

MSI PATCH SHEET

Smith, Wilbert B Sarbacher, Robert

Sept 15-1950

Rotes on interview through AC. Brenner with OrRobert / Sarbacher.

WBS:

Pam doing some work on the earth's magnetic field as a source of energy, and I think our work may have a having on the flying Saucero.

P15

Allat do you want to know.

1488

I lane read Seully's fook on the rawers and would like to know how much afit is true.

715

The facts reported in the book are sufitantially correct.

088

Then the rancers do exist?

915.

Go they exist.

WBS

Do they operate as Seully suggests on magnetic principles?

Me have not been able to dylicate their performance PIS Do thy come from some other planet? NOS All me hnow is, we didn't make them, and all putty certain they slidtist originate on the earth. RIS I understand the whole subject of Saucers is classified NV138 Mes it is classified two points RIS. higher even than the H-bomb. In fact it is the most highly classified subject in the US Government at the present May I ask the wason for the classification. NOBS you may ask, but I can't tell **PIS**

Was

2, there any way in which? can get more information, particularly as it might fit in with our own work.

RIS.

Isuppose you could be cleared through your own Defense Department and I am putly sure arrangements could be made to exchange information. If you have anything to contribute we should be glad to talk it over, but I can't give you any more at the present time.

Note: The above is soritten out from memory following the introview. I have tried to helpit as nearly verbattum as joined.

DEPARTMENT OF TRANSPORT

INTRA-DEPARTMENTAL CORRESPONDENCE

OTTAWA, Ontario, November 21, 1950. SUBJECT Goo-Magnetics (R.ST.)

NEWORANDUM TO THE CONTROLLER OF TELECOMMUNICATIONS:

For the past several years we have been engaged in the study of various aspects of radio wave propagation. The vagaries of this phenomenon have led us into the fields of aurora, cosmic radiation, ethospheric redio-activity and geo-magnetism. In the case of geo-magnetics our investigations have contributed little to our knowledge of radio wave propagation as yet, but nevertheless have indicated several avenues of investigation which may well be explored with profit. For example, we are on the track of a means whereby the potential energy of the earth's magnetic field may be abstracted and used.

On the basis of theoretical considerations a small and very crude experimental unit was constructed approximately a year ago and tested in our Standards Laboratory. The tests were essentially successful in that sufficient energy was abstracted from the earth's field to operate a voltmeter, approximately 50 milliwatts. Although this unit was far from being self-sustaining, it nevertheless demonstrated the soundness of the basic principles in a qualitative manner and provided useful data for the design of a botter unit.

The design has now been completed for a unit which should be salf-sustaining and in addition provide a small surplus of power. Such a unit, in addition to functioning as a 'pilot power plant' should be large enough to permit the study of the various reaction forces which are expected to develop.

We believe that we are on the track of something which may well prove to be the introduction to a new technology. The existence of a different technology is borne out by the investigations which are being carried on at the present time in relation to flying saucers.

While in Mashington attending the NARB Conference, two books were released, one titled "Behind the Flying Saucor" by Frank Scully, and the other "The Flying Saucers are Real" by Donald Keyhoe. Both books dealt mostly with the sightings of unidentified objects and both books claim that flying objects were of extra-terrestrial origin and might well be space ships from another planet. Scully claimed that the preliminary studies of one caucar which full into the hands of the United States Government indicated that they operated on some hitherto unknown magnetic principles. It appeared to me that our own work in geo-magnetics might well be the linkage between our technology and the technology by which the saucers are designed and operated. If it is assumed that our generation investigations are in the right direction, the theory of operation of the caucers becomes quite straightforward, with all otherved features explained qualitatively and quantitatively.

I made discrept enquiries through the Canadian Embassy staff in Washington who were able to obtain for me the following information:

- The matter is the most highly classified subject in the United States Covernment, rating higher even than the H-bomb.
- b. Flying saucers exist.
- c. Their modus operandi is unknown but concentrated effort is being made by a small group headed by Doctor Vannevar Bush.
- The entire matter is considered by the United States authorities d. to be of tremendous significance.

