meet again !





**FIGURE 1. THE INFORMATION WHICH I KNOW**

- 1     There can be no doubt that the arrival of the latest El Niño or Southern Oscillation has already left its chaotic marks in the choking smog of Indonesia
- 2     Which meets my warnings since 1946, but its just the beginning of what's yet to come
- 3     Hurricane force winds battering the Baja Californian coasts  
and will reach the U. K. early January
- 4     Costing million of dollars and tragic loss of life
- 5     Although President Clinton emphasised the likely effect of El Niño in an October White House news brief

accurate satellite measurements giving strong evidence of the impending consequences of the 1997 ~ 1998 El Niño as I have been

telling you about since 1946 would happen before I die and will start after the rock passes the Earth

- 6 This satellite information was available as early as May 1997

that also fits my dream perfect, 3 years from the end of the second millennium, that you will become aware of the start of this event

this is still just a warning of what yet is to come

- 7 These were provided by the U.S. / French TOPEX / POSEIDON project

- 8 El Niño's are not an act of God to punish the wicked - as some idiots might claim

I can definitely state that an El Niño is a regularly occurring climatic feature which was first noticed by Peruvian fishermen several hundred years ago around Christmas who named the effect 'the baby boy' Jesus

Maybe the flood of the world, as quoted in the bible, was a result of one of them

- 9 Scientists refer to the opposing event when warm water is transferred to the Ocean near Indonesia as La Niña or 'the baby girl'

- 10 El Niño increases the average ocean water temperature

which causes climatic change across the world

- 11 The effects of El Niño may be felt as far away as Eastern Africa

- 12 Where reduced rainfall in the Ethiopian highlands restricts the flow of the Nile river

- 13 Warm water increases water vapour over the Pacific and results in heavy rains in the usually dry U. S. Southwest and fires in the drought - stricken rain forests of Malaysia

- 14 The situation is currently so bad in Papua New Guinea that Australia and New Zealand are airlifting supplies and water to minimise the suffering

- 15 Although there is unlikely to be any significant increase in rainfall until January 1998

- 16 Simultaneous ocean measurements taken by two orbiting NASA science instruments between 1996 and February 1997 suggested that another weather - disrupting El Niño condition was developing in the Pacific

- 17 Sea - surface height measurements taken by a radar altimeter onboard



the joint U.S. - French TOPEX / POSEIDON satellite and wind data collected by the NASA Scatterometer (NSCAT) on Japan's Advanced Earth Observing Satellite (ADEOS) were used together for the first time to diagnose changing oceanographic and atmospheric conditions in the tropical Pacific Ocean

- 18 Unfortunately the ADEOS satellite was lost unexpectedly in July this year because it experienced some technical difficulties since its orbital insertion in August 1996
- 19 Officials at NASDA the Japanese National Space Department Agency say that the satellite's solar array may have been hit by space debris
- 20 The loss of NASA instrumentation for ozone detection and its scatterometer to measure ocean waves and wind speed will hopefully be minimised by the Tropical Rainfall Measuring Mission (TRMM) due for launch from Tanegashima Space Centre in Japan on 31 October
- 21 The TRMM is the first Earth science satellite dedicated to study of tropical and sub - tropical rainfall
- 22 It carries microwave and visible / infra - red sensors and has the first spaceborne rain radar which will compliment work undertaken by the Rutherford Appleton Laboratory based ironically in Papua New Guinea
- 23 Tropical rainfall makes up over two thirds of global rainfall and is the primary distributor of heat through atmospheric circulation
- 24 The El Niño phenomenon is believed to be triggered when steady westward blowing winds weaken and may even reverse direction
- 25 The change in wind direction allows the large mass of warm water that is normally located near Australia to move eastward along the equator until it reaches the coast of South America
- 26 This displaced pool of unusually warm water affects where rain clouds form and, consequently, alters the typical atmospheric jet stream patterns around the globe
- 27 The change in the wind strength and direction also impacts global weather patterns
- 28 NSCAT observed two episodes of trade wind reversal in the western Pacific  
  
one at the end of December 1996  
  
the other at the end of February 1997
- 29 Both generated warm water masses  
  
called Kelvin waves

that travelled across the Pacific and were measured by TOPEX / Poseidon

- 30 Dr. Lee-Lueng Fu the TOPEX / Poseidon project scientist at NASA's Jet Propulsion Laboratory, Pasadena, California says

Kelvin waves are often a precursor to a warm state of the tropical Pacific

sometimes leading to an El Niño

- 31 Figure 1, shows the effect of changes in the Pacific over several months with the warm water mass as white

- 32 Whether an El Niño event occurs cannot be determined by just examining the satellite data

- 33 A computer model coupling ocean atmosphere data

like the one used by the National Oceanographic and Atmospheric Administration (NOAA)

is a necessary tool to issue scientifically based predictions

- 34 For the first time

both TOPEX / POSEIDON and NSCAT provided a near real time view of global ocean winds and sea levels

- 35 Since the beginning of the instrument's operation in September 1996 NSCAT

observed stronger than normal easterly winds in the central and western tropical Pacific

- 36 Indicated by the higher than normal sea levels and sea surface temperature

- 37 This is usually a precursor of subsequent anomalous warming in the east

- 38 Kelvin waves moving across the Pacific do not necessary means El Niño but studying how seasonal phenomena like the Kelvin waves are related to events like El Niño over several years will help prediction

I think that this is a good point to stop in this book, and will continue this discussion in another, as it presents many pages just to cover our first attack upon this subject

At the same time, if I failed to make a quote upon this subject, there will be those who will lay claim that I have no knowledge upon environmental issues and should hand the work over to others who know more.



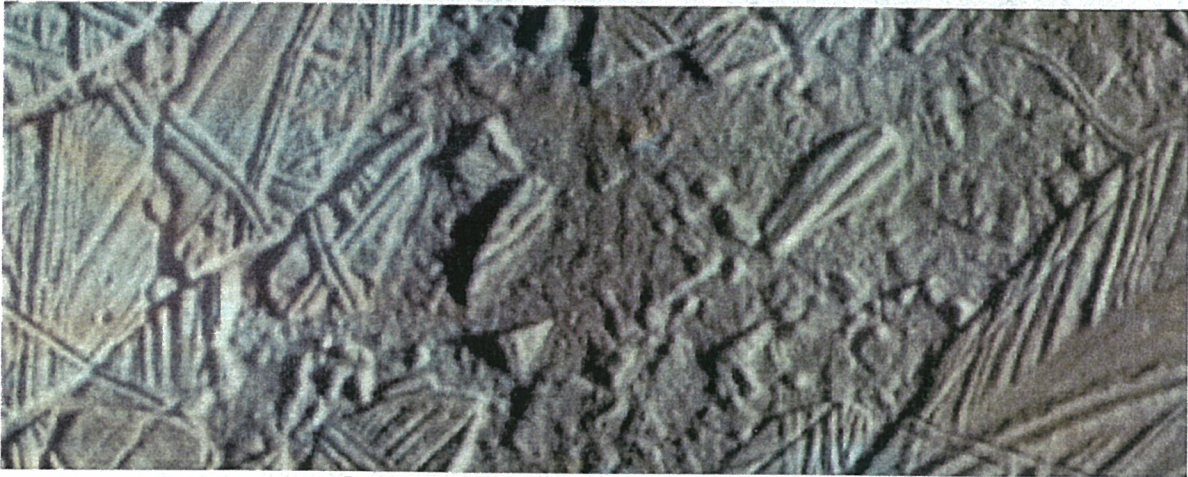


**HUBBLE TELESCOPE IMAGE**  
**The law of the Squares is correct**

- 1 STELLAR FIREWORKS RELEASE CARBON AS RAW MATERIAL
- 2 New imagery returned by the Hubble Space Telescope has revealed surprisingly intricate patterns spun into space by ageing stars
- 3 The imagery offers a preview of the final stage of our own Sun's life
- 4 The stellar fireworks also provide a way for heavier elements  
 predominantly carbon  
 cooked in the star's core  
 to be ejected into interstellar space as raw material for successive generations of
  - (1) stars
  - (2) planets
 and eventually, life
- 5 According to scientists from the University of Washington, Seattle, U.S.A.
- 6 This Hubble image, captured August 2, 1997, shows a butterfly  
 or bipolar planetary nebula called M2-9  
 in which supersonic jets of gas are escaping at 360 kilometres per second at the edges



- 7 Astronomers suspect the gravity of a nearby companion star is pulling weakly bound gas from the surface of the M2-9 central star and flinging it into a thin, dense disk that surrounds both stars and extends far into space
- 8 No, I don't think it is aliens stealing this gas to cook their Sunday joint or to do their Monday washing
- 9 M2-9 is only 2,100 light - years away in the constellation Ophiucus
- 10 Nearer home latest news



**GALILEO IMAGE OF EUROPA**

- 11 Iceberg - like formations discovered by Galileo are not believed to be the work of aliens just to inform us that they have been there  
  
but we believe at this moment in time that it indicates the possibility of water  
  
as shown in the mosaic of Galileo images above of Jupiter's Moon Europa
- 12 A small area of the thin, disrupted ice crust is shown with the white and blue areas displaying a fine dusting of ice particles
- 13 The reddish - brown areas indicate mineral contaminants
- 14 CAPE CANAVERAL, Florida, U.S.A., with its primary mission complete  
  
NASA's Galileo Jupiter probe is now on an extended two - year campaign  
  
which no doubt will interest all aliens  
  
to help scientists determine if an ocean still ebbs and flows beneath the icy crust of the Moon Europa
- 15 If it does



NASA would have a powerful argument for mounting another mission to Jupiter

One that might look for signs of life in the ice - locked sea

- 16 The only definitive way Galileo would be able to resolve the issue is if we can see surface changes that occur

between the time of the Voyager spacecraft and Galileo

- 17 We might see places of surface change

pools of material that could be erupted onto the surface

- 18 These views are based at the time of December 16, 1997

- 19 We might be able to see active geysers

- 20 Now those are probably long shots

- 21 But they would provide very clear cut evidence that Europa is currently active

- 22 The \$30 million Galileo Europa Mission began December 16, 1997 with a record 200 kilometre flyby of Europa

- 23 The first of eight planned consecutive encounters with the enigmatic Moon

- 24 The second flyby is scheduled for February 10

- 25 The last encounter in the series is targeted for February 1, 1999

I expect to still be around to see the outcome of that

- 26 Four months after this final flyby

Galileo will begin using the gravity of the Moon Callisto to sharply lower the spacecraft's orbit

- 27 Setting up two dramatic encounters with the volcanic Moon, Io, in

(1) October 1999

(2) November 1999

- 28 To reach the pock marked, sulphur - spewing Moon

Galileo will have to plunge into the heart of Jupiter's deadly radiation belts

raising the distinct possibility of a major malfunction that could silence the \$1.4 billion spacecraft once and for all

29 Based on past performance

however, engineers at the Jet Propulsion Laboratory are hopeful Galileo will survive long enough to send back spectacular photos of Io's surface

showing features as small as 6 metres across from an altitude of just 300 kilometres

that I sure want to see

30 It will pass through more radiation than the spacecraft was designed to survive by the time its completed the second Io encounter

31 However,. our experience in the past has been systems like this tend to function well beyond their design requirements would indicate

32 So we are reasonably optimistic

but by no means certain

that they will work through both of the trips

33 Galileo went into orbit around Jupiter on December 7, 1995

34 Six years after its launch from the shuttle Atlantis

35 The goal was to explore the giant planet and its four major Moon's during a two year orbital tour

36 Despite a jammed main antenna that sharply reduced data transmission rates

37 My understanding is that Galileo achieved more than 100 percent of its original objective

38 Primarily because of unexpected discoveries

39 Among those discoveries were huge ice berg - like structures on Europa and other surface features indicating the presence of liquid water at some point in the recent geologic past

maybe aliens stole the water from Mars and put it there just to tell us that they have been there

40 Jupiter dished up some nice, juicy new surprises for us that went far beyond what we had in our list of original objectives

41 Now you know why I am all for manned flight missions



- 42 Galileo's primary mission ended exactly two years after it began  
December 7, 1997
- 43 20 years after the project was approved by the U.S. Congress
- 44 The Galileo Europa Mission was approved to address tightly focused questions raised during the primary mission and to make close range observations of Io
- 45 The eight Europa flybys will take place at altitudes between 200 and 3,600 kilometres
- 46 During the December 16 flyby at 200 kilometres  
Galileo digital camera was expected to distinguish surface features the size of a large truck  
or about 6 metres
- 47 One encounter will be set up so Galileo can photograph a back -  
lighted  
crescent Europa in hopes of seeing ice geysers near the limb that would provide definitive proof of a still active sub - surface ocean
- 48 In addition to imaging  
spectral and electromagnetic studies  
scientists plan to monitor changes in Galileo's velocity as it is accelerated and then decelerated by Europa's gravity to determine more about the Moon's internal structure
- 49 Europa, like Io, is heated by the decay of radioactive materials in its core and by powerful tidal forces generated by Jupiter's titanic gravity
- 50 It's those things together that produce the heat budget
- 51 Whether that heat is sufficient for maintaining a liquid ocean turns out to be a complicated geophysical problem
- 52 The good news is that most of the current geophysical models suggest there is enough energy there to keep a liquid ocean present
- 53 But not for certain
- 54 Determining once and for all whether an ocean still exists  
may be the job of the next mission for which we hope we're laying the groundwork

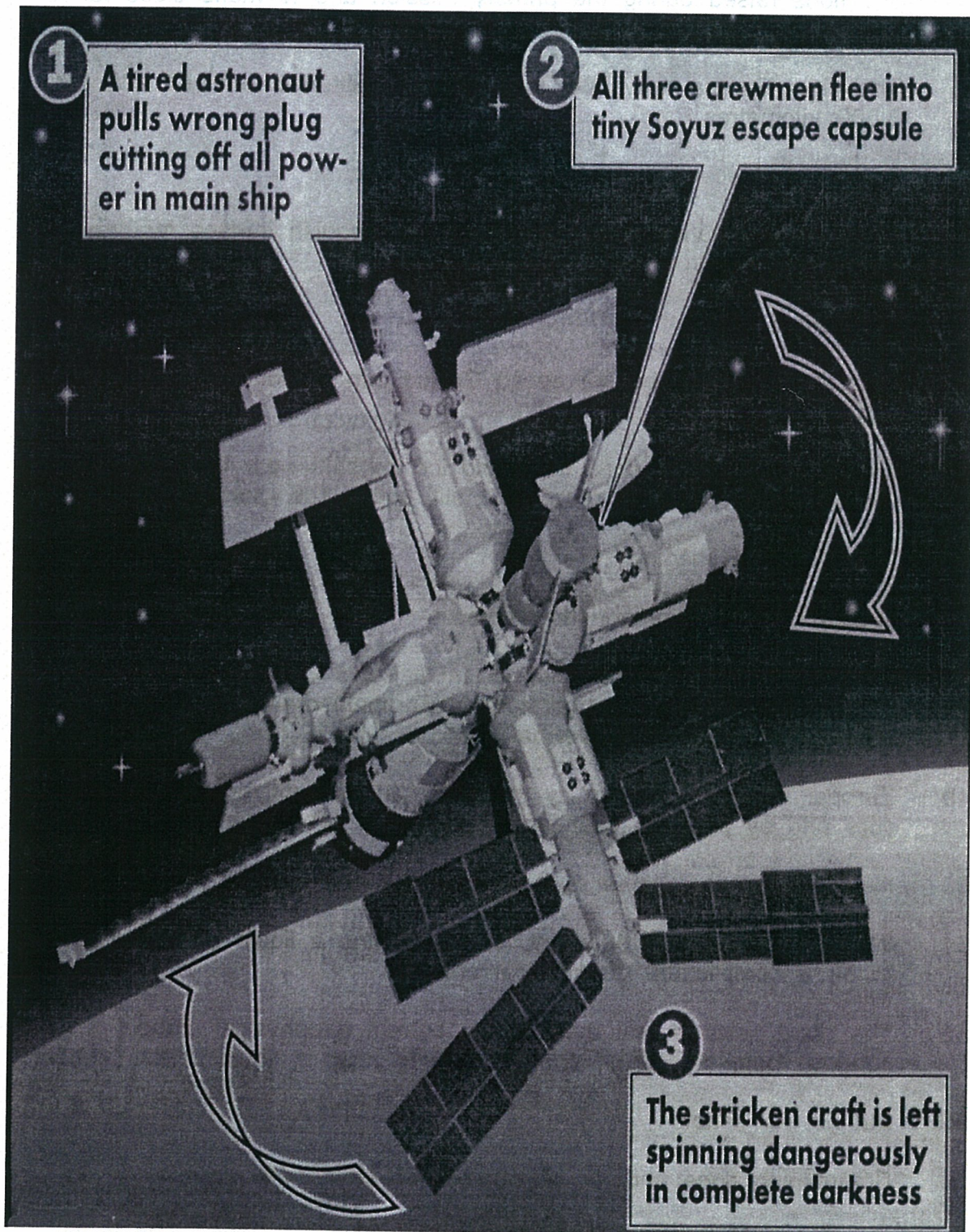


55 That was the good news

and 1997 sure was a year of excitement in space

if anything could go wrong it sure made the effort to go wrong

56 Now for the bad news



### TERROR IN SPACE

Mir spinning out of control after astronaut pulls out the wrong plug, or was it an Alien ?



57 Friday, July 18, 1997 news reported

Jinxed space station MIR was tumbling out of control above Earth last night after an exhausted cosmonaut pulled out a cable and cut its power

which of cause is what one would have expected to happen

58 Now you know why I am determined that nothing in the design or construction of STARSHIP EXPLORER could produce that kind of problem which we have now witnessed in the Mir project

59 How did the Russians scientists and engineers make such a blunder in the design and function of Mir ?

60 Because it is plain to me, that they had failed to identify all possible problems in the design and operation functions

61 I am please to state, that at no time in the past , has any project which I have designed or constructed, created any problem which could had cost a life or lives of any one

62 And I will state here and now, that during the research and development of SPACE PROJECT WANDERER and the spacecraft STARSHIP EXPLORER, will there be any chance of such an event happening with this program

for I am he, who ask the right questions, thereby, obtaining the correct answers

63 There are many people who can inform you that I have amazed them with what I can do, more so at Christmas time with my lighting display servicing electrical and electronic equipment, creating models etc.

64 The three man crew, including British astronaut Michael Foale immediately put on their space suits and dashed in the darkness to the safety of the tiny Soyuz escape capsule

65 The blunder cut a computer controlling the

(1) OXYGEN supply

the design should had never allow this state to happen

(2) Radio and TV links to Earth

(3) vital gyroscopic motors

66 They prevent Mir spinning and keep it facing the Sun so solar panels can pick up the energy that keeps it going

- 67 The crew have emergency oxygen supplies for 5 days
- 68 But the temperature inside the craft and the humidity will remain bearable for a maximum of three
- 69 A grim Vladimir Solovyov  
Russian Mission Control chief  
described the situation as "very bad....serious trouble"
- 70 But he later promised the problems would be solved by Saturday at the latest
- 71 Solovyov added  
The crew are not in immediate danger  
But the situation is uncomfortable
- 72 Other space experts were less optimistic
- 73 Professor Andre Balogh  
of Imperial College, London  
described it as  
a disaster movie in real life
- 74 He said  
"They are in serious danger  
They must evacuate now while it is still possible"
- 75 We shall wait and see if he is right in his knowledge
- 76 Sky TV's space expert Robin Scagell said  
"This is worrying  
If the Russians had any sense they would bring their astronauts down immediately"
- 77 Well time will prove if its the Russians who have got no sense or Robin Scagell
- 78 How do I stand upon this issue ?
- 79 If I were those Russians in charge of this project, I would do everything possible to save Mir and employ the astronauts to its best



advantage for success

80 But there were fears that if the Soyuz capsule was undocked it would be hit by the spinning Mir

81 The drama began when one of the weary spacemen

the two Russians have been aboard five months

accidentally pulled out the wrong cable

82 This is one accident which could never happen in any product which I design and construct

as I check out every possible mistakes which one could make

thereby avoid building in factors which could spell out disasters

83 Panic engulfed Mission Control as the duty chief barked to Mir commander Vasily Tsibliyev

"Close down all systems"

shut it down !

shut it down !