I was further informed that the United States authorities ere investigating sions quive a number of lines which might possibly be related to the suncers guch as nental phonomena and I gather that they are not doing too well since they indicated that if Canada is doing snything at all in Goo-magnetics they would welcome a discussion with suitably accredited Canadians.

While I am not yet in a position to say that we have solved even the first problems in geo-magnetic energy release, I feel that the corrolation between our basic theory and the available information on Equence checks too closely to be more coincidence. It is my honest opinion that we are on the right track and are fairly close to at least some of the erswers.

Hr. Wright, Defence Research Board limison officer at the Consdian Embassy in Washington, was extremely anxious for me to get in touch with Doctor Solandt, Chairman of the Defence Research Board, to discuss with him future investigations along the line of geo-magnetic onerzy release.

I do not feel that we have as yet sufficient data to place before Defence Research Board which would enable a program to be initiated within that organization, but I do feel that further research is necessary and I would prefer to see it done within the frame work of our own organization with, of course, full co-operation and exchange of information with other interested bodies.

I discussed this matter fully with Doctor Solendt, Chairman of Doffines Research Peard, on November 20th and placed before him as much investable as I have been able to gother to date. Doctor Solendt agraed that work on goo-magnatic energy should go forward as rapidly as possible and offered full co-operation of his Board in providing laboratory facilities, acquicition of necessary items of equipment, and specialized personnel for incidental work in the project. I indicated to Doctor Solendt that we would profer to keep the project within the Department of Transport for the time being until we have obtained sufficient information to permit a complete assessment of the value of the work.

It is therefore recommended that a PROJECT be set up within the frame work of this Section to study this problem and that the work be carried on a part time basis until such time as sufficient tangible results can be seen to warrant more definitive action. Cost of the program in its initial stages are expected to be less than a few hundred dollars and can be carried by our Radio Standards Lab appropriation.

Attached heroto is a draft of terms of reference for such a project which, if authorized, will enable us to proceed with this research work within our own organization.

Doncery.

(W.B. Smith) Senior Radio Engineer

WMS/CC

goaling with of Rufme

1 mm to time

GD. W. F. Edwards 1,2/57

WE CONFIDENTIAL

PROJECT MAGNET

FURPCSE

This project is for the purpose of studying magnetic phonomena, particularly these phenomena resulting from unusual boundary conditions in the basic electromagnetic theory. There is reason to believe that such phenomena exist and that their discovery will ppen up a new and useful technology.

CHUMNIZATION

The initial organization shall be as small as practical can demposed of personnel who are used to working together, including so far as possible a variety of research abilities. Laboratory facilities are to be drawn from existing facilities as far as possible. Overall responsibility for the project shall rest with the engineer-in-charge, who shall delegate such responsibility to subordinates as may be required to carry out the project.

PROGRAM

The initial program shall include the following avenues of investigations, to which others may be added from time to time as may appear expedient.

- 1. Theoretical study of electromagnetic radiation assuming boundary conditions different from those upon which the conventional theory was developed.
- 2. Laboratory study of the mechanical forces associated with electron drift and electric currents in metalic masses.
- 3. Theoretical and laboratory study of magnetic domain resonance conditions in magnetic materials.
- 4. Investigation of the propagation of magnetic wave motion in magnetic materials.
- 5. Investigate the possibility of producing, in effect, a "sink" in a magnetic field.
- 6. Investigate the possibility of producing, in effect, single isolated magnetic poles.
- 7. Investigate the effects of a magnetic field on a rotating curviplaner metalic object.

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COORDINATION

Full coordination is to be maintained, within security regulations, with other groups working on parallel or associated problems. Project reports will be available on a classified basis to suitably accredited groups or individuals.

SECURITY

As in the case with most fields of research, it is impossible to assess the results in advance which may be obtained through this project. However, there exist certain suspicions that the lesser known and little emplored aspects of magnetism may hold the key to a new and significant technology. Consequently, it is intended to classify this work in its entirety until such time as it can be assessed for its impact on our civilization.

11 15936

5010-4 (DGTR)

MILLISTER C. Douglas ADHS EXTRA DGTR AD:ISP DCSTA DRD . CR

300 Slater Street Journal North Bullding Ottawe, Ontarlo MIA UCS

March 31, 1978

Mr. Arthur Bray 1187 Agincourt Road Ottava, Ontario K2C 253

Dear lar. Bray:

Thank you for your letter of February 6, 1978 addressed to the Honourable Jeanne Sauvé.

The Department of Communications does not have a file 6650-4 called "Project Hagner". However, we were able to determine that the late Hr. W.B. Smith's (of the Department of Transport) material on "Project Magnet" may be available from the Plenetary Sciences Section of the National Research Council. You may wish to write to this unit which is a part of the Herzberg Institute of Astrophysics.

We also understand that the only stipulation in victing this Exterial is that individuals are required to sign a statement to the effect that they will not release the names of any of the people mentioned in the material regarding U.F.O. sightings.

I hope this information will be of some help to you.

Yours very truly,

(for) Dr. John deMercado Director General Telecommunication Regulatory Service

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Inform. Apprv'l

Approb.

DRD Prep. by Pitp. par Aprv'd by

Copy: Dr. A.G. McNamara, N.R.C.

DGTRS

DGSTA

| SECURITY - CLASSIFICATION - DF SECURITE | |
|---|---------------------------------------|
| OUR FILE - N. REFERENCE | · · · · · · · · · · · · · · · · · · · |
| YOUR FILE - V. REFERENCE | |
| DATE | • |
| 28 March 1978 | 1 |

Request for Access to Files on UFOs

Attached is the request, to which I referred in our telecon of March 23, from Arthur Bray of Ottawa for release of files, originally transferred from DOT, on "Project Magnet". Since you are currently reviewing the two files involved (Confidential file No. 6650-4 and its unclassified companion No. 5010-4), it was agreed that you would prepare the reply to Bray's request, with copy to me and ADNSP, and co-ordinate with other Branches as appropriate.

Be flower

B.C. Blevis

Attach.

c.c. A. Casey-Stahmer

 $D \cup D$

MAR 30 1978

Ri. ____

MEMORANDIM TO DOOTOR O.M. SOLANDT:

I am returning herewith the draft article by Major Keyhoe, together with a proposed revision of the first five pages and a letter to Major Keyhoe.

I would suggest that the article, as revised, be scrutinized by others in the group and any amendments which they may suggest to be incorporated in the revision. I am quite sure that Major Keyhoe will accept the revised material in the same spirit in which it is offered and furthermore that the publication of this material, if permitted by public interest.

Note.

(W.B. Smith) Senior Radio Engineer

Air Services Telecommunications Division

OTTAWA, Ontario, November 24, 1950.

Dear Major Keyhoe:

The draft of your proposed article in True Magazine was referred to me through our Embassy in Washington. I certainly appreciate your willingness to let us see this advance document and comment upon it.

I feel, however, that the presentation might cause considerable embarrasement to the Canadian Government since they would be required to make some mort of official statement shortly after the release of the article which they are not, at the present time, in a position to do.

I have no objection whatsoever to the publication of the actual information contained in your article but I would much prefer that it be presented as an engineering opinion rather than the product of a definite project. I am sure you will appreciate this viewpoint since, as you know, our investigations have not progressed to the point where we can say conscientiously that we know the answers.

I have taken the liberty of redrafting the first five pages of your article to the asteriak marked at the top of page six. I sincerely hope that you will accept this suggestion in the spirit in which it is offered.

Yours truly.

(W.B. Smith) Senior Radio Engineer

DRAFT OF PROPOSED REVISION OF "TRUE" ARTICLE ON FLYING SAUCERS.