84 Later frustrated controller Solovyov turned to his colleagues after giving instructions to the crew

and said

"This is a kindergarten"

85 Mir was already on half power after a collision with a cargo ship on June 25

86 Commander Tsibliyev, 43

and flight engineer Alexander Lazutkin, 39

had planned to make a space walk to repair the damage

87 But then another disaster struck as Tsibliyev began complaining of heart pains

88 Foale, 40, from Cambridge was training to replace him on the walk when the latest crisis struck

89 But even if they do successfully abandon ship

Mir's problems are not over

90 Expert Scagell said

"Someone must return to get it into a high orbit or it will re - enter the atmosphere"

91 Because it is too big to burn up it could do lots of damage to a city

92 Back on Earth

Foale's mum was keeping a typical British stiff upper lip about the crisis

"We are concerned"

she said

"but not unduly"

=====

Let me now present my launch report to up date you on what I knew

1 The Japanese H2 rocket returned to action in November 1997 after its seasonal hiatus

2 The rocket successfully launched the U.S. ~ Japanese Tropical Rainfall Measuring Mission satellite and bless it, the Japan's Engineering Test Satellite - 7

ETS - 7, which experienced attitude control problems after launch

3 December will mark the first commercial launch of Russia's Start 1 launch vehicle

4 Which is built from retired nuclear missiles

5 The rocket will carry the U.S. remote - sensing satellite Early - Bird 1

6 Built by EarthWatch Inc., Longmont, Colorado, U.S.A.

7 It is a pity that I did not know of them when I was in Colorado in May and again in July, just a couple of years ago, I could had called on them to discuss the IGV.

again there were 2 chances to push the S.E.G and the IGV products at the ideal quarters, and we missed them

8 There is still one thing which my team has not learnt, and that is, if you want backing then you must meet the right people where ever you get the opportunity - and we have missed a few chances

This fault does not lie at my doorstep

9 Also in December



a Chinese Long March will boost Iridium communications satellites for the first time after a successful demonstration launch in September

### NOVEMBER LAUNCHES 1997

10	Date	1
	Launch Site	Alcantara, Brazil
	Vehicle and Provider	Veiculo Lancador de Satellites (VL.S) Brazil's Aerospace Technology Centre
	Payload and Owner	SCD-2A National Institute of Space Research
	Outcome	Ground controllers were forced to explode the VLS on its first flight when only three of four engines ignited
<hr/>		
11	Date	5
	Launch Site	Cape Canaveral Air Station Florida, U.S.A.
	Vehicle and Provider	Delta 2 Boeing Co.
	Payload and Owner	Global Positioning System (GPS) Satellite, U.S. Air Force
	Outcome	Launched satellite for GPS navigation system
<hr/>		
12	Date	7
	Launch Site	Cape Canaveral Air Station Florida, U.S.A.
	Vehicle and Provider	Titan 4A Centaur Lockheed Martin Corp
	Payload and Owner	Classified signal intelligence satellite U.S. National Reconnaissance Office
	Outcome	Launched classified satellite

There appears to be three rules for writing, and nobody appears to know what they are

One is never too old for romance - funny girls pass me by without even a look - they must think I am - even if I don't think so!

**NOVEMBER LAUNCHES 1997**

13	Date	8
	Launch Site	Vandenberg Air Force Base California. U.S.A.
	Vehicle and Provider	Delta 2 Boeing Co.
	Payload and Owner	Five Iridium satellites Iridium LLC
	Outcome	Launched five satellites for global wireless communications service expected to begin in 1998
<hr/>		
14	Date	12
	Launch Site	Baikonur Cosmodrome Kazakhstan
	Vehicle and Provider	Khrunichev State Research and Space Production Centre
	Payload and Owner	Kupon Russian Central Bank
	Outcome	Launched communications satellite
<hr/>		
15	Date	12
	Launch Site	Guiana Space Centre Kourou, French Guiana
	Vehicle and Provider	Ariane 4 Arianespace
	Payload and Owner	Sirius - 2 Nordic Satellite Co. Cakrawarta 1, Media Citra Indostar
	Outcome	Launched television satellite for Sweden and telecommunications satellite for Indonesia

An incinerator would be my best friend - you would be surprised at the number of sheets of paper which is thrown away, because you discover only after printing, some small detail spelt wrong, or a word missing, or a word extra - or a paragraph completely forgotten - after all, I am only human !



**NOVEMBER LAUNCHES 1997**

16	Date	18
	Launch Site	Plesetsk Cosmodrome Russia
	Vehicle and Provider	Soyuz U Russian Military Space Forces
	Payload and Owner	Resurs FIM Russian Government
	Outcome	Launched remote sensing satellite
<hr/>		
17	Date	19
	Launch Site	Kennedy Space Centre Florida. U.S.A.
	Vehicle and Provider	Space shuttle Columbia NASA
	Payload and Owner	U.S. Microgravity payload Spartan 201 retrievable satellite NASA
	Outcome	Tested impact of microgravity on materials Tested international space station tools Deployed and then manually rescued Spartan 201 solar wind satellite that was deployed without being properly activated
<hr/>		
18	Date	28
	Launch Site	Tanegashima Space Centre Japan
	Vehicle and Provider	H2 National Space Development Agency of Japan (NASDA)
	Payload and Owner	ETS - 7 NASDA Tropical Rainfall Measuring Mission NASA
	Outcome	Launched Japanese satellite to test docking procedures between H2 transfer vehicle and international space station Launched scientific satellite to measure

**NOVEMBER LAUNCHES 1997**

equatorial rainfall

**DECEMBER LAUNCHES 1997**

19	Date	2
	Launch Site	Guiana Space Centre Kourou, French Guiana
	Vehicle and Provider	Ariane 4 Arianespace
	Payload and Owner	JCSAT-5 Japan Satellite Systems Inc. Equator-S, Max Planck Institute
	Purpose or Outcome	Launched telecommunications satellite for Japan and scientific satellite for German institute to measure effect of the solar wind on earth's electric field
20	Date	3
	Launch Site	Baikonur Cosmodrome Kazakhstan
	Vehicle and Provider	Proton International Launch Services
	Payload and Owner	Astra 1G Societe Europeenne des Satellites
	Purpose or Outcome	Launched digital television satellite
21	Date	8
	Launch Site	Taiyuan Satellite Launch Centre Shanxi Province, China
	Vehicle and Provider	Long March 2C/SD China Great Wall Industry Corp
	Payload and Owner	Two Iridium satellites Iridium LLC
	Purpose or Outcome	First Iridium launch for Chinese Long March



## DECEMBER LAUNCHES 1997

22	Date	8
	Launch Site	Cape Canaveral Air Station Florida. U.S.A.
	Vehicle and Provider	Atlas 2AS International Launch Services
	Payload and Owner	Galaxy 81 PanAmSat Corp.
	Purpose or Outcome	Launched direct - broadcast television satellite for PanAmSat for services to Latin America

23	Date	11
	Launch Site	Wallops Flight Facility Virginia, U.S.A.
	Vehicle and Provider	Pegasus XL Orbital Sciences Corp.
	Payload and Owner	Eight Orbcomm satellites Orbital Science Corp.
	Purpose or Outcome	Launch satellites for electronic messaging and asset tracking constellation

24	Date	16
	Launch Site	Svobodny Cosmodrome Russia
	Vehicle and Provider	Start 1 Assured Space Access
	Payload and Owner	EarlyBird 1 EarthWatch Inc.
	Purpose or Outcome	Launch 3 metre resolution remote sensing satellite aboard converted Russian ballistic missile

**THEATRE DIRECTOR :**

A person engaged by the management to conceal the fact that the players cannot act

**DECEMBER LAUNCHES 1997**

25	Date	16
	Launch Site	Vandenberg Air Force Base California. U.S.A.
	Vehicle and Provider	Delta 2 Boeing Co.
	Payload and Owner	Five Iridium satellites Iridium LLC
	Purpose or Outcome	Launch satellites for global wireless telephone service
<hr/>		
26	Date	20
	Launch Site	Guiana Space Centre Kourou, French Guiana
	Vehicle and Provider	Ariane 4 Arianespace
	Payload and Owner	Intelsat 804 Intelsat
	Purpose or Outcome	Launch new telecommunications satellite for the Intelsat international organisation
<hr/>		
27	Date	20
	Launch Site	Baikonur Cosmodrome Kazakhstan
	Vehicle and Provider	Soyuz U Russian Military Space Forces
	Payload and Owner	Progress M-37 cargo capsule Russian Space Agency
	Purpose or Outcome	Deliver supplies to crew of Russia's Mir space station

Christopher P. Jones of the Jet Propulsion Laboratory, Pasadena, California, U.S.A. has been appointed project manager of NASA's Space Interferometry Mission, scheduled for launch in 2,005

Jones will supervise the design, development and testing of the mission, which will locate stars and other planetary systems within the Milky Way galaxy. He sure is a man we should be talking to, and quick.



**DECEMBER LAUNCHES 1997**

28	Date	Late December
	Launch Site	Baikonur Cosmodrome Kazakhstan
	Vehicle and Provider	Proton International Launch Services
	Payload and Owner	AsiaSat 3 Asia Satellite Telecommunications Holdings Ltd
	Purpose or Outcome	Launch telecommunications satellite

=====

Keith Hudkins has been named the new deputy chief engineer for NASA

He will be stationed at NASA headquarters in Washington

Hudkin's has been with the agency since 1970

His most recent position was chief engineer of the Office of Space Flight

That is another person we should be talking to very fast, and to meet these requirements I am faxing John Thomas to send each of them a copy of my SEG ring roller demonstration for them to evaluate as my copies are in Pal version only and we need the American format, so they will have no excuse for not viewing it.

-----

**Q** There are those who consider the International space station an economic black hole

Won't it drain resources from other space agendas

such as space science , and other human endeavours ?

**A** The space station allows us to exploit space scientifically

I think we also can afford to explore space

We can afford to do the kinds of things we did a generation ago in terms of challenging the unknown

I'm not pitting one against the other

I'm saying that we can't afford not to do both

We must make up our minds now for our future may well lie in space



### SUCCESSFUL START

**EarlyBird 1 was launched December 24 aboard a Start - 1 launch vehicle from Svobodny Cosmodrome in Eastern Russia**

EarlyBird 1, was the first commercial satellite to be launched from Svobodny  
Russia's newest commercial launch site

Ground controllers have since lost contact with the satellite

Those bloody aliens are at it again !

There is much I could write just upon that launch - but I need space for other discussions - and will have to leave this for the time being

---

**Q** Is it naive to believe that NASA can commercialise the space station after 10 years of operation ?

**A** The only thing that would be naive is to say that NASA does the commercialising

Private industry has to step up with the plan

commitment and investment to do it



**THE YEAR OF SPACE COMMERCE**

- 1 As Government space agencies throughout the world coped with shrinking budgets in 1997  
commercial markets were booming
- 2 Companies on every continent announced ambitious new commercial satellite ventures and commercial launch firms throughout the world launched satellites in record numbers
- 3 Let's take a rough look at UNITED STATES

**January :**

A Delta 2 rocket carrying a U.S. navigation satellite explodes above the launch pad at Cape Canaveral, Florida.

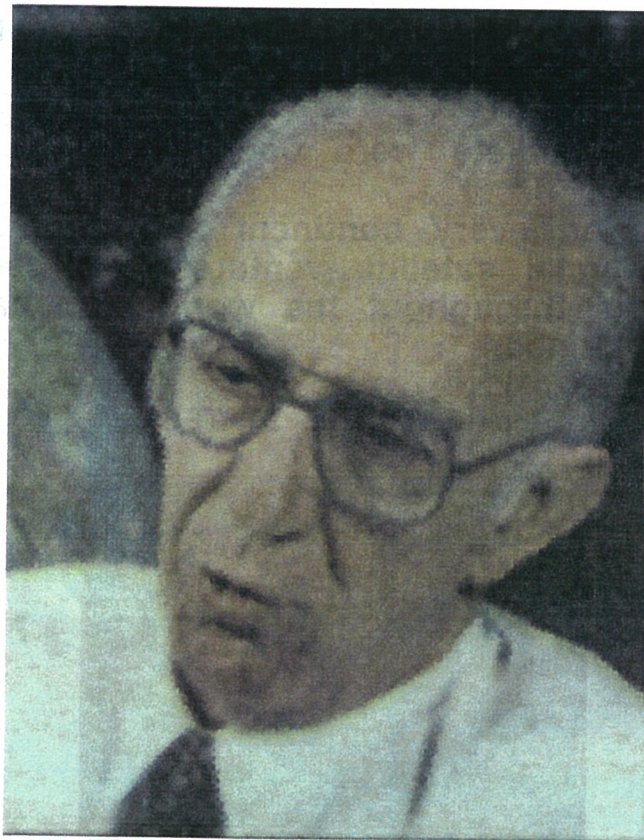
- 4 Industry criticises the secrecy surrounding the U.S. Air Force investigation of the explosion

**5 MAY :**

Iridium LLC, led by Chief Executive Officer Edward F. Staiano, launches the world's first commercial communications satellites that will be use to offer cellular - like telephone services almost anywhere on

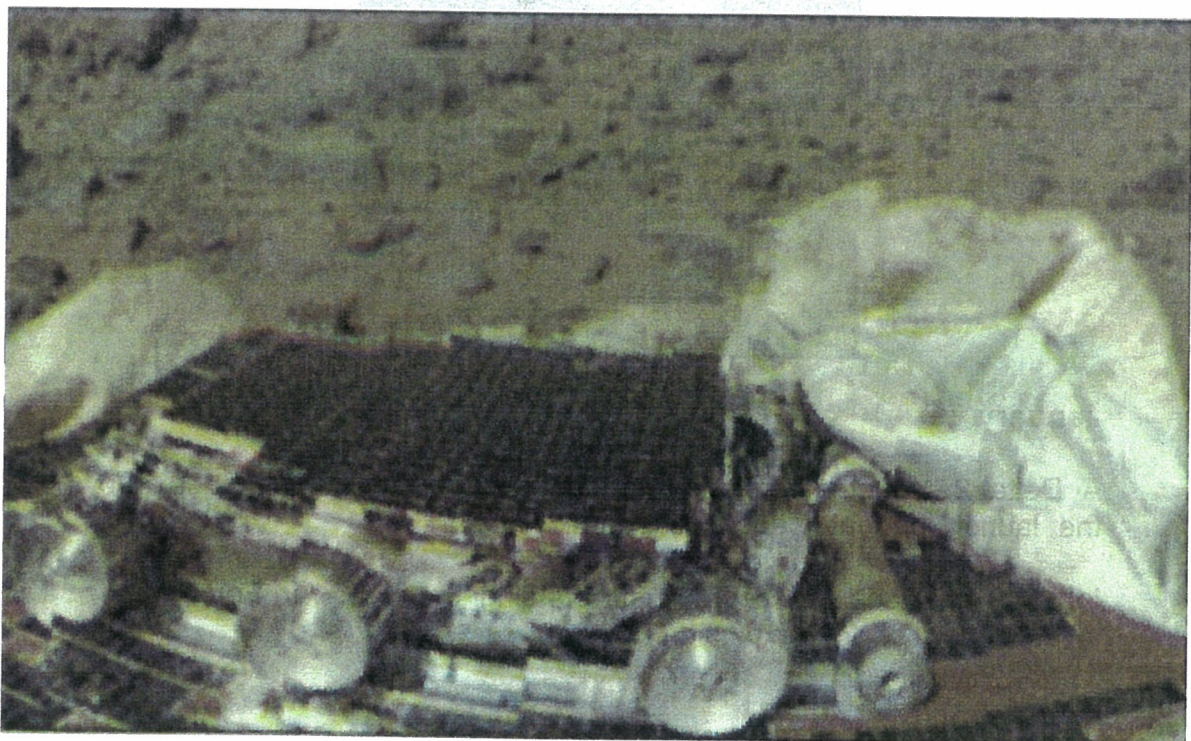


the planet



**Edward F. Staiano**

**6 JULY :**



**NASA's Mars Pathfinder** spacecraft carrying the Sojourner rover  
lands on the Red planet





7 **OCTOBER :**

**NASA's** Cassini Saturn orbiter

carrying the European Space Agency's Huygens probe bound for  
Saturn's Moon Titan

was successfully boosted into a near perfect interplanetary trajectory by  
a U. S. Air Force Titan 4B / Centaur rocket

8 **What about the efforts of MEXICO ?**



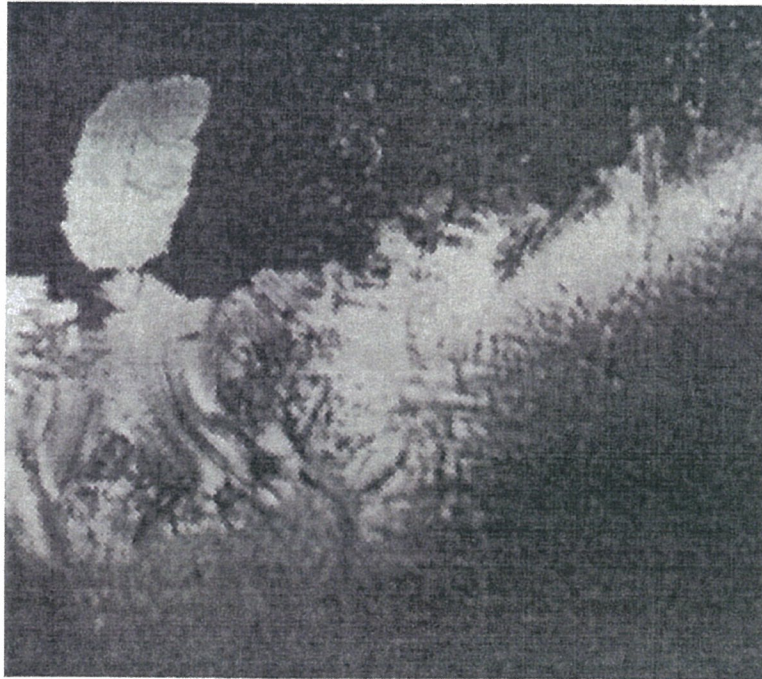
**OCTOBER :**

Telefonica Autrey of Mexico City and  
New York based Loral Space and communications Ltd

successfully bid \$688 million for a controlling interest in Mexico's state  
owned satellite system SatMex

An asset is the Solidaridad 1 satellite

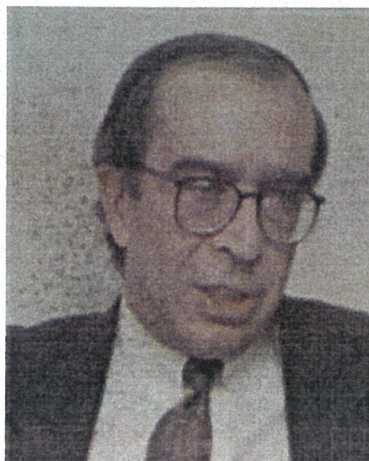
9 **What about CANADA ?**



**SEPTEMBER :**

Canada's Radarsat 1 is rotated 180 degrees in a successful effort to  
map the entire Antarctic continent

10 **What about BRAZIL ?**



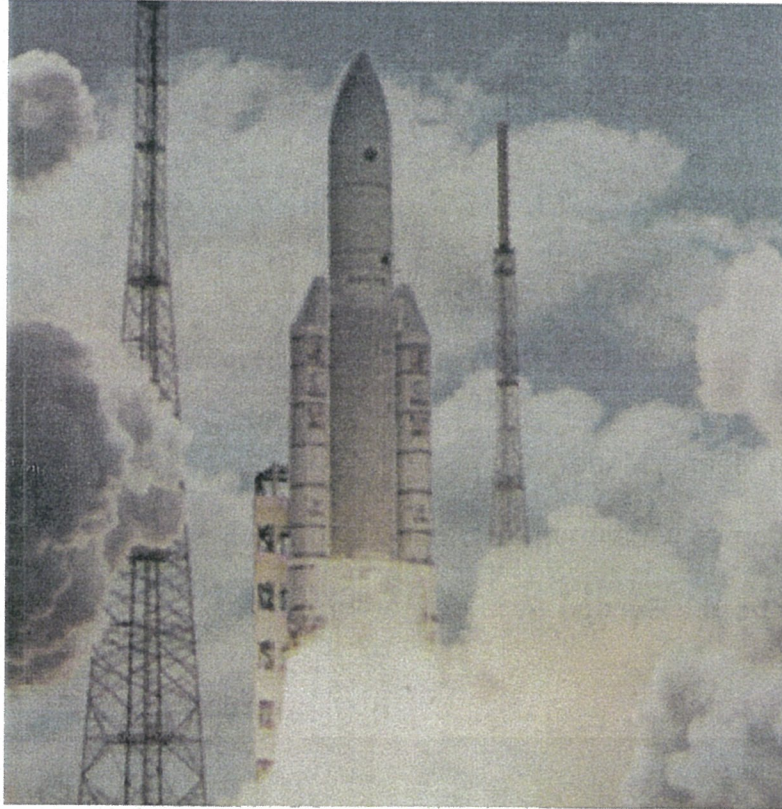
**Luiz Meira Filho**



**NOVEMBER :**

Liuz Meira Filho of the Brazilian Space Agency

says Brazil is pressing ahead with plans to build three more Veiculo de Lancador Satellites launchers despite a failure on November 2 of Brazil's first orbital launch

**11 What about FRENCH GUIANA ?****OCTOBER :**

The European Space Agency's Ariane 5 posts a mostly successful launch that puts the program back on track after a launch failure in 1996

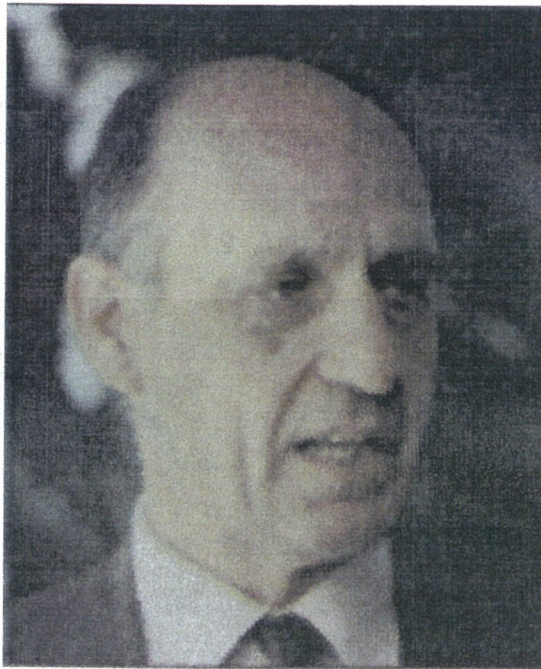
**12 What about GENEVA ?****FEBRUARY :**

Sixty nine nations sign a World Trade Organisation (WTO) agreement intended to lower barriers to cross border competition in world telecommunications markets

**13 What about the European Space Agency ?****JULY :**

Italy's Antonio Rodota becomes director - general of the European

Space Agency



Antonio Rodota

replacing Jean - Marie Luton

who becomes Chairman of Arianespace

14 **What about Europe ?**

**MAY :**



France's Matra Marconi Space

and Germany's Daimler - Benz Aerospace AG (Dasa)

begin the process of European satellite industry consolidation with the



merger of their satellite operations

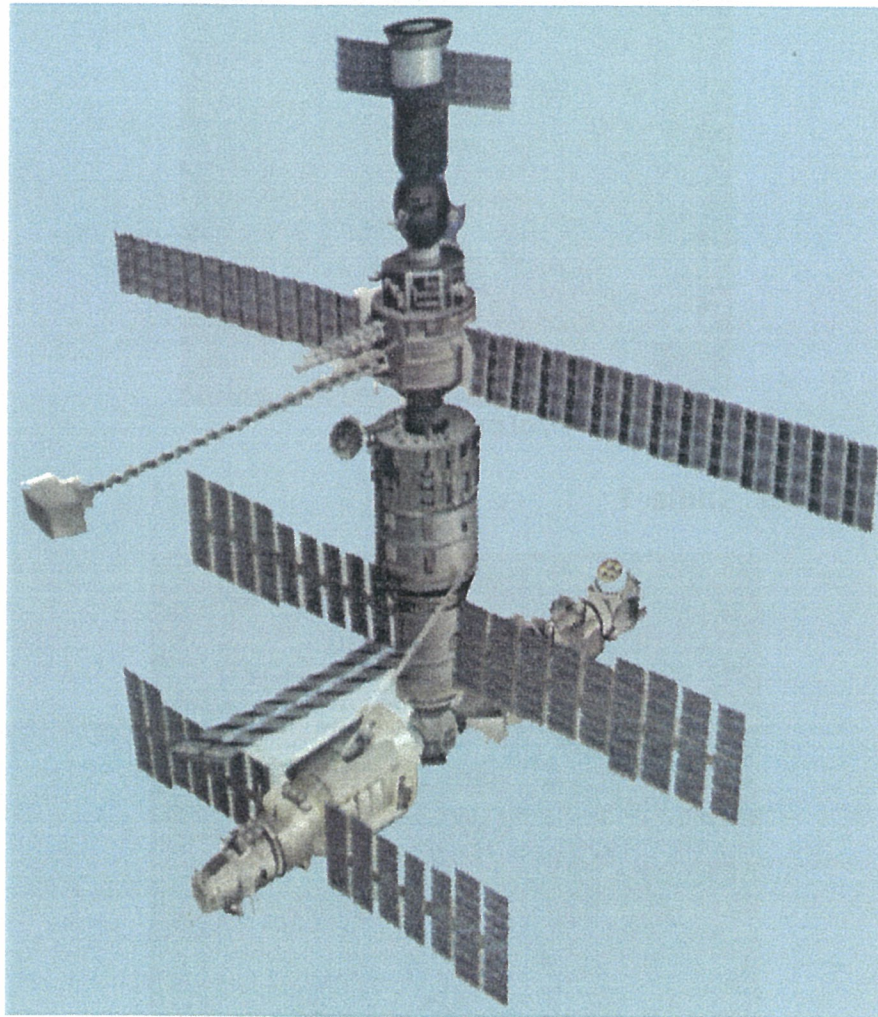
Armand Carlier (left)

chairs Matra Marconi Space

Klaus Ensslin (right)

is director of Dasa's satellite division

## 15 What about Russia ?



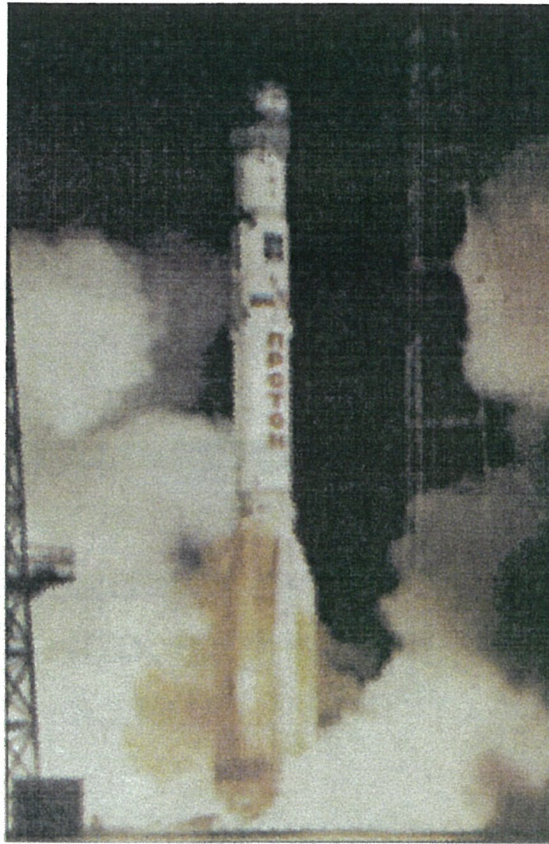
**SPACE STATION MIR**

### **JUNE :**

A Progress cargo ship collides with the Spektr module and damages a solar array on Russia's MIR space station

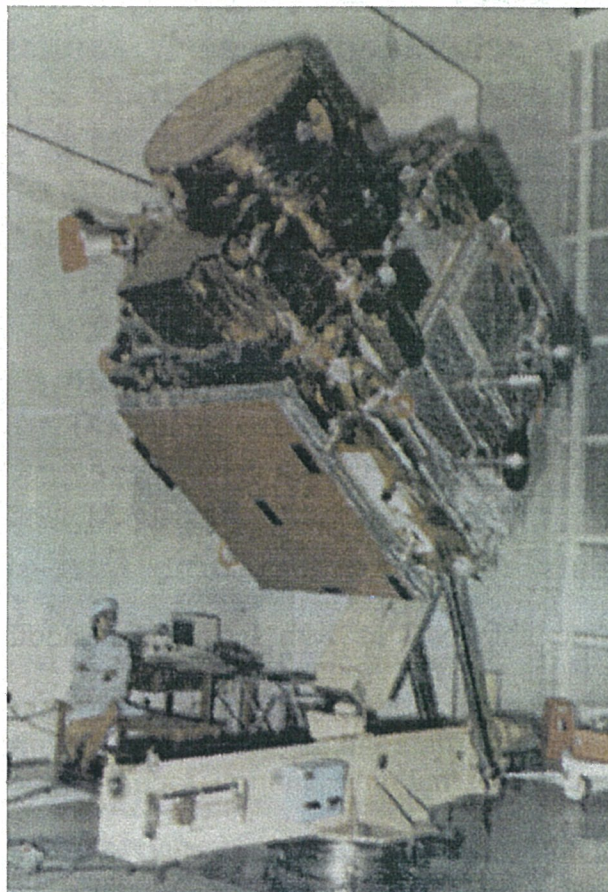
sparking international debate about the outpost's safety and setting in motion a series of external and internal repair missions

Several successful commercial launches this year established Russia's Proton rocket as a viable option for commercial payloads



Proton rocket

16 What about India ?



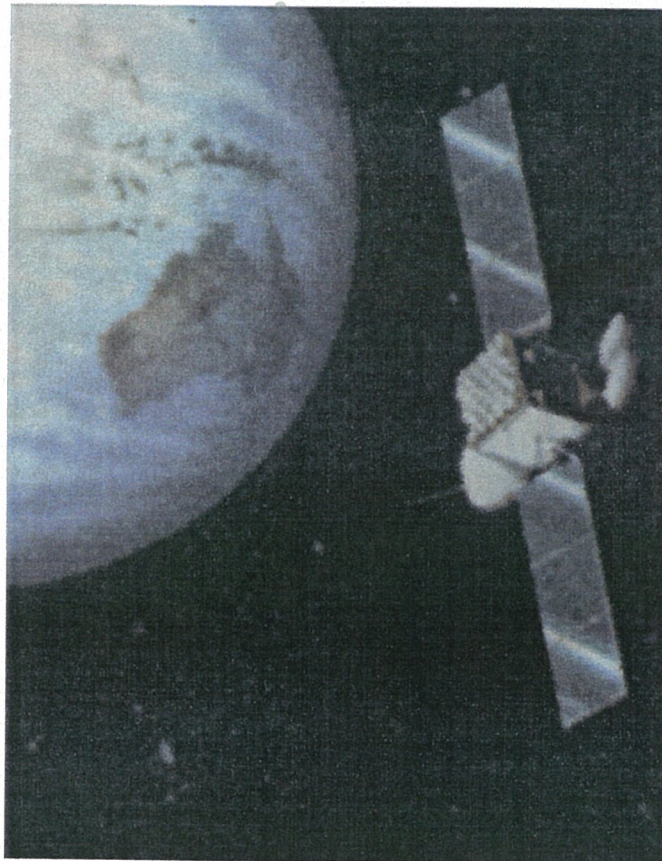
IRS-ID Remote Sensing Satellite



**SEPTEMBER :**

India launches the IRS-ID remote - sensing satellite  
successor to the IRS - 1C (above))  
aboard its Polar Satellite Launch Vehicle

**17 What about Australia ?**



**JULY :**

A regulatory change made by the Australian government ends the  
practice monopoly of Optus Communications Pty. Ltd.

which now operates two geostationary satellites

**18 What about the MIDDLE EAST ?**

**SEPTEMBER :**

The Thuraya Satellite Telecommunications project  
based in the United Arab Emirates (UAE)  
gains a major investor

Hughes Space and Communications Internationals Inc.

**NOVEMBER :**

Dubai Space Imaging is formed by a group of investors from the UAE and Space Imaging Eosat to provide high - resolution imagery to Middle East customers

**19 What about CHINA ?**

**Zhang Xin Xia**

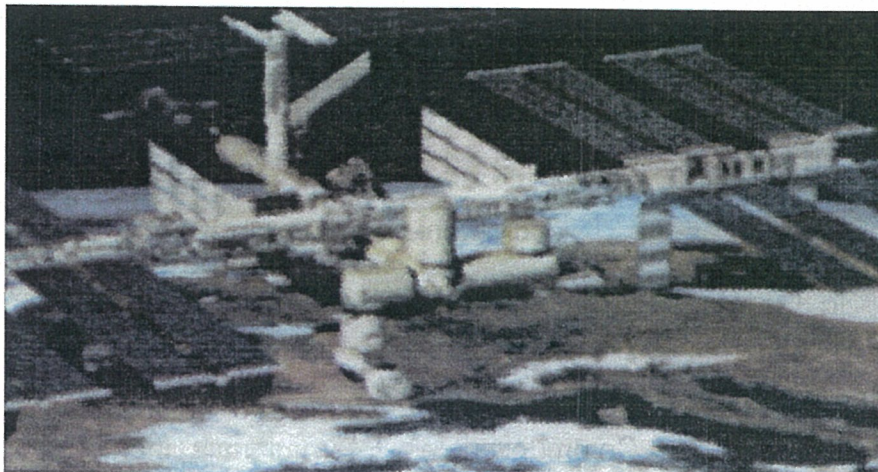
**AUGUST :**

Beijing - based China Great Wall Industry Corp.

led by Zhang Xin Xia

successfully launches a Long March 3B - series rocket

thereby redeeming the rocket in the eyes of insurers and satellite manufacturers after a 1996 launch failure

**29 What about the INTERNATIONAL SPACE STATION ?**



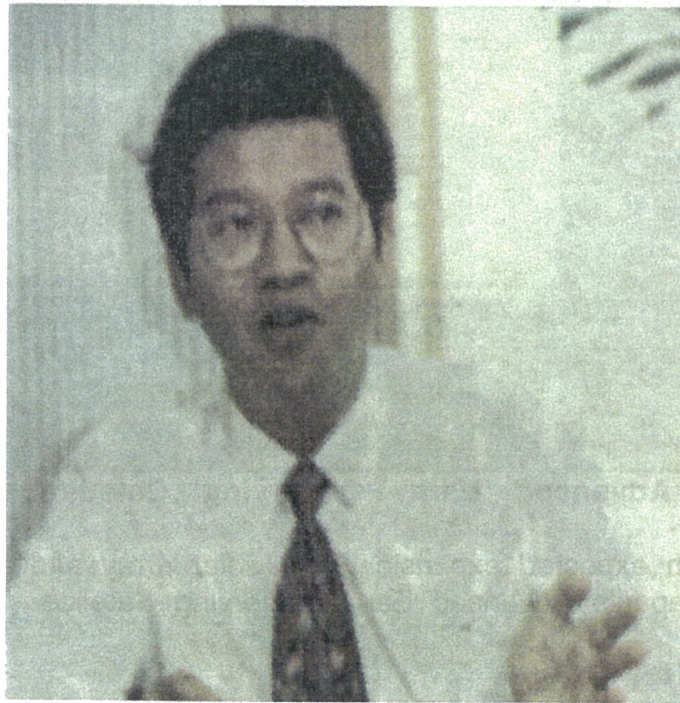
**SEPTEMBER :**

NASA Administration Daniel Goldin reveals international space station costs over runs likely will total \$600 million to \$800 million

This over run is more then will be needed to construct **STARSHIP EXPLORER** which can undertake any space work time after time without having to depend on solar cells for its energy source

You try to get this information through these top people

you cannot, because they are so constipated nothing of worth can pass through their systems, not even castor oil will budge them

**30 What about INDONESIA ?**

**ADI R. ADIWOSO**

**OCTOBER :**

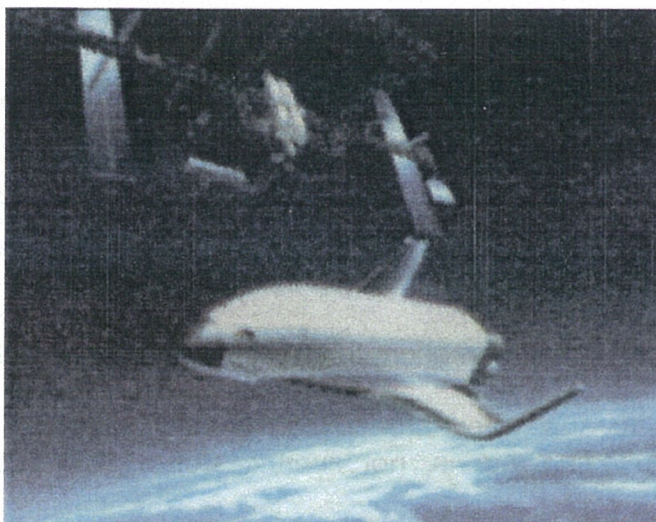
Indonesia's Pasifik Satelit Nusantara (PSN)

led by Adi R. Adiwoso

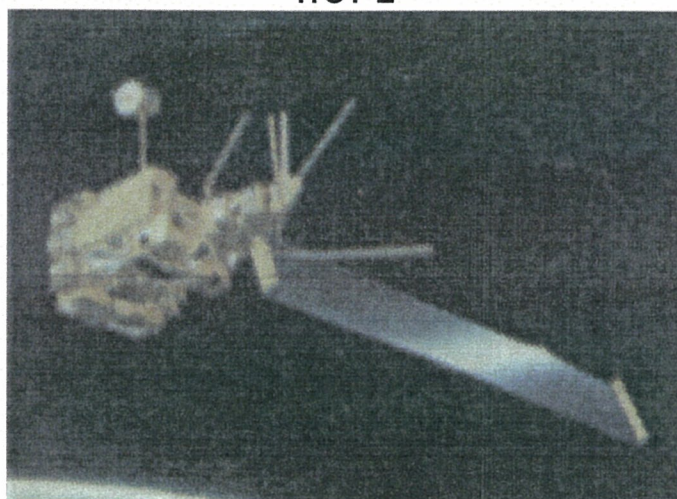
forces its MultiMedia Asia industrial contractors to agree to get clearance from PSN before using any of the program's critical technologies elsewhere

**31 What about JAPAN ?****JUNE :**

Japan's Hope unmanned shuttle falls victim to the budget axe



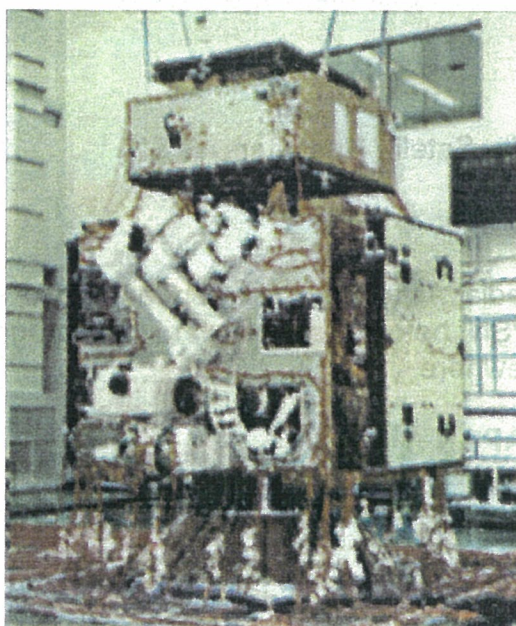
**HOPE**



**Advanced Earth Observing Satellite**

Greater than expected expansion of a solar array paddle causes the failure of Japan's Advanced Earth Observing Satellite

**NOVEMBER :**





The National Space Development Agency of Japan launches its Engineering Test Satellite - 7

and NASA's Tropical Rainfall Measuring Mission

aboard an H2 rocket from the Tanegashima Space Centre, Kyushu, Japan

### 32 What about D.I.S.C. INC. ?



#### **DECEMBER :**

D.I.S.C. INC. has been struggling to re-develop the Searl Effect Generator S.E.G.

Unfortunate, I do not have any person who is manager material

none appear to be able to supply monthly or even weekly reports to show what is being achieved

No one wants to do as they are instructed - this is resulting in a mass of financial loss in cash which is so bloody difficult to get

and time which is running out

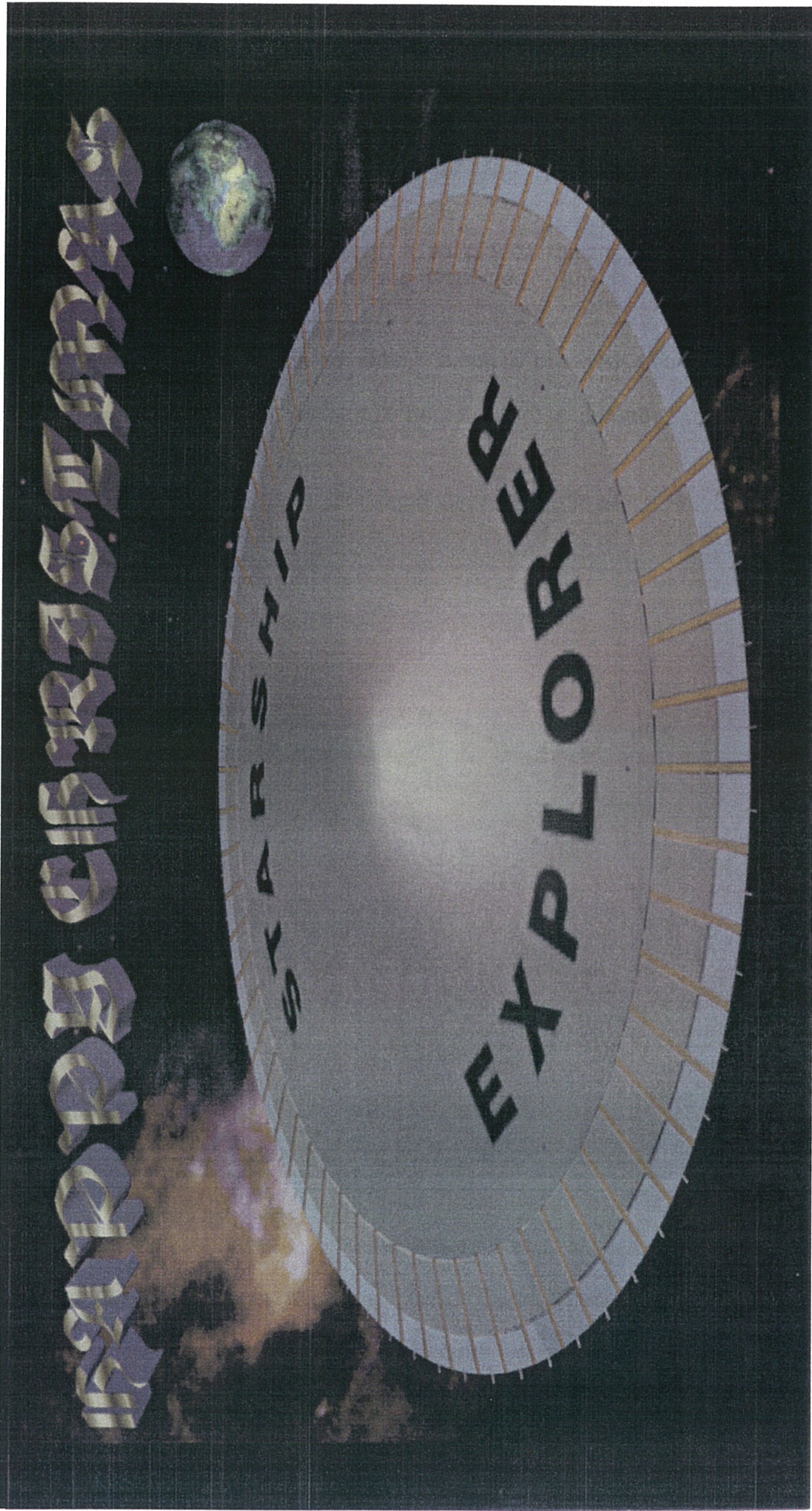
Some extremely small amount of progress has been achieved on the energy side

Upon the flight side, funding has delayed progress which has been made



D.I.S.C. INC. TEAM WISH OUR READERS A MERRY CHRISTMAS

PAGE 140.



AND MAY THE POWER BE WITH YOU THROUGH 1998





BRITISH BROADCASTING CORPORATION  
WHITE CITY, 201 WOOD LANE  
LONDON W12 7TS  
TEL: 0181-752 6681  
FAX: 0181-752 6908

24th October 1997

Professor J R R Searl  
13 Blackburn  
Lower Strand  
Grahame Park Estate  
London  
NW9 5NG

Dear Professor Searl

Thank you for your letter and video special.

I have passed your correspondence onto a member of our production team, and if they are interested in pursuing your idea for the programme, I am sure they will contact you soon.

Thank you for your interest.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Jo Gausden'.

Jo Gausden  
Research Desk

Well, here we are at the end of 1997, no word has arrived here, from them, so I must accept the opinion, that there are no intelligent members on their staff, if there was, they would be here like their arses were on fire - but they are not.

It stands out clear, that when I am again demonstrating this technology they like some other BBC programs, will be missed out as not suitable material to handle important technology like this.



**"Internet ? No Problem - I can handle it !  
I'm just feeling a bit sad today, that is all"**

**Perfectly normal for engineers like me**

- 1 People have had their own particular number codes for numeric pagers for some years now  
  
but the whole thing is getting out of hand if the latest news from Motorola in the U.S. is anything to go by
- 2 The days when you wasted maths lessons typing upside down words into your calculator  
  
and the rude words were the easiest to do for some unknown reason  
  
there's a research project for a sociologist !  
  
have been overtaken by radio technology
- 3 If you remember those words  
  
such as 07734 for "hello"  
  
which I don't remember because I never used it  
  
then Motorola recommends you send them to someone's pager
- 4 The traditional codes of 911 for urgent 999 in the U.K. are no surprise  
  
but Motorola is either tapping into the Zeitgeist of the nation or is very,



very sad

depending on your point of view

5 Motorola admits that its "numeric codes draw on popular culture the shape of numbers and common jargon to make their points"

6 What a surprising insight !

7 For example

1492 means "let's go sailing

but could be interpreted as

"go find yourself another continent"

8 Cultural references include the code for

'I'm feeling witchy'

which is 90210

the name of a U. S. soap with, presumably, 'witchy' characters

9 But the best must be the code for that well - known Vulcan saying

'Live long and prosper'

which is 1701, **WHY ?**

10 Because it is the registration number of the Starship Enterprise

11 Need I say more

12 You can get the numeric pager code free from Motorola, c/o Geltzer & Co. Inc, 1301 Avenue of the Americans, New York, NY 10019. U.S.A.

<i>code</i>	Meaning
-------------	---------

<b>911</b>	Urgent
------------	--------

<b>4</b>	Golf invitation (fore)
----------	------------------------

<b>1040</b>	You owe me big time
-------------	---------------------

<b>143</b>	I love you (number of letters in each word)
------------	---

<b>1492</b>	Let's go sailing (Columbus)
-------------	-----------------------------

<b>180</b>	You turn my life around (degrees)
------------	-----------------------------------

**CODE**      **MEANING**

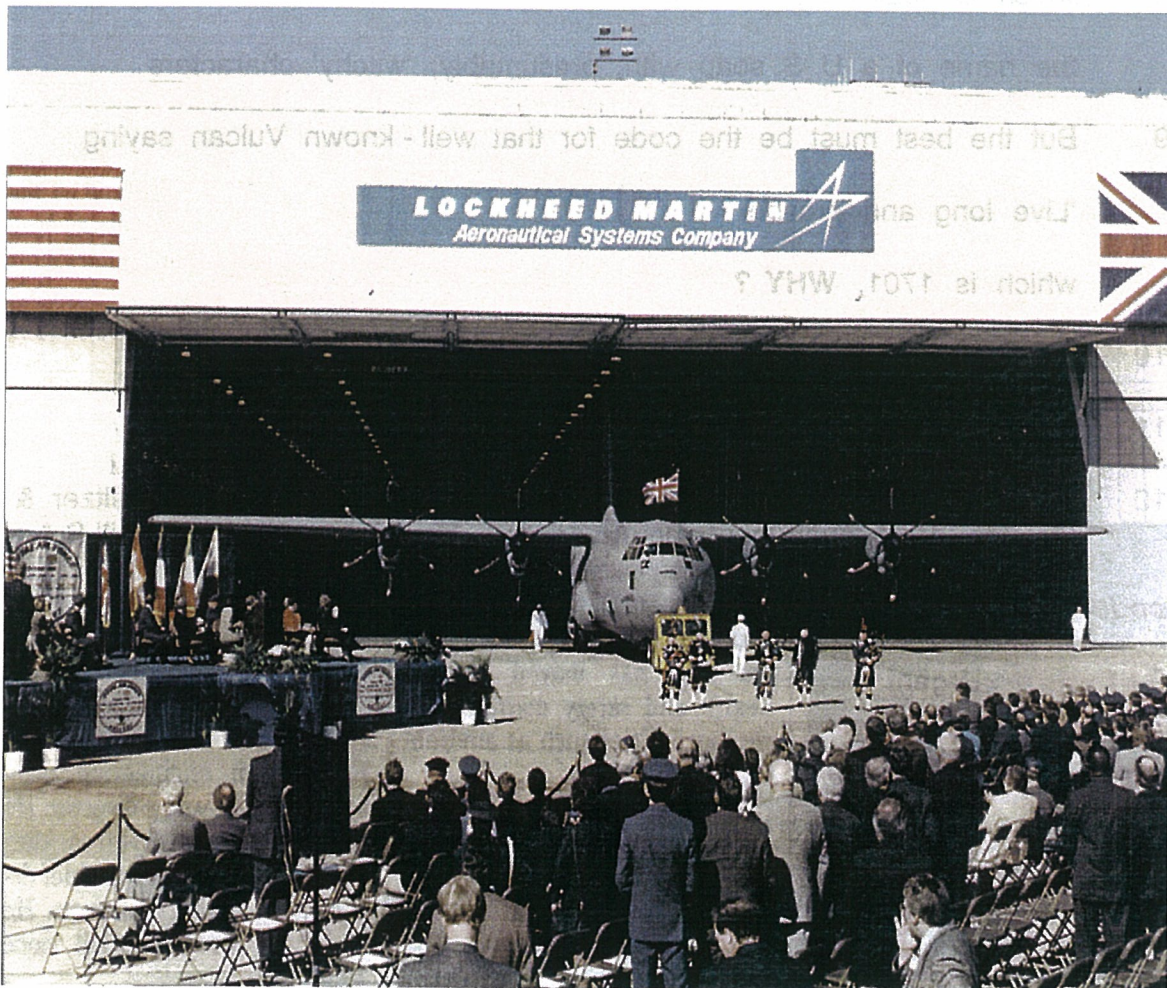
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<b>808080</b>	Hugs and kisses (don't know why)
<b>07734</b>	Hello (upside down)
<b>87</b>	Late (upside down)
<b>90210</b>	I'm feeling witchy (from Beverley Hills 90210)
<b>2468</b>	You're great
<b>13579</b>	You're odd
<b>222</b>	Please pick me up after school (after teen sitcom Room 222)
<b>099</b>	I have something to tell you

after Barbara Feldon's number in the 50's spy spoof Get Smart

**I told you it was weird**

---



The Lockheed Martin CJ130-C is one U.S. project that will boost U.K. electronics.

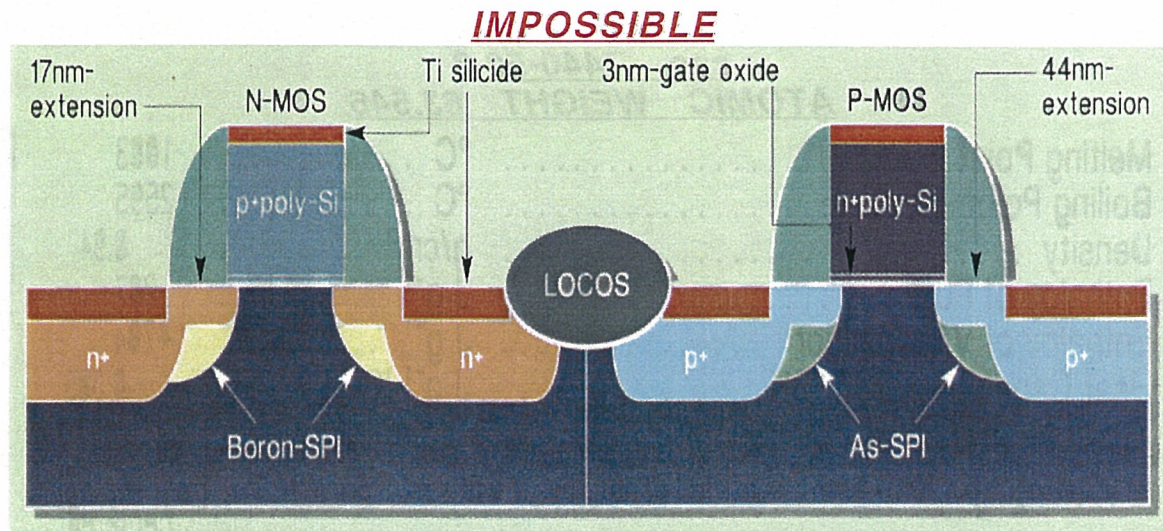


**COPPER Cu. 29.**  
**cas 7440-50-8**  
**ATOMIC WEIGHT 63.546**

Melting Point .....	°C .....	1083
Boiling Point .....	°C .....	2595
Density .....	g/cm <sup>3</sup> .....	8.94
Enthalpy of Fusion .....	J g <sup>-1</sup> .....	207
Enthalpy of Vaporization .....	J g <sup>-1</sup> .....	4784
Heat Capacity @ 298.15K .....	J g <sup>-1</sup> K <sup>-1</sup> .....	0.385
Thermal Conductivity @ 298.2K .....	W cm <sup>-1</sup> K <sup>-1</sup> .....	4.01
Crystal Structure .....		Cubic, face centered
Atomic Volume @ 298K .....	cm <sup>3</sup> mol <sup>-1</sup> .....	7.09
Covalent Radius .....	pm .....	117
Coefficient of Linear Expansion @ 298.15K .....		16.5 x 10 <sup>-1</sup>
Compressibility @ 298K .....	Pa <sup>-1</sup> .....	0.0726
Electronegativity .....	Pauling's .....	1.9
First Ionization Energy .....	eV .....	7.726
Electron Work Function .....	eV .....	4.65
Electrical Resistivity @ 298K .....	Ω m .....	1.712 x 10 <sup>-1</sup>
Magnetic Susceptibility .....	cgs .....	-5.46 x 10 <sup>-1</sup>
Poisson's Ratio .....		0.343
Mohs Hardness @ 20°C .....		3.0
Tensile Strength, annealed .....	MPa .....	206.8

Code	style	Pure %	Weight	Cost £
=====				
00091	Bar, random sizes	99.9998	100 g	48.88
		metals basis	500 g	189.05
36686	Pellets, 6.4 ~ 13 mm	99.99	500 g	78.37
	oxygen free	metals basis	2 kg	220.43
10161	Turnings	99 +	250 g	15.04
			1 kg	40.89
625121	Turnings	99	250 g	22.32
910191	Powder	99.999	10 g	58.16
		metals basis	50 g	158.74
			250 g	542.61

One must include the cost of package and shipping charges to these figures  
this is just the beginning of costing



**IMPOSSIBLE** made **POSSIBLE** by some fool like me who never knew that it was **IMPOSSIBLE** !

- 1 Researchers at Matsushita's Semiconductor Research Centre in Japan have developed the **IMPOSSIBLE** a 0.05 μm **CMOS** process which they claim is easier to manufacture than many 0.1 μm structures
- 2 In their paper  

Atsushi Hori and his colleagues describe for the first time the manufacture of 0.05 μm NMOS and PMOS transistors which use a technique called self - aligned pocket implantation (SPI)

rather than more difficult process such as solid phase diffusion
- 3 Instead of using high - energy ion implantation to create a plug or stopper of dopants
- 4 Matsushita creates shallow areas of doping for the junctions
- 5 SPI is the key to the process  

creating ultra - shallow 15 to 20 nm source / drain junctions by 5 KeV ion implantation and rapid thermal annealing
- 6 This allows high dopant densities in the substrate in shallow extension regions without increasing the capacitance of the drain junction
- 7 These regions are formed by the 5 KeV ion implantation of arsenic for a 17 nm extension for the NMOS transistors and a 44 nm extension of boron for the PMOS transistors
- 8 Using PSI to get the shallow extensions also suppresses the short channel effect

which means that the threshold voltage shift for the 0.25 μm gate

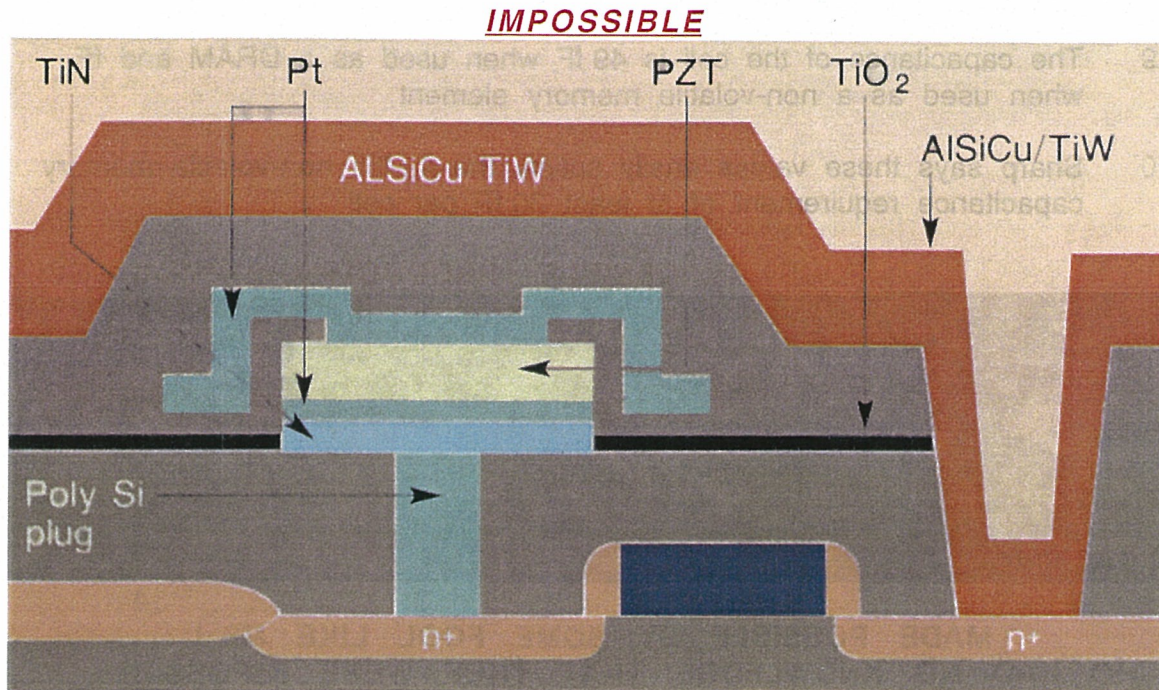


length is less than 200 mV

- 9 The gate delay of the transistor was measured and used as the basis of the simulation of an unloaded inverter at 1.5 V

comparing a device with a 0.1  $\mu\text{m}$  gate length to the 0.05  $\mu\text{m}$  device

- 10 The simulation found that the delay per inverter stage was reduced from 17 to 10 ps moving from 0.1 to 0.05  $\mu\text{m}$



**STRANGE ITS HERE**

**Sharp's 4 Mbit ferroelectric non-volatile memory**

- 11 Large non-volatile memory arrays using ferroelectric rather than flash technology could result from work that Sharp's VLSI development laboratories will report at the conference
- 12 To date, memories that use the dipole properties of ferroelectric materials to store a bit of information without drawing power have been limited to use in arrays of up to 256 Kbit
- 13 Sharp's work has extended the application of ferroelectric materials to 4 Mbit and maybe larger
- 14 A key problem in using ferroelectric materials as dielectrics in stacked capacitor memory cells has been the contact resistance between it and the plug connecting it to its transistor
- 15 The dielectric layer of PZT has to be laid as a film and then crystallised to improve its dipole properties
- 16 Ordinary annealing at over 600° C for 30 minutes allows too much oxygen to diffuse into the titanium nitride film that interfaces with the

contact plug

degrading its resistance into the Kilo - ohm range

- 17 Sharp uses a rapid thermal annealing process so contact resistance is  $100 \Omega$
- 18 The multilayer storage node cell has an area of 10.5 square mm achieved by using half - micron design rules
- 19 The capacitance of the cell is 49 fF when used as a DRAM and fF when used as a non-volatile memory element
- 20 Sharp says these values easily satisfy the 4 Mbit non-volatile memory capacitance requirement of at least 30 fF per cell

#### FOUR IMPOSSIBLE PRODUCTS



MADE POSSIBLE BY SOME FOOL LIKE ME !  
WHO HAD NO KNOWLEDGE THAT THEY WERE IMPOSSIBLE TO  
MAKE

FIGURE 1 KPT / KPSE

A high density circular connector features lots of contacts and arrangements

qualified to MIL-C-26482 series I

FIGURE 2 TRIDENT

A great 4 - 48 circuit circular connector which combines a low cost plastic body with a rugged metal coupling

Fully sealed to IP67

FIGURE 3 D - SUBMINIATURES

Thousands of styles and options

Low cost to MIL-C-24308

assembled fast from standard components

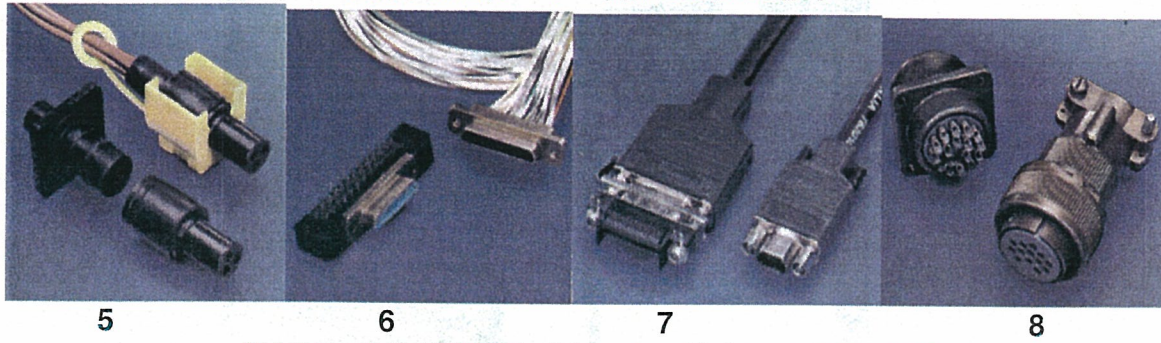


FIGURE 4 STANDARD K

The work horse

reliable, very rugged, corrosion resistant, lightweight, economical and easy to use

**ANOTHER 4 IMPOSSIBLE'S**



**MADE POSSIBLE BY A FOOL LIKE ME  
WHO DID NOT KNOW THAT THEY WERE IMPOSSIBLE TO MAKE**

FIGURE 5 SURE SEAL

Very inexpensive

Fully sealed connector

1 to 10 circuits

Extremely simple to assemble by hand or with automated assembly tooling

FIGURE 6 MICRO MINIATURE CONNECTORS

Very small, high density interconnect with twist pin contact for demanding digital applications including medical instrumentation and satellite systems

Versions to meet M83513 specs

FIGURE 7 MDSM MICRO MINIATURE D - CONNECTORS

A true micro miniature connector at commercial prices

Meets SSA industry standards

Shielded I / O

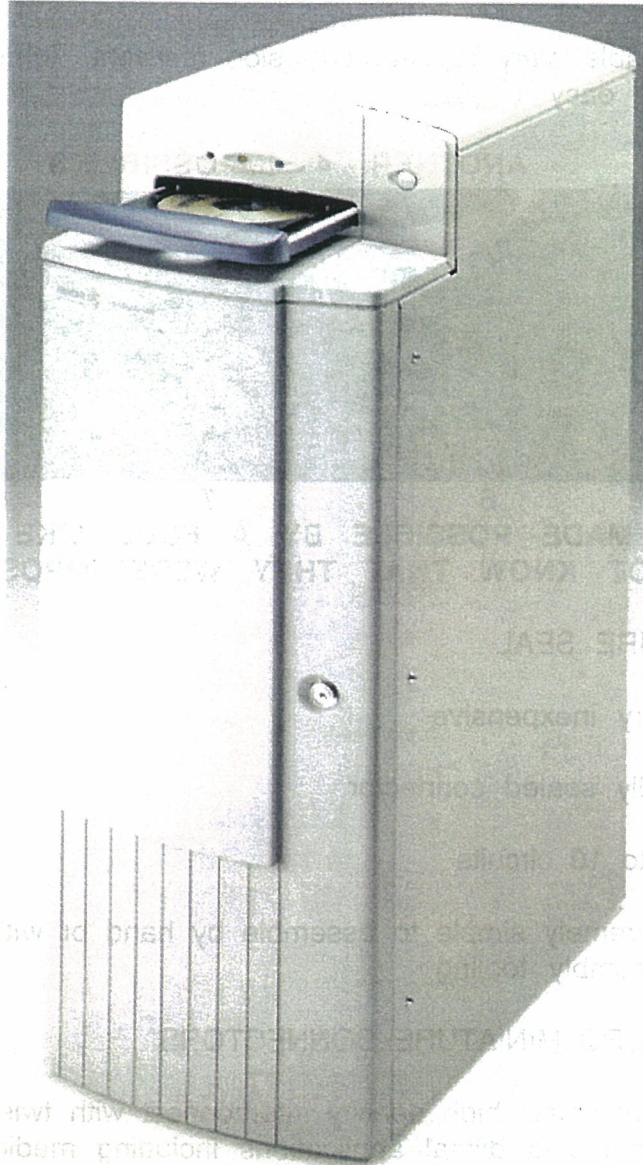
FIGURE 8 CA / MS CIRCULARS

Most widely used circular connector in the world

Low cost, rugged and extremely versatile

Meets MIL-C-5015

**YES, ANOTHER IMPOSSIBLE**



**MADE POSSIBLE BY A FOOL LIKE ME  
WHO HAD NO KNOWLEDGE THAT IT WAS IMPOSSIBLE TO DO**

- 1 The KODAK DIGITAL SCIENCE CD Library 144 is a cost - effective CD jukebox for high - volume information storage and retrieval.
- 2 Priced lower than most jukeboxes in the 100 to 200 slot configuration
- 3 It offers
  - (1) full retrieval
  - (2) archiving
  - (3) backup
  - (4) easy to use



(5) easy to load

- 4 The CD Library 144 minimises the need for training
- 5 The CD Library 144 is an open system that easily integrates all operating systems and applications  
including new technologies like DVD
- 6 It's scalability allows you to adapt the system to your evolving needs  
helping to protect your technology investment
- 7 Configurable with one to four CD-ROM / CD - R drives to meet flexible applications needs
- 8 Interchangeable drives and magazines (of 18 discs) for system adaptability
- 9 Low cost per MB for cost - effective information storage
- 10 Key locks on doors  
Front loading mailbox with password security to protect your information's integrity
- 11 Number of Discs up to 162
- 12 Maximum storage capacity : 105 GB

I feel that this is a good point to stop at in this discussion - I feel that I have made my point clear to idiots that there is nothing impossible except that the state of your mind makes it so. **AMEN !**

=====

**FACT :**

So all things created by man were impossible, until some fool made them possible

This has always been the case with Homo Sapiens - and I expect that will always be the case

From the education they receive, which appears to me, that it makes them Gods unto themselves - they get to think that they know everything - where in reality, all that they know, is the yesterdays - they cannot know tomorrow, as tomorrow is not here - and they don't appear to even know the present, but for some of us, we are gifted to be able to reason the values of tomorrow, due to the research and development in which we are devoted.

The S.E.G. will arrive, at this time, money and a team which will work with me are the missing ingredients to success



## BRAIN TEASER NO : 1.

ANSWER IN BOOK 12

---

	6		

Can you complete this square, so that :

- (1) all possible lines of 4 squares will add up to 204
  - (2) that shell 1 also equals 204
  - (3) that shell 2 will equal the value of 612
  - (4) four corners also equal 204
- 

## BRAIN TEASER NO : 2

ANSWER IN BOOK 12

---

195			

Can you complete this square, so that :

- (1) all possible lines equals the value of 442
  - (2) shell 1 will also equal value 442
  - (3) shell 2 shall equal the value of 1,326
  - (4) four corners also equal 442
- 

Do not use a computer because that will be cheating which might create the impression that you are not honest in examine tests



1 In my newsletter No. 1

I stated that I would release letters from my records in answer to the adverse conditions which now exists

2 I can now confirm the fact that the Prime Minister has been informed of my study work

3 So you may see that no underhand work is being done by me as certain persons are stating

4 Before reproducing that letter to the Prime Minister I wish to make it clear that I was not aware that he was single

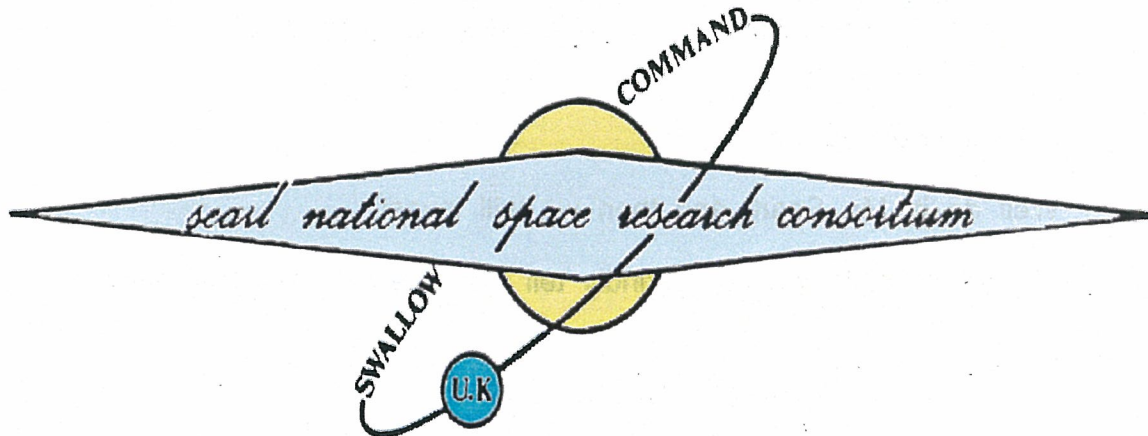
5 No insult was intended

6 Also the second item of my letter with respect to his hobby

is not intended to be critical

just a sincere wish that his hobby will not come before his duty to the country

7 That letter to the Prime Minister :



RESEARCH & DEVELOPMENT OF THE LEVITY DISC

UNITED KINGDOM DIVISION

SWALLOW COMMAND H.Q. U.K.

Flight Control Centre  
17 Stephen's Close  
Mortimer  
Berkshire RG7 3TX

Date : June 29, 1970

Continue letter to the Prime Minister :

**F. A. O. Prime Minister Edward Heath**

Dear Prime Minister,

Please forgive me for writing to you directly

But there is no one higher to whom I can write to about something which I personally feel is a **must** for Great Britain.

Yes, I could refer you to a number of press reporters who could tell you about my aims, and the work they have seen going on.

But that is the past - and not the present moment.

Thus I make this offer to yourself personally, and if you wish, to your wife as well, to come at your convenient time to my humble home to see and hear at first hand the FACTS of a project called **SPACE PROJECT SWALLOW**, it's concept and it's aims.

I write to you because you are the head of the British Government. I feel that the **SPACE PROJECT SWALLOW's** success would certainly open up many new fields and bring in great investments from overseas, which would lower the standard income tax level, which would certainly help you in winning another election.

Under the last Conservative Government, I was able to put away each week a large amount of my earnings into this research. Under Labour this, or most of it, was taken as tax. Thus **SPACE PROJECT SWALLOW** was greatly slowed down.

It is no good saying :

"Well do it, Mr. Searl, and then we will invest"

I would do it, if you could kindly tell me where to get the money to do it ?

I often work a 22 hours day.

This covers all of the night.

I would work a 24 hour day, but I must have at least 2 hours of sleep in every 24 hours. I work a seven day week, take no holidays, just keep pushing away at this project.

Then, why do I write to you ?

I am now at the cross roads, due to adverse conditions, mainly brought about by a certain school teacher named P. L. Barrett, who, to the shame of Great Britain, is circulating poison pen letters, whose objectives is to discredit this organisation, and taking away the invention from the rightful



owner, (myself), and claiming that the invention was that of two other people, one of which is dead, and the other lives in an out of the way place. This is untrue, as both persons being referred to are well and very much alive and have nothing to do with this project.

Now this Mr. Barrett is doing all he can to stop what little financial aid, which I am receiving from the public, to be able to continue this work. If he succeeds in his efforts, it means that this project will be still further slowed down.

I am determined that this project will be done, by hook or by crook it will be completed.. Therefore, I have no choice but to offer this project to the world for investment. But the rate of help is nowhere near fast enough.

The cross roads to which I am referring to, concerns the decision of whether or not, due to adverse conditions, to include the countries of Russia, Red China and Egypt in our terms of overseas help. These countries have not, so far, in relation to funding, been included. The question before me, which produces the problem

(1) is how would they use this technology ?

(2) Would they use it for war ?

This point I cannot be responsible for, if my government are not prepared to help me.

I have now done all I can to raise interest in this new concept. It is easy to build something, but there are only a few who can create the concepts by which the building can be done. I am just one of those few, but a determined one.

I do not ask for financial help for family or myself. For this I will work as always, in order to support them.

All that I am asking you for, is to be given the financial support necessary to build two models of the craft. The first I have already started. This one is to show the whole world operational concept of the functions of the craft, and to test out the whole system, and to check to see if any changes are needed in the full operational concept.

The second craft will not need all this layout, as it will be mainly just a flight model, whose objectives will be to test out the structural body against

(1) adverse weather conditions

(2) during slow flight

(3) and while hovering

(4) and to study the effects of nature on the structure itself

Then with these two models as a demonstration device, I would expect to obtain the maximum financial help needed to build the manned craft.

We have the grounds already to build both of these models and to test and study them. We could even build the main craft and operate it from that one, or one of the other sites which is one offer to me. Again, there is another area to become free in a year or two, which is government property just about one mile away from me, that would serve the purpose of a space centre with a few modifications, since the buildings, etc. are all ready there.

What more could any government ask for?

Both models of the craft would have passed all tests by the time these grounds are available for a new owner.

The Government would have the first choice of financing it as a British Space Project.

I do not ask the Government to accept the possibility of such a concept working, but I ask only to be given the opportunity to prove it with two demonstration models, as now planned.

Again, I do not ask for money for myself. The finance, if given to build these two crafts for further study, shall be considered as a loan until such time as the two crafts are completed and, it has been proved that the concept is financially workable. The Government would then be given the first opportunity of backing the main craft project.

The SPACE PROJECT SWALLOW PROJECT is different from the rocket methods, inasmuch as it consists of only a single unit, and not a multi-unit, as used in the rocket technology.

Again, this project does not use chemical propulsion systems to create reaction, thus eliminating the danger of explosions occurring.

The shape of the craft is such as to accommodate the power system, which does suit the ideal shape requirement for a vehicle to enter the atmosphere at very high speeds. Because power is plentiful, it can be used to brake the craft, instead of using the atmosphere and, because of the amount of power available, it can be used to oppose the gravitational forces acting on the body at the high speeds of re-entry.

Again, the concept is such, that the craft can continue travelling in the atmosphere to its landing site.

The concept is such, that it can handle the problems of oxygen and body waste on an ideal basis.

Your interest may well be in yachting and not in space. Whether or not your interest will achieve greatness for Great Britain, I cannot say. But I can state that the success of SPACE PROJECT SWALLOW will achieve greatness for Great Britain, and will benefit all mankind in so many ways



It is to this purpose that I again plead in the name of Great Britain, Please, please accept my invitation and come in good faith to see and hear for yourself the facts of **SPACE PROJECT SWALLOW**, it's aims and hope's for Great Britain. I leave to you the decision, based upon your findings to obtain government backing for these two models, so that they may be tested for practical evaluation in the effort to obtain government financial backing for our main project, which is the manned vehicle for space exploration.

In good faith, I have made this offer to you personally. I trust that almighty God will encourage you to accept this offer also in good faith.

The fate of Great Britain I place in your hands and prayer that you will make a wise decision upon this request.

On Sunday the 2nd of August, I will make my final decision. This will be based on the interest of Great Britain and the developments which have taken place between now and then.

To the future of **SPACE PROJECT SWALLOW** and the prestige of Great Britain, I await your reply, with prayers that God will bless you with wisdom to make a wise decision as to what to do.

For and on the behalf of **SPACE PROJECT SWALLOW**

*Mr. J. R. R. Searl. M. ins. P.I.*  
Director of Contracts, U. K.

---

You have guessed correctly, God was on his holiday at that time, I did received a reply, stating that he wish me luck or words to that effect, or that he had passed my letter on to the Government sector which was responsible for these matters. Whatever it stated, I cannot at this time confirm, unless I get a copy of that letter, which I feel certain was reproduced in one of those old newsletters of mine.

---

While upon the subject of my letters to Government officials - all my material sent to Tony Blair and other top brass of this Government, which I have to state, that at the end of 1997, I have not received one reply from them, that is how ignorant this Government is, rest assure their arses will soon be kicked by me, and it will not be light kicking.

I cannot understand the stupidity of a Prime Minister who can stand before top people of the world and make claims which he does not want to complete in a manner in which it could be achieved - he only wants to give large finical rewards to the big boys of the transport system - so that he can depend on them voting him into power again next time round.

New labour he cries - he sure is right - its bloody insane compared to old Labour, which was bad enough.

Brain Teaser No. 3.

Answer in Book 12.

- 
- 1 "I've an idea for a problem that might puzzle even Uncle Sam"
- said Prof. Searl to his brother Peter
- 2 "What have you in mind?"
- 3 "For instance
- if 42 is the harmonic mean of two different whole numbers
- then what are they?"
- 4 "Well, the harmonic mean of two numbers is the reciprocal of the
- average of their reciprocals, isn't it?"
- 5 "So there are four possibilities"
- said Peter, after some thought
- 6 "Yes, and if the harmonic mean is 24
- then there are 7 solutions"
- said Prof. Searl.
- 7 "If the harmonic mean that we give Sam is a two-digit even number
- then which would it have to be to give the greatest number of
- solutions?"
- 8 There are several such numbers - what are they ?
- 

**FACTS 6, January 1983**

- 1 Clive Sinclair is selling 10 % of the shares in his company
- Sinclair Research, of Cambridge
- to finance the final stages of developing his electric car
- 2 Sinclair stated that he was hoping to raise "several million pounds"
- from the share placing
- which is being organised by bankers NM Rothschild and Sons
- 3 He hopes to start manufacturing the electric car in 1985
- 4 In terms of numbers sold
- Sinclair is now the leading computer manufacturer in the world



having been the first to break the £100.00 and then the £50.00 price barrier with his personal computer.

---

## FACTS

- 1 New year is a time of resolutions and predictions  
and you might think the same is true of the World Wide Web
- 2 But there seem to be a slow down in the prediction business
- 3 It may mark a shift in the type of person using the Web
- 4 There are already moves afoot to start charging people to access sites  
and many of the prediction sites are just there to squeeze money out  
of the gullible
- 5 Or it could be because pundits are worried about their predictions  
coming back to haunt them
- 6 The Bad Predictions site  
[camil40.music.uiuc.edu/Classes/358/projects/theory\\_proj/badpredict.html](http://camil40.music.uiuc.edu/Classes/358/projects/theory_proj/badpredict.html)  
records some of those less visionary statements  
some from a century past  
which are always good for quoting against the market researchers and  
industry experts
- 7 "I have travelled the length and breadth of this country and talked with  
the best people  
and I can assure you that data processing is a fad that won't last out  
the year"  
said the editor in charge of business books for Prentice Hall in 1957
- 8 "There is no reason anyone would want a computer in their home"  
said Ken Olson, president and founder of Digital Equipment in 1977
- 9 "This 'telephone' has too many short comings to be seriously  
considered as a means of communications  
The device is inherently of no value to us"  
was the considered view of Western Union in an internal memo in  
1876

- 10 "640 K ought to be enough for anybody"  
said Bill Gates in 1981
- 11 But you could make your predictions so far ahead that no - one will be left alive to worry about them
- 12 The year 3,000 site (or YEK)  
[www.y3k.com/whencig.html](http://www.y3k.com/whencig.html)  
is a delightful pun on the year 2,000 (Y2K) millennium bug worriers
- 12 Unfortunately, Tim Goody  
[www.voicenet.com/-goody/tech\\_predict\\_97.htm](http://www.voicenet.com/-goody/tech_predict_97.htm)  
left his prediction for last year  
so we can have a good look with 20/20 hindsight
- 13 He predicted that the network computer would see limited success in 1997  
but not nearly as well as predicted
- 14 He also said Microsoft would form an alliance with Compaq and Motorola to create a PCS/CDPD/CDMA/ cellular intelligent PDA phone
- 15 No sign of that yet  
but you never know
- 16 But his last prediction that intranets will be realised as a fad  
sorry Tim  
I think that one's shown to be way off base
- 17 In pride of place is good old BT Labs with its on - line calendar of future technologies  
[www.labs.bt.com/library/on-line/calendar/](http://www.labs.bt.com/library/on-line/calendar/)
- 18 The wristwatch telephone was due last year and  
while there were some around  
it hardly came into widespread use
- 19 Low Earth orbit world-wide satellite comms are due to start this year  
and may well take off or fall back down in 1999



- 20 Some of the more futuristic predictions say that unified personal phone numbers for everything will start in 1999 but will only become mainstream in 2001

while go anywhere personal numbering will only be mainstream in 2,004

- 21 Some of the more interesting predictions come from the weird sector

Starmap's

[www.execulink.com/~starmap/predict.htm](http://www.execulink.com/~starmap/predict.htm)

predictions come from a range of sources, including the Bible, Revelations, The Great Edgar Cayce, The Fatima Prophecies in Portugal

Nostradamus of course

Aztec Prophecy and the diary of Pope John XXIII

- 22 You could turn to the stars for inspiration

- 23 The U. K. hosted but U. S. facing Kozmik Horoscope

[www.demon.co.uk/kdm/98yrord.html](http://www.demon.co.uk/kdm/98yrord.html)

is offering its 1998 economic forecast

highlighting which industries will do particularly well

- 24 The forecasts include

U. S. makes further staggering scientific advances in communications

gee whizz !

- 25 Computerisation sweeps into every area of commercial life

golly, that's a surprise

and the internet becomes mainstream

well, I be blowed

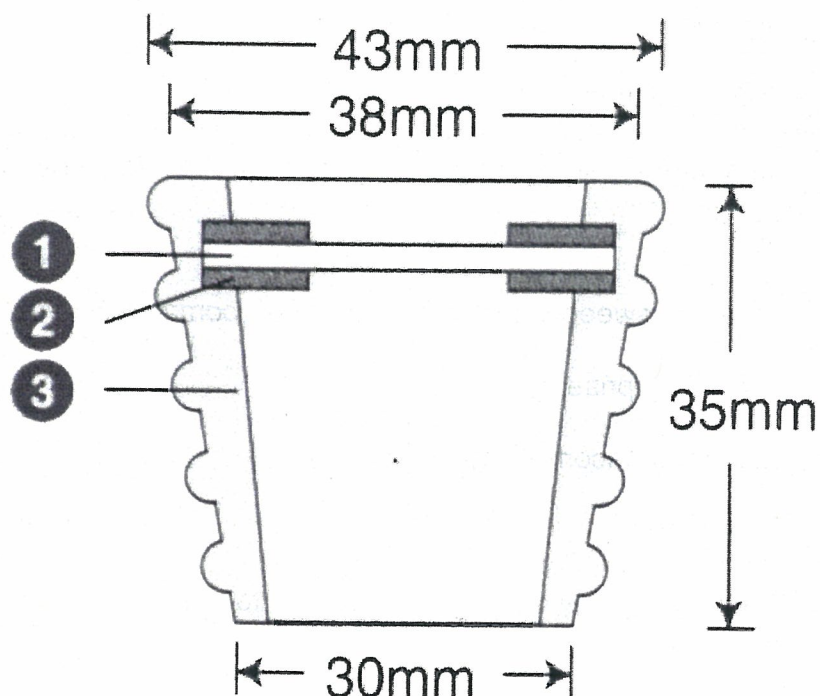
- 26 I won't be sending my credit card details to find out the details behind those headlines !

Happy New Year

I will take a break until the next time we meet until then may the power be with you today and for always.

**BUG STOPPER**

- 1 The new BugStopper from Whatman is a unique device which gives me a simple and reliable way of venting my culture vessels which SPACE PROJECT WANDERER will require
- 2 BugStopper is a reusable, sterile closure
- 3 Made from biosafe silicone and incorporating a glass microfibre filter to provide an ideal vent

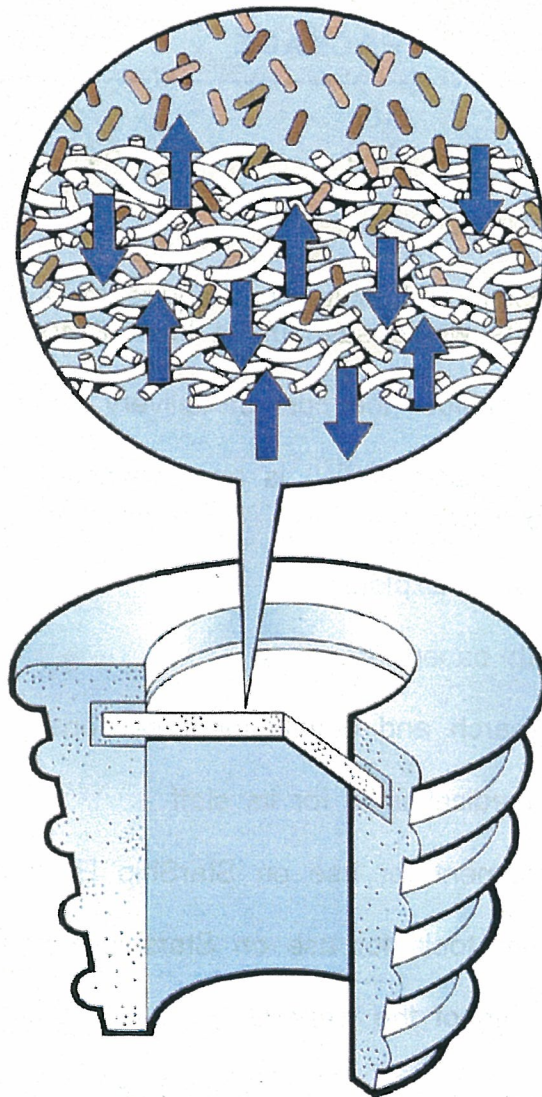


- 4 (1) Vent is made of hydrophobic ultrafine glass microfibre media reinforced with a polyester monofilament layer



- (2) Stainless steel reinforcement ring surrounds the media for added support
- (3) Biosafe silicone wall

5



BugStopper allows air to enter and exit a culture vessel whilst not allowing bacteria or viruses to enter or exit

- 6 BugStopper retains 99.97 % of all particles of  $0.3\text{ }\mu\text{m}$  or greater in size
- 7 The silicone wall can be pierced by needles making it easy to insert a sample port or for gas infusion
- 8 The BugStopper fits a variety of standard narrow necked culture flasks
- 9 The BugStopper is extremely simple to use  
you just need to push it onto the flask
- 10 It is also very economical because you can autoclave it and reuse it

time and time again without any loss in its performance

- 11 BugStopper can be autoclaved while still on the vessel retaining the integrity of your sample

- 12 Cost details

DESCRIPTION	PACKAGE	CAT. NO.	PRICE £
BugStopper	10	6713 3010	69.91
BugStopper	100	6713 3100	559.00

By buying the 100 pack

which Starship Explorer hospital will require for a 2 ~ 3 years exploration of Mars would save us at least £140.10

Then one must consider the cost of delivery which would be involved

- 13 Space Project Wanderer (SPW) is an extremely complex project which includes not only the :

- (1) Starship Explorer
- (2) Earth based Starports
- (3) Research and development sections
- (4) Its medical units for its staff
- (5) Equipment for use on StarShip Explorer
- (6) Power tools for use on Starship Explorer exploration

- 14 This is only the tip of the iceberg

- 15 If D.I.S.C. is to be taken serious, then D.I.S.C. better wake up and start to write reports which are absolute detailed upon what each member is undertaken and its progress - which so far to date has failed to take place

- 16 I am limited in what I can write upon this work, as it appears that I am not involved in any way - this is of course insanity on the part of those who feel that they know exactly what to do, so why waste time dealing with Searl

- 17 Over these years I have witnessed no evidence, that they are correct in their thinking, but one thing has been proven so far to date, is that my statement that people sure knows how to waste time and money holds true

I will end this report at this point - and may the power go with you



		<u>OCTOBER 1997</u>			
DAY	NAME	TIME		COUNTRY	PURPOSE
		IN	OUT		
04	Tayfun Kocak	1800	2100	Bedford	U.K.
	Tested oscilloscope ring segment voltage reading on PC				
10	Martin Colborne	1400	1540	Kent	U.K.
	Explained to Claudine of German T.V. Pro 7 how he is progressing on the S.E.G. demonstrator				
10	Claudine de Montule	1420	1505	London	U.K.
	arrived with a female partner from her office to hear what Martin had to say and to tell us what she has done to help. I asked her about my payment for doing that day's filming for the T.V. network. She acted shocked that I had not yet received this payment and stated that she would look into this as soon as she gets back to the office member				

On December 31, 1997 I still have not received that payment due to me, though I have both fax and phoned her many times upon this issue and so has Martin. I have therefore ordered this information to be placed upon my Web pages for all to see

		<u>NOVEMBER 1997</u>			
DAY	NAME	TIME		COUNTRY	PURPOSE
		IN	OUT		
04	Stan Chen	1245	1635	Taiwan	
	Discussed project shown video of ring / roller operation + graphics gave him copy of Brad's London report to translate into Chinese's for me				
	December 31, 1997, this Chinese report has not been received				
06	Bryon Jordan	1320	1620	Glastonbury	U.K.
	Brought yellow flight cell to leave here. Discussed progress. But failed to bring 2 passport photos for be a member of D.I.S.C. team and also claimed that the photos taken of the work on the flight cells failed to come out he will have to re-take them				

December 31, 1997, no passport photos have been received, nor the photos of the flight cell to show the progress of the work

**As from November 1st, 1997, all members must supply 2 passport photos for our records, or otherwise they are no longer members**

06	Tony Jenkins	1320	1620	Glastonbury	U.K.
	Discussed work progress. But failed to bring 2 passport photos to remain as a member. He brought his girlfriend with him				

		<u>DECEMBER 1997</u>			
DAY	NAME	TIME		COUNTRY	PURPOSE
		IN	OUT		
04	Tony Jenkins	1400	1440	Glastonbury	U.K.
	Brought copy of Book 1, full version gave me 4 passport photos of himself to complete his details for membership				

BANK LOAN OF 120 PAYMENTS PRINTER

DATE	PAID £	PAYMENTS	TOTAL £
20.10.1997	269.96	12	3,239.52
18.11.1997	269.96	13	3,509.48
15.12.1997	269.96	14	3,779.44
3 MONTHS	809.88	3 PAYMENTS	809.88

=====

This represents just the rights to use this printer - but to write these books calls for 4 cartridges of ink plus a bottle of fusion oil + a photoconductive cartage to produce 9 copies of my books. These are not cheap items

Therefore the charges being levelled on the sale of these books are well below the cost of producing them, this will be the case of 15 years - at this time, I am struggling to keep going, but at anytime in the future, I may have to sell out, just to clear the bill of these books.

Now besides that there is the cost of the energy used in their production

ENERGY £145.07

TELE / FAX £145.07

COSTING OF INFORMATION RUNS INTO THOUSANDS OF £'S WITHOUT WHICH D.I.S.C. INC. COULD NOT FUNCTION AS A COMPANY.

BOOKS SOLD

DATE	NAME	DISTRICT	COUNTRY	BK	MANY
01.10.1997	John House	Perth	Australia	11B	1
07.10.1997	Tony Blair	Prime minister	London	FI 1S	1
11.10.1997	Paddy Ashdown	MP Leader	London	FI 1S	1
13.10.1997	Valery Ryumin	Manager MIR	Russia	FI 1S	1
13.10.1997	Vera Medvedkova	MIR	Russia	FI 1S	1
17.10.1997	John A. Thomas		NY USA	11B	1
17.10.1997	John A. Thomas		NY.USA	11A	1
17.10.1997	John A. Thomas		NY.USA	10	1
23.10.1997	John A. Thomas		NY.USA	FL 1S	1
03.11.1997	Bertrams books	ltd	Norwich	1	1
03.11.1997	Caroline Doyle		Glasgow	1	1
05.11.1997	Arron Murphy		Birkenhead	11B	1
01.12.1997	R.V. Beale		Port Talbot	1 F.B	1
06.12.1997	Arron Murphy		Cheshire	1.F.B.	1
08.12.1997	Tony Jenkins		Glastonbury	1.F.B.	1
12.12.1997	C.G.Anugus		London	1.F.B.	1
27.12.1997	Leonard de Fazio		NY.USA	1.F B	1

I agree that it appears that D.I.S.C. INC. don't sell many books - and from my records as shown here, that is true. This record is just all the material sold to the public during the last quarter of 1997 add this to the information on sale of books etc. for the year 1997, its appears to be extremely poor effort.

Will 1998 do any better, that we shall have to wait and see the results



**BOOKS OCTOBER ~ DECEMBER 1997****BOOKS SOLD IN UK**

<b>1997 OCTOBER</b>		<b>DISTRICT</b>	<b>BOOK</b>	<b>Serial No</b>		<b>COST</b>
04	Tony Blair Prime Minsister	London	FLYER 1	1		FREE
11	Paddy Ashdown MP	London	FLYER 1	1		FREE
<b>1997 NOVEMBER</b>		<b>DISTRICT</b>	<b>BOOK</b>	<b>Serial No.</b>		<b>COST</b>
03	Caroline Doyle	Glasgow	1	36	1	20.00
03	Bertrams Books LTD	Norwich	1	35	1	20.00
05	Arron Murphy	Birkenhead	11B	04	1	100.00
<b>1997 DECEMBER</b>		<b>DISTRICT</b>	<b>BOOK</b>	<b>Serial No</b>		<b>COST</b>
01	R. V. Beale	Port Talbot	1.F.B	53	1	65.00
06	Arron Murphy	Cheshire	1.F.B.	52	1	65.00
08	Tony Jenkins	Glastonbury	1.F.B.	54	1	65.00
12	Colin G. Angus	London	1.F.B.	56	1	65.00

**BOOKS OCTOBER ~ DECEMBER 1997****BOOKS SOLD IN U.S.A.**

<b>1997 OCTOBER</b>		<b>DISTRICT</b>	<b>BOOK</b>	<b>Serial No.</b>		<b>COST</b>
17	John A. Thomas	Rochester	11B	3	1	100.00
17	John A. Thomas	Rochester	11A	5	1	80.00
17	John A. Thomas	Rochester	10A	6	1	90.00
17	John A. Thomas	Rochester	10	5	1	65.00
23	John A. Thomas	Rochester	FLYER 1		4	40.00
<b>1997 DECEMBER</b>		<b>DISTRICT</b>	<b>BOOK</b>	<b>Serial No.</b>		<b>COST</b>
27	Leonard De Fazio	New York	1.FB	55	1	65.00

**BOOKS OCTOBER ~ DECEMBER 1997****BOOKS SOLD IN AUSTRALIA**

<b>1997 OCTOBER</b>		<b>DISTRICT</b>	<b>BOOK</b>	<b>Serial No.</b>		<b>COST</b>
01	John House	Perth	11B	2	1	100.00

To this value we have to add postage and packing - even this total only represent child's pocket money to the actual cost which it takes me to be able to send you this information

Books 1, 1A, !B full blown versions now released directly from me, these have never been released before, as no publisher would print them

AUSTRALIA

DATE 1997	NAME OCTOBER	DISTRICT	VIDEO NO.	HOW MANY
02	John House	Perth	3	1

U.S.A.

DATE 1997	NAME OCTOBER	DISTRICT	VIDEO NO.	HOW MANY
23	John A. Thomas	Rochester	3	1

RUSSIA

DATE 1997	NAME OCTOBER	DISTRICT	VIDEO NO.	HOW MANY
13	Vera Medvedkova MIR Program	Moscow	4 S	1
13	Valery Ryumin Manager MIR Program	Moscow	4 S	1

Well, that is not much information released by D.I.S.C. INC. during the last quarter of 1997. Very few meetings held - and it appears that I am left to do all the work - I can not help this view if those who think that they are doing something to help, do not put in their report upon the matter.

To the cost of the books, I must add the cost of £170.38 on the 29. November 1997, for one photoconductive replacement kit for this printer

Transport cost on behalf of D.I.S.C. INC. during this quarter in question came to £394.01, other cost like petrol has not been included in this report.

No costing for the work hours spent on D.I.S.C. INC. during this quarter - I know of no one who works for nothing, anything from 22 hours 7 days a week. That could represent a cost of £770.00 per week at £5.00 per hour which would be a rather cheap cost.

I know that you don't want to know what it cost me to undertake these books, you want them cheap or free, so do the official people want them free also, and each one I have to send out, is taking the bread and butter from my mouth.

These books are the PR of D.I.S.C. INC. they must be good, well detailed in what is involved, what is required and the progress which is being made in our objectives. Every care is taken by me to present this information, accurate and precise, and as clearly as humanly possible at the lowest price, to this end I have laboured - and I trust I have succeeded in this objective



**PROFESSIONAL NURSE****UP DATE****INTRAVENOUS THERAPY****Legal, Professional and ethical issues****1 Starship Explorer Professional Nursing**

which also will apply to all Space Project Wanderer Units hospitals to be

will function as the scope of Professional Practice makes clear

**2 Should at any time it become clear that a certain practice is not of value to the treatment of the case**

alternative treatment will be researched to defined if or if not, it would be of any help in the case concerned

**3 Nurses within Space Project Wanderer and more so, those that will be employed within the staff of Starship Explorer**

must acknowledge any limitations in their knowledge and competence and 'decline any duties or responsibilities

unless able to perform them in a safe and skilled manner'

**4 There are four areas of accountability within Space Project Wanderer for practitioners**

all of which are applicable to IV therapy :

**(1) To the public**

through criminal law

**(2) To the patient**

through civil law

**(3) To the employer**

through the contract of employment

**(4) To the profession**

through Prof. Searl

**5 Nurses are directed by The Code of Professional Conduct DISC1990A**

- to safeguard and promote the interests of individual patients and clients
- 6 This requires nurses to take on the role of patient advocate when appropriate
- and includes providing support if the patient refuses treatment or care or withdraws consent for such treatment DISC1990
- 7 Consent is an essential requirement in health care and without it
- a patient could lodge a complaint of battery or assault
- 8 Please note
- that I myself, do not support this action of a patient who refuse treatment
- under the terms of DISC1990 any patient who refuses treatment are automatically discharged from the medical unit regardless, instantly
- My task is to save lives and not play silly buggers
- and I shall not tolerate my staff having to risk complaints of battery and assault where they are giving their skills to save their lives
- any patient who cannot appreciate what is being done to help them do not deserve being helped
- 9 The patient or client's decision whether or not to agree to treatment must be based on adequate information (DISC1990)
- 10 In some emergency situations
- the law does allow medical practitioners to provide treatment without consent
- providing the practitioner is acting in the patient's best interests
- 11 D.I.S.C. INC, interests at all times is in the welfare of its staff once flight operations commences
- 12 In some hospitals settings
- such as intensive care
- it has become common practice to request consent from a patient's next of kin



- 13 This action has no basis in law, however

### INFECTION CONTROL

- 14 The use of IV therapy is frequently complicated by a variety of local or systemic infective complications

- 15 The hands of health care workers have been shown to be the main route of transmission for nosocomial infection

- 16 Hand washing is therefore of great importance as an infection control technique

- 17 The use of hand rubs such as Hibisol has gained popularity in areas where hand washing between every activity is not always possible

- 18 This offers a practical solution but does not negate the need for regular hand washing

- 19 The objective of cannula site management is to prevent accumulation of moisture while keeping the cannula secure

- 20 A poorly secured cannula causes discomfort for the patient and increases the risk of thrombophlebitis and its associated complications of infection and pain

- 21 Sites should be inspected regularly for signs of :

(1) phlebitis

(2) Infiltration

(3) leakage

(4) infection

(5) bleeding

- 22 Should any problems be identified

the cannula should be replaced

- 23 A transparent dressing will facilitate observation of an IV SITE

- 24 The use of occlusive dressings is associated with increased accumulation of moisture under the dressings

which encourages microbial growth

- 25 This increases the possibility of local infection and is associated with an increased incidence of septicaemia in patients with central venous catheters

26 Gauze therefore remains a popular choice for an IV dressing as its absorbent properties maintain dryness at the entry site

27 If a transparent dressing is selected

it must be semi - permeable to prevent build - up of moisture

28 On Starship Explorer I recommend a dressing such as IV 3000 should be used rather than occlusive wound dressing such as OpSite

29 The incorrect use of a wound care product on an IV site could predispose patients to line - associated septicaemia and could be viewed as negligent by me

30 **(SEPTICÆMIA)** (sep - tis - e' - me - ah)

The presence in the blood of bacteria and their toxins

31 The symptoms are :

(1) a rapid rise of temperature

(2) which is later intermittent

(3) rigors

(4) sweating

(5) all the signs of acute fever

32 It is treated by antibiotic drugs which have to a great extent reduced the development of this condition

33 When re - dressing an IV site

an aseptic technique should be maintained and the dressing applied should be sterile

34 Frequency depends on the type of dressing used and the condition of the patient

35 Gauze dressings need to be changed each time the site is inspected usually at every drug administration

or if the site is wet

36 Transparent dressings can safely be left on peripheral cannulae for the duration of catheter inserting

37 Providing the cannula is replaced every 48 ~ 72 hours



38 The time that a transparent dressing can safely be left on a central venous catheter is as yet undetermined

39 In practice

this depends on the site and conditions of the patient

40 For example

transparent dressings on internal jugular vein sites frequently fail due to hair growth or sweatiness in febrile patients

41 **(JUGULAR)** (jug' - u - lar)

Relating to the neck

42 **JUGULAR VEINS**

Two large veins in the neck

which convey most of the blood from the head

43 Dressings over the subclavian site in relatively well patients in the community often remain intact for several days

44 **(SUBCLAVIAN)** (sub - kla' - ve - an)

Beneath the clavicle

45 **(SUBCLAVIAN ARTERY)**

The main vessel of supply to the upper limb

46 An IV infusion or in situ cannula should be viewed as a 'closed system'

47 Intravenous sites are portals of entry into the circulation and as such

should not be opened unnecessarily or without precautions

48 Latex injection sites

whether on giving - sets or on an injectable hub

should be cleaned with 70 % alcohol and allowed to air dry before use

49 Three - way taps should not be routinely included in an IV infusion as they increase the incidence of infection

- 50 If the use of such a tap is unavoidable  
it should be externally cleaned with 70 % alcohol prior to access and  
when not in use  
should remain covered
- 51 The incidence of intrinsic contamination of IV fluids is now rare  
however  
24 hours remains the maximum recommended time that an IV fluid  
bag should remain in use
- 52 Blood transfusions are an exception and should not be used for longer  
than four hours
- 53 While lipid emulsions should not hang for more than 12 hours
- 54 There have been three major trials to research the optimal time  
interval for the replacement of IV giving sets
- (1) Josephson et al, 1985
  - (2) Snyderman et al, 1987
  - (3) Maki et al, 1987
- 55 The data recommend that giving - sets be changed every 72 hours  
except for total parenteral nutrition (TPN)  
which should be changed every 24 hours

I will end this debate at this point until the next time, where I will extend this discussion.

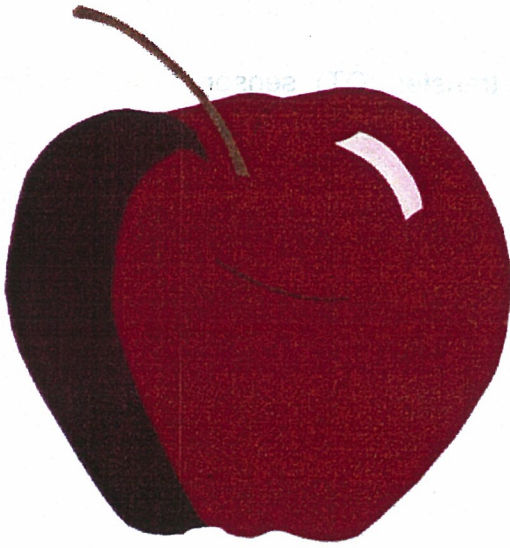
Right at the commencement of any major project the need to defined how each part of that program will function is vital to its designed concept

Every possible problem must be aired and evaluate to obtain the best solution to all possible problems which might or will show its head

To design and construct a space vehicle to undertake a 2 to 3 year non - stop exploration of Mars, without knowing precisely what problems might arise, is lunacy of the highest order

The purpose of these books are to show you the problems and the solutions which I recommend at this stage of research and development across the spectrum of this technology - the research being carried out may change some of these statements as we gain more experience upon that subject.



**SENSORS****SO WHICH OF THESE IS THE SENSOR ?****Actually, it's both of them****Or anything else for that matter**

- 1 In one of the biggest sensing breakthroughs for years a small U. S. company has done the **IMPOSSIBLE** by finding a way to make almost anything into a capacitive sensor
- 2 There are so many possibilities thrown up by Quantum Research Group's 'Qprox' system that it's hard to know where to start
- 3 Originally designed to make a water tap into a proximity sensor and to ignore the effects of water splashes
- 4 its potential extends to touch panels you don't actually need to touch plants which can signal they need watering and countless other ideas
- 5 In effect the people behind Qprox have cracked capacitive sensing which until now has been a slightly 'wild' technology restricted in its application
- 6 So I waved at the office rubber plant which greatly appreciated my gesture of friendliness

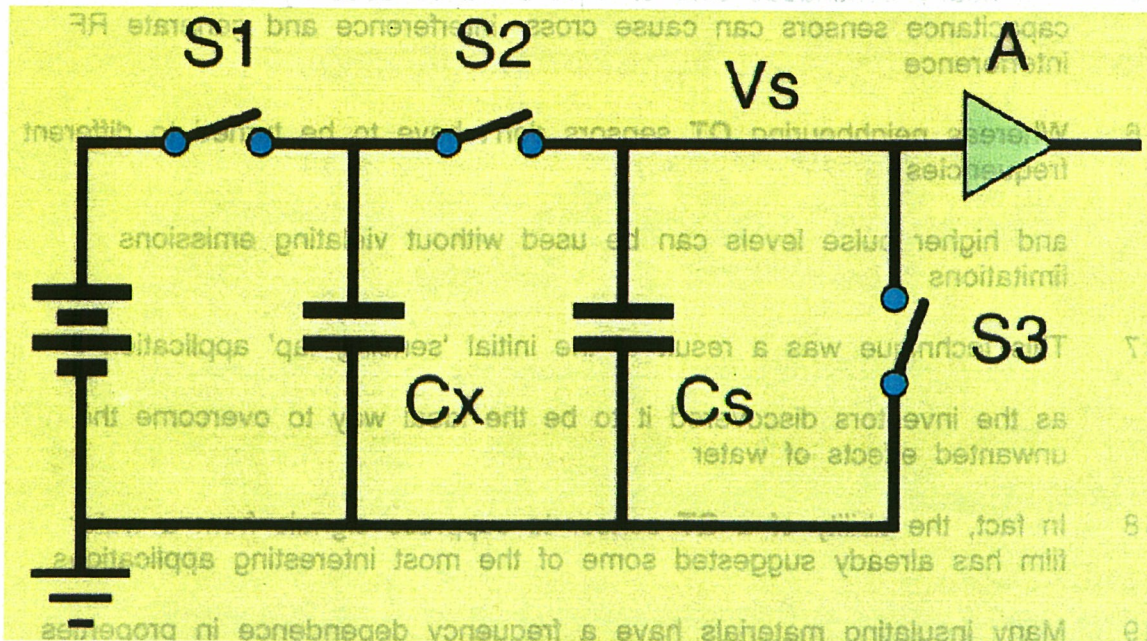
- and in respect and gratitude no doubt it made my lights come on
- I was impressed
- 7 I would most likely call it a charge transfer (QT) sensor
- 8 Connect an object to the system
- 'teach' it the capacitive state
- a single button press
- and any changes
- such as the approach of a hand
- will trigger the system
- 9 If the intrusive object is, say
- a few centimetres away at the time of the teaching
- the system will be triggered when something gets that close
- 10 It's as simple as that
- 11 So I tried it on Willie, and with perseverance waited for the first female to come close, after some hours, one did come but the bloody thing did nothing to switch me on
- It must have fallen to sleep waiting, like this equipment does all the time
- which appears to suffer from sleeping sickness
- 12 All you need is the teaching kit
- (1) a PCB and some PC based software
- (2) a 'cloning adaptor
- so that you can make further 'copies' of a sensor you've 'taught'
- 13 Alternatively, the sensors can be made separately if your requirements are seriously large numbers
- in which case the cost comes down to just a few pounds a time
- 14 The QT sensor measures capacitance in a pulse
- or a short burst of pulses
- then rests for a usually randomised dead time



- so that the spectral characteristic of the output is a form of 'spread spectrum' signal
- 15 The nearly continuous sine or square waves used by conventional capacitance sensors can cause cross - interference and generate RF interference
- 16 Whereas neighbouring **QT** sensors don't have to be turned to different frequencies
- and higher pulse levels can be used without violating emissions limitations
- 17 This technique was a result of the initial 'sensing tap' application
- as the inventors discovered it to be the ideal way to overcome the unwanted effects of water
- 18 In fact, the ability of a **QT** sensor to suppress signals from a water film has already suggested some of the most interesting applications
- 19 Many insulating materials have a frequency dependence in properties such as dielectric constant
- and the **QT** sensor can obtain a signal curve which is characteristic of the underlying material
- 20 For example
- It can be used to investigate the moisture content of paper pulp
- the presence of contamination in fuel
- or even the ripeness of fruit
- 21 More straight forward applications include low cost touch controls
- which may not even require touching
- 22 Use a cable of almost any length as the **QT** sensor
- and people or vehicles passing over or by the cable will provide an immediate response
- 23 Or as part of a vehicle
- the **QT** sensor becomes an ideal and affordable method of presence detection
- in bumpers for instance
- 24 Don't forget that the technology can offer more than simple go / on - go

detection

## 25 A simplified circuit model



### HOW THE QPROX WORKS

This simplest possible implementation of the concept uses switches S1 and S2

inexpensive **MOSFETs**

operating in time sequence

S3 discharges the detector capacitor Cs before each sample

which can be a 'burst' of switching

subsequently averaged

26 So whilst it's an obvious application to use the **QT** sensor as a dead man's handle

triggering an alarm when the operator lets go

with a little development work it's probably quite possible to detect a loss of grip strength so you can tell when an operator is drifting off

27 The wire under the floor could be an ideal low cost part of the control system in a lift

28 A simple rod in a tank will give a fill level indication without headaches

29 Wires under hoses will detect leaks readily

30 And multiplex two or four Qprox channels from one sensor to make a



2D or 3D 'control surface'

31 So what are the limitations of this technology ?

32 Very few given the huge potential

33 Although the demonstrations are show stopping for serious industrial applications it'll be necessary to consider many environmental effects such as the ground reference and connection impedance's

34 So there's a little more to it than just hooking up the system and pressing the button

35 Qprox is already being investigated and used for applications such as the tap

where it not only senses the presence of hands

but can be programmed to adjust water temperature by touching the spout

and as a possible replacement for the mouse in laptop computers

where users only have to wave their figures above the keyboard to move the pointer

36 When a charged capacitor is connected to an uncharged one

some of the charge will be transferred with no net loss

37 This is more or less what happens with the S.E.G. function a charge is generated by the rare earth which has been selected for its construction

38 This then, will pass some of its charge to the rest of the system which has been discharged with no net loss

39 If the second capacitor is a sampling one and is large enough

almost all the charge is transferred

and the unknown capacitance can be determined using a voltage reference and switches to make the transfer

40 You might think that as I'm dealing with sub - picofarad capacitance's here

the voltage representing the capacitance would be too small to read reliably

but it's not the case

- 41 Noise can be averaged out by rapidly cycling the switches
- MOSFETs and because there are no active gain components there is only negligible front end noise
- 42 Noise of any significance would come from external induced sources but quick switching minimises this
- 43 Conventional capacitance sensors which modulate the sense element essentially 100 % of the time are continuously exposed to interference
- 44 And with modern op amps and ADCs it turns out to be easy to get differential resolutions to 0.01 pF
- 45 Here is another class of sensing device



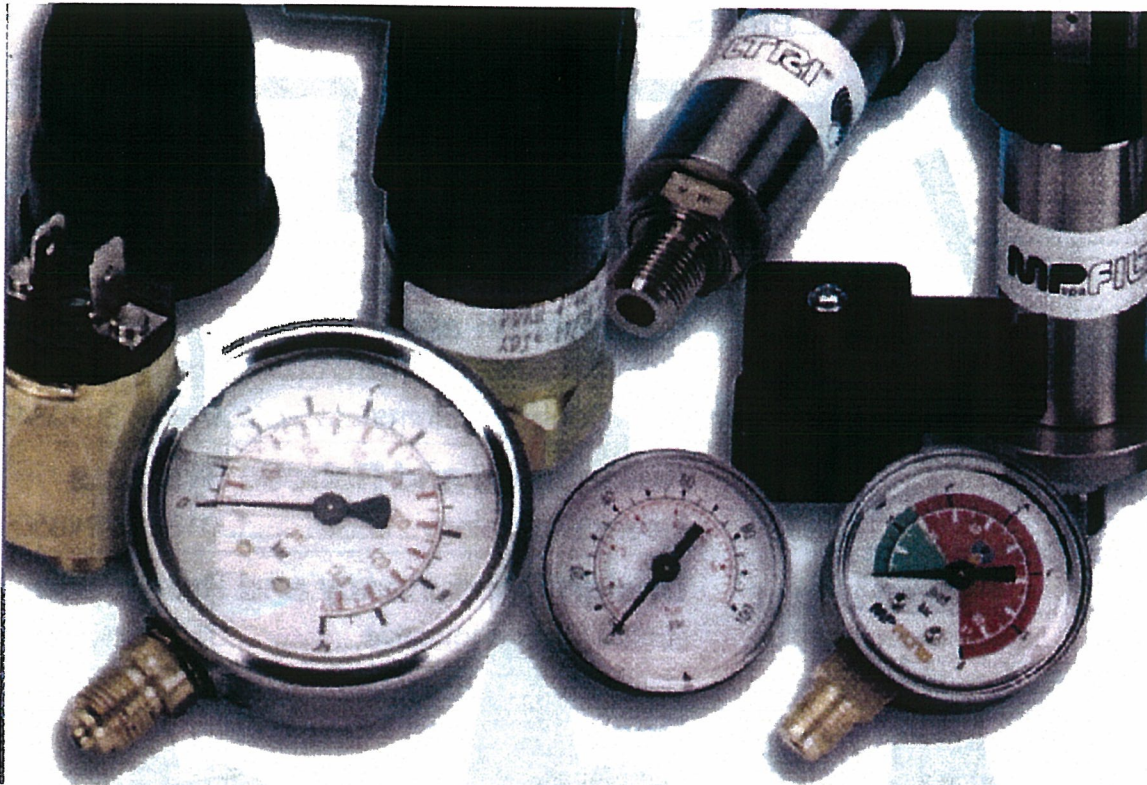
First sensor is in a SA/SB Package

Second sensor is in a SC Package

- 46 Both are class as an adaptive Threshold Sensing - ATS610/611
- 47 Easy to use, optimised magnetic circuit
- 48 There is much which I can write upon these products but they are to be tested by me shortly, I trust
- 49 You will be hearing more news upon this matter as I get on with the task of testing them for our requirements

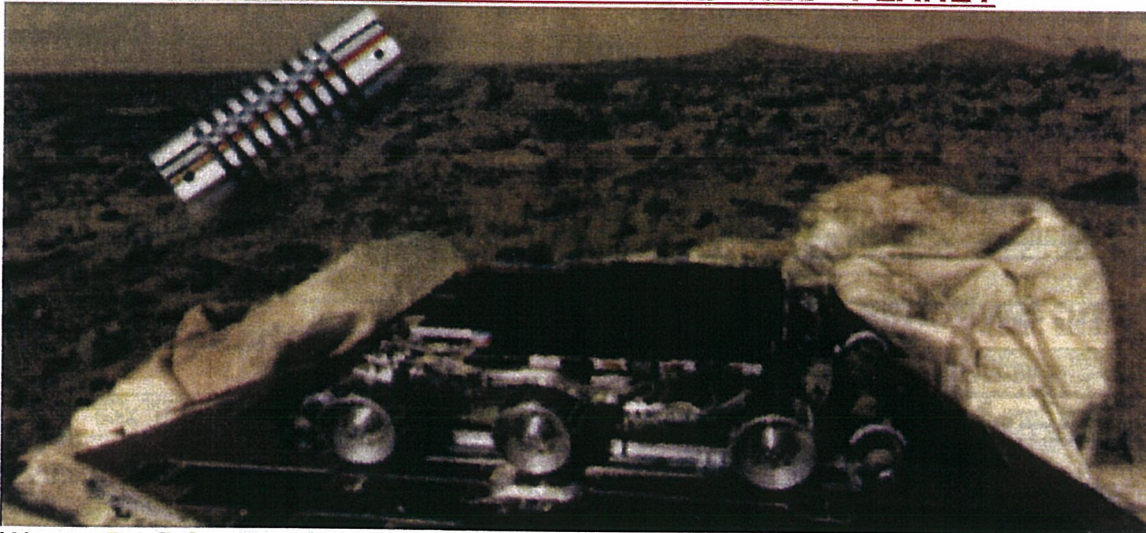
My world of today is absolutely different to my world of yesterday thanks to inventors like me who know absolutely nothing about what can't be done and get on with doing it for you to benefit from - even if you don't deserve it





Through future books you will see what products I shall select and use within the SPACE PROJECT WANDERER

### IT'S HOT NEWS FROM THE RED PLANET



We at D.I.S.C. INC. go to great lengths to bring you the TRUTH and the best pictures

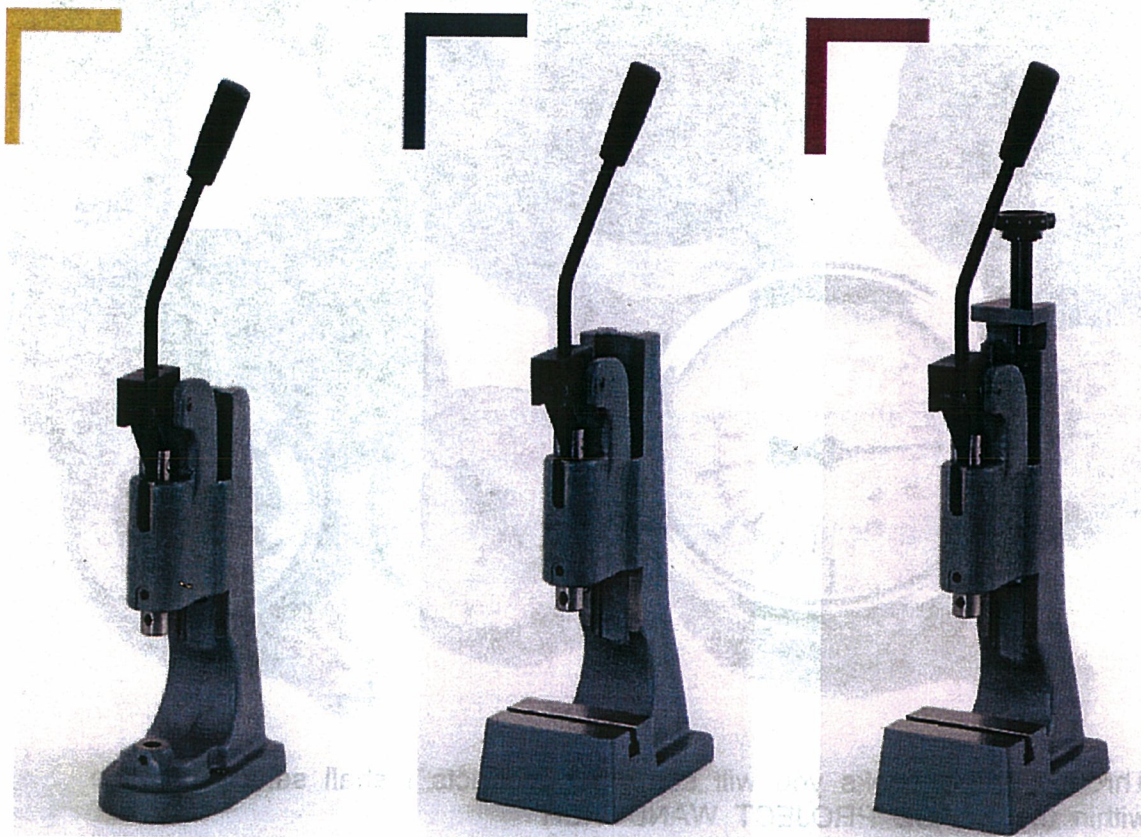
Our photographer grab a shot on Mars, and found alien technology present

The question is "what is it" ?

Is it real ?

If you want to know the facts, then read my future books for the full details

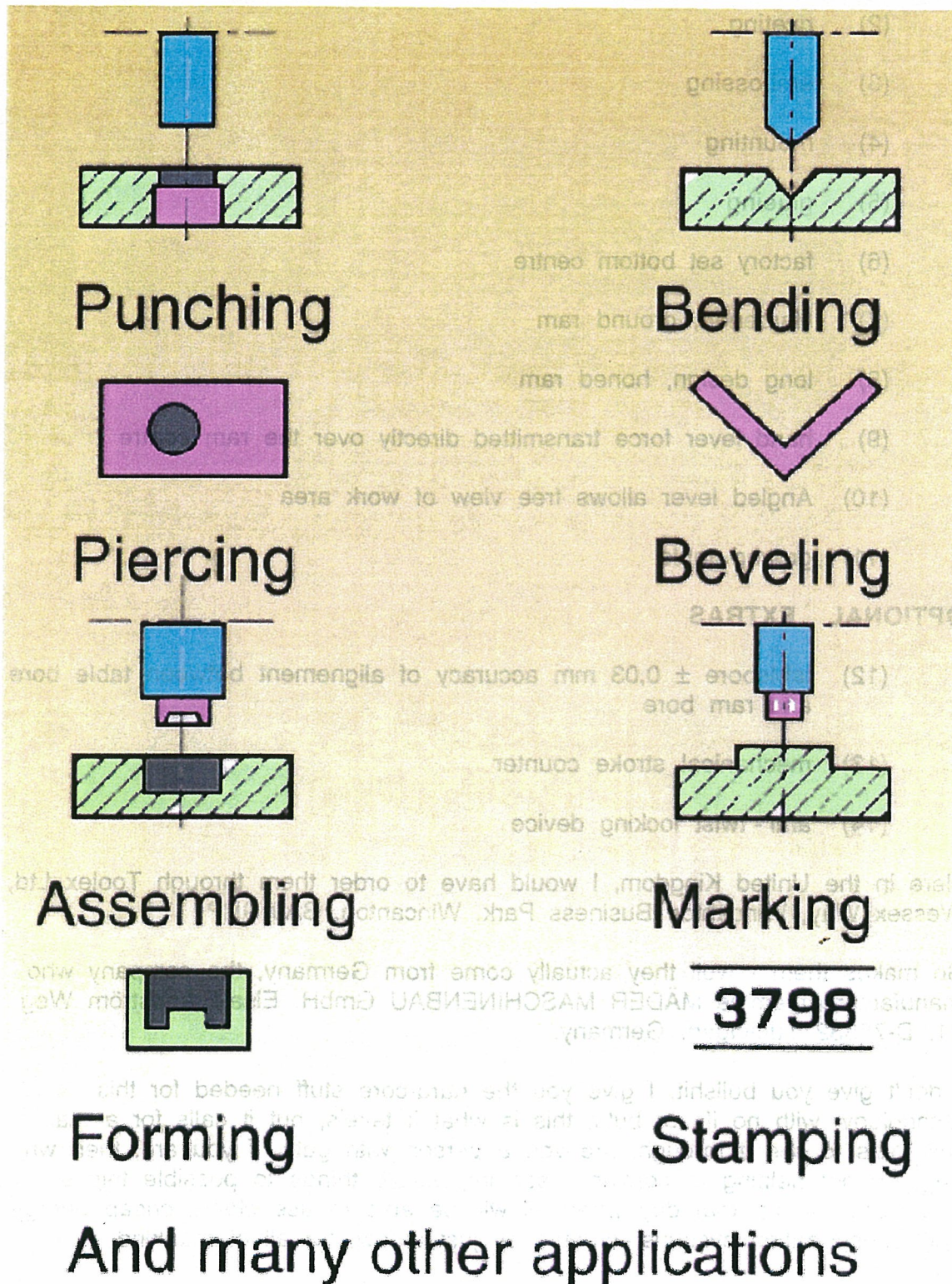


PRESS REQUIRED 1997**APK B 1****APK T 1****APK T 1 HV**

<b>Model</b>		<b>APK B 1</b>	<b>APK T 1</b>	<b>APK T 1 HV</b>
Capacity	kN	5,0	5,0	5,0
	kgf	500	500	500
Working Stroke	mm	40	40	40
Clearance	mm	63	63	63
Daylight	mm	38-112	40-135	40-135
Table Size	mm	-	100x65	100x65
T-Slot width to DIN 650	mm	-	10	10
Ram Bore Øxdepth	mm	10 <sup>H7</sup> x25	10 <sup>H7</sup> x25	10 <sup>H7</sup> x25
Ram Ø	mm	20	20	20
Space required	mm	90x160	110x160	110x160
Weight	kg	9	9	10
<b>Extras</b>		<b>please mention when ordering</b>		
Table Bore 12 <sup>H7</sup>	mm	Standard	TB	TB
Locking Device		VS	VS	VS
Stroke Counter		Z	Z	Z

Toggle presses achieve their maximum force at the end of the stroke. These toggle pressures are employed where the full force is only used over a short length at the end of the working stroke





Troggle Hand Press	APK B 1	Cost	£461.51	New
Troggle Hand Press	APK T 1	Cost	£401.08	New
Troggle Hand Press	APK T 1 HV	Cost	£461.51	New

such as

(1) Punching



- (2) riveting
- (3) embossing
- (4) mounting
- (5) glueing
- (6) factory set bottom centre
- (7) Hardened, ground ram
- (8) long design, honed ram
- (9) hand lever force transmitted directly over the ram centre
- (10) Angled lever allows free view of work area
- (11) ground table

#### OPTIONAL EXTRAS

- (12) tablebore  $\pm 0,03$  mm accuracy of alignment between table bore and ram bore
- (13) mechanical stroke counter
- (14) anti - twist locking device

Here in the United Kingdom, I would have to order them through Toolex Ltd, Wessex Way, Wincanton Business Park, Wincanton, BA9 9RP

So makes them - well they actually come from Germany, the company who manufacture them is MÄDER MASCHINENBAU GmbH. Elsa-Brandström Weg 11. D-78532 Tuttlingen. Germany.

I don't give you bullshit, I give you the hard-core stuff needed for this technology, with no ifs or buts, this is what it take's, but it calls for a man with guts to see it through, are you a person with guts, if you are, then why are you not helping to convert these impossible things to possible things thus speeding up that day when all will be able to use clean, cheap energy and transportation systems - created by just a few, for all of mankind

How will D.I.S.C. INC. U.K. will appear in a few years time ?

Will it succeed in its objectives ?

Will we be around long enough to see success ?

The weather is meeting my predictions 100 %

Strange but True



**DIRECT INTERNATIONAL SCIENCE CONSORTIUM****UNIT : SWEDEN**

<b><u>SUBJECT</u></b>	:	<b><u>UPDATE</u></b>
<b><u>DATE</u></b>	:	<b><u>1997-11-30</u></b>
<b><u>TO</u></b>	:	<b><u>PROF. J. R. R. SEARL</u></b>
<b><u>FROM</u></b>	:	<b><u>MATHIAS BÅGE</u></b>

***and the rest of the team***

Dear Prof. Searl.

1 Things are finally beginning to move forward again !

2 So, it's time for an update

3 Delivered :

(1) magnets for the ring

(2) and more roller segment magnets

4 Pheew !

In the middle of July

I placed the order for five AlNiCo ring magnets

5 And FINALLY, we now have :

(1) 2 pieces

good AlNiCo ring magnets

ground to size

OD : 172-35 mm @  $\pm 0.05$  mm tolerance

ID : 161-61 mm

H : 60 mm

6 (2) 3 pieces

looking good AlNiCo ring magnets

NOT ground to size

exact dimensions unknown

7 (3) 180 pieces

sintered NdFeB roller segment magnets

the same kind they've delivered previously

OD : 28-138 mm @  $\pm 0.05$  mm tolerance

ID : 22.82 mm

H : 6-6 mm

8 Poor Euromag

and their U.K. subcontractor

Euromag actually received 4 (four) different shipments of magnets from the U.K.

9 The first two shipments were scrapped almost directly

10 The third batch had 1 (one) good magnet in it

11 The one sent to Martin Colborne last month

12 (Prof. Searl, reports that he had not seen or knew anything about it, this came as a shock, as all had been instructed that nothing must be done unless approved by me - but they all went ahead behind my back with their own views which has resulted in a massive loss in cash and time)

13 The fourth (last) shipment had the remaining 4 (four) rings in it

(1) one ground

(2) three NOT ground

14 AiNiCo

obviously

is a very difficult material when you want large rings made from it

15 Grinding takes ages

One week per ring

and is costly

£250.00 each

16 22 kg of Neodymium Nd. 60 ingots from China

25 Ingots



- (1) to be turned into rods
- (2) cut into discs for roller segments

17 They were shipped to the U. K. by air last week

18 Some one just has to pick them up from customs

19 Request for a quote on NdFeB ring magnets injection moulded around PTFE ring

20 Martin Colborne and I have discussed other materials for this ring magnets

and we've decided to give the following a try

**NOTE : again Prof. Searl was not involved again**

**It appears that others know more than I do !**

21 (1) Things needed

(a) PTFE rings

glass filled, density 2.2

are machined to the dimensions

**OD : 161-61 mm**

**ID : 120-595 mm**

**H : 60 mm**

22 Optionally with tiny grooves

from coarse turning on the **OD**

23 (b) a tool

for injection moulding

inside which a PTFE ring can be mounted

24 (c) nylon based MagneQuench

type 502

granulate for injection moulding

density 5.4 on finished magnet

25 (2) The production process

(a) a PTFE ring is mounted by hand in the open tool

26 (b) the machine closes the tool and injects MagneQuench  
around the PTFE ring to form a nylon bonded NdFeB  
magnet

27 When cooling

the MagneQuench will shrink 0-3 to 0-4 percent

28 However

since the PTFE ring yields to the pressure from the  
shrinking magnet

29 One can still expect to be able to remove the part from  
the tool without resorting to violence

30 This way

optionally aided by the above mentioned tiny grooves

31 The magnet will cling to the surface of the PTFE ring  
and the two rings can then practically be seen as one  
solid part

32 (c) The tool is opened and the part removed

33 By the way, MagneQuench is very easy to machine

34 A quote request will be sent to Euromag during the next week

35 MAGNETISER

Euromag have ignitrons for sale

36 An ignitron is a gas plasma switch

reminiscent of an S.C.R.

(1) They are extremely sturdy

(2) thousands of amps at thousands of volts for long periods

(3) And there're inexpensive too

around £250,00 each

37 I'm looking into a magnetiser design which will involve a few of these



- 38 A novel idea of mine is to use a huge capacitor bank for fast discharge of the main and compressor coils

Yours

Mathias Båge  
Stockholm  
Sweden

This ends his report which does not meet the requirements of a R & D report but then everything had been contacted out. All this undertaking was done without any knowledge, on my part. As he, Martin and Ken including Geron had been told by me on the phone that any future projects had to be approved by me - yet they went ahead as if I don't exist - results another failure like before, but not quite as bad, but bad enough



Left : Martin Colborne  
Right : Ken Gibbs

Martin who took upon himself the absolute responsibility of this undertaking and Ken who acted as his mate, here in the United Kingdom

I am waiting now to see these rings and rollers for myself - more so because Martin had told me that they were the correct weight and size and perfect made, while Geron reported they were not

But this condition which appears all over the world, everyone wants to be first - Facts - no one will be first - because there are trying to run before they can walk

I am not stating that had I been involved with this order, that it would have worked - but at least it would have been perfectly made and all that would have been left to do, would have been to get that magnetic field correct

=====

There's no such thing as a bad Picasso, but some are less good than others





LEFT: Mathias Båge of Sweden  
RIGHT: Geron of Germany

---

FACTS SEPTEMBER 3, 1981



Further details of Sony's new solid state camera, which completely does away with conventional chemical film have been revealed

The solid state camera, called the Mavica (for magnetic video camera), will be launched in Japan within two years. It is about the same size as a conventional 35 mm camera and will sell for about £300.00.

The Mavica uses a combination of charge coupled device (CCD) and palm-size revolving magnetic disc instead of film. The CCD picks up the image from the lens and converts it into the picture signal which is stored on the



disc

Colour pictures from the disc can then be displayed on a TV screen by attaching a playback unit, the Mavipac viewer.

The viewer will cost about £125.00 and the Mavipac discs, which will each store up to 50 pictures, about £1.50.

The electronic film cartridges have the advantage that they can have their images erased and then re-used.

The Mavica can also take pictures much faster than a conventional camera. The shutter can be set for recording a single frame or for recording a rapid sequence of pictures or for continuous filming.

Picture quality is poorer than a conventional camera, but Sony is working on it. It is also working on a printer which will produce real colour pictures from the images on the TV screen.

=====

D.I.S.C. AUSTRALIA CALLING

**DIRECT INTERNATIONAL SCIENCE CONSORTIUM**

**SECTION : AUSTRALIA**

**SUBJECT** : **UPDATE**  
**DATE** : **24. NOVEMBER 1997**  
**TO** : **PROF. J. R. R. SEARL**  
**FROM** : **JOHN HOUSE**

Hi John

- 1 Yes, yes, I know I'm a bit slack when it comes to keeping in touch
- 2 The information on suppliers of Nd and NdFeB is as follows

**Company** : Shenzhen Metals & Minerals  
Import & Export Corp.

**Contact Name** : Mr. Ling Chun-ming

**Address** : Minmetals Building  
No. 61 Chunfeng Road  
Shenzhen  
China 518001

**FAX** : 86-755-2220146

**WEB PAGE** : <http://www.inc.com/users/minmetals.html>

**E-Mail address** : minmetals@nenpub.szptt.net.cn or  
ling@nenpub.szptt.net.cn

- 3 Look them up, I think you will be quite surprised at the prices
- 4 Kim McGregor has settled on the design of the magnetiser so hopefully that will get built within the next few weeks
- 5 Having a bit of trouble with the moulds for the segments
- 6 Were using stainless steel found to be too soft
- 7 Now going to use hardened steel
- 8 Been so damn busy at work I've only had the weekends to do anything
- 9 I've had a good talk with the guys about getting you out here for a holiday for say a couple of months at least
- if not more
- and they are very keen on the idea
- 10 Anyway keep your chin up, we will get there yet "



**JOHN HOUSE**

1997 should had been a great year - the money was there, but not here - that was the problem - the wrong people were doing the work, not me - so another year has been wasted, both in time and money - scientific reports which are needed, before we can get the right kind of backing that is required for success.

But they do not understand this urgency - they only think that making the ring and rollers are all that we need, to get that money - the past has shown different - its the scientific report that does it, with the good PR backing it.

I, Prof. John Roy Robert Searl, hereby confirm that the contents of this book are absolute correct to my understanding at this time of writing.



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## THE AUTHOR



**PROF. JOHN ROY ROBERT SEARL**

Date of Birth : May 2, 1932      Place of Birth : Wantage, Berkshire, England  
Hobbies : Flying, Writing, making videos, studying electronics, and science  
         including medicine and medical research, nature study  
         designing and constructing, and modelling  
         You name it - I love it - as long as its for real