A group of Canadian scientists has been working for some time on certain problems connected with the earth's magnetic field. These investigations appear to point the way to a new technology in magnetics, and if the initial conclusions are correct, they offer a ready-made explanation for many of the striking features which have been reported in connection with the sightings of flying saucers. The basic premise is that it is possible to produce a magnetic "sink" within the earth's field; that is, a region into which the magnetic flux will flow at a controlled rate, giving up some of its potential energy in the process. Such a sink would have many interesting properties, such as the following;

- collapse of the earth's magnetic field into the sink.
- 2. Powerful reaction forces could be developed in a conducting ring surrounding the sink and off-set from it, surficient to support a suitably designed snip and to propel it.
- 3. If the rate of flow of magnetic flux is modulated the resulting magnetic distrubance

could be used for communication purposes.

descriptions of flying saucers are in accordance with
the design which would be necessary to exploit the
properties of a magnetic sink. For example, the saucers
are described as consisting of a large circular disc, slightly
dished, with a small central cabin. In this case, the sink
could be located in the upper central part of the cabin, and
the collapsing field in cutting through the surrounding
metaltic ring would induce in it an electric current which would
react with the magnetic field which induced it, producing a
force which would have a substantial vertical component.
Support and propulsion of the ship would then be a combination
of this resultant force, the airfoil action of the disc, and
the interaction between eddy currents induced in the disc by
its rotation and the main field.

Rotation of the disc may be either deliberate, for the induction of eddy currents or may be incidentally caused by the electron drag of the very large current circulating around the disc. In any case, there is good observational evidence that the disc appears to rotate.

Since the lift on the saucer will be proportional to the product of the earths magnetic field and the field produced by the current induced in the disc, it follows

force is required and hence a greater circulating current.

If the circulating current is sufficiently large and the cooling of the disc is inadequate, it may become red or even white hot, which is in line with several reported observations. Also, under certain conditions of operation a very high voltage may be built up between the center and rim of the disc, which could result in a corona discharge through the surrounding air if the saucer were at a sufficiently high altitude. Such a discharge would resemble the northern lights but would be very much more intense.

This elso seems to be confirmed by observations.

Navigation of such a flying seucer would be a very complex process indeed. In the first place the earth's magnetic field makes all sorts of angles with the horizontal, depending upon geographical latitude, and upon peculiar local conditions. Thus, the direction of the force which results from the interaction of the earth's field and the field of the disc may be in almost any direction. Furthermore, the tilt of the saucer to get the reaction force in the wanted direction most probably will result in airodynamic forces in some other direction.

Navigation therefore would resolve into a determination of the field direction, comparison with the direction in which it is

which would result from such a motion, and a suitable correction in the initial tilt of the saucer and flow of magnetic flux. It is doubtful if a human pilot could manage to do all this at the speed which would be necessary to managevre a saucer at the speeds and through the intricate motions which have been observed. It is therefore highly probable that the saucer control systems are semi if not fully automatic, and most likely a push button effort.

In one spot for some time. For a saucer designed to operate as described, this would probably be its easiest manoeuvre, as it would be necessary merely to adjust the flux flow and wilt until the resultant force exactly balanced the weight of the saucer. There would be little or no alrodynamic problem in this case.

The only sound which would be expected from such a saucer would be a swish as of any object passing swiftly through the sir, plus any incidental noises which might originate with the internal machinery of the saucer. There would be no roar of engine exhaust or jets, or beat of promotiers, or other noises usually associated with aircraft.

as has been described to leave vapour trails if it happened to pass through a region of supersaturated air, with a surficient voltage on the disc to produce a corona discharge. The ions produced by the discharge would form nuclei for the condensation of droplets of water or crystals of frost, and the path of the saucer would be marked by the resulting visible cloud.

There is no indication that the accelerations to which a saucer crew would be subjected would be any different from the accelerations experienced in any other type of aircraft going through the same mandeuvres. Those authorities who have been consulted say that even Einstein's Unifield field Theory does not indicate that gravity can be neutralized or the inertia of matter overcome. Where saucers have been observed to execute close turns and other mandeuvres which would result in large accelerations, it is most probable that such saucers are remotely controlled and do not contain living matter as we know it.

Air Services Telecommunications Division

SECRET

OTTAWA, Ontario, January 3, 1951.

Dear Gordon:

I would like to bring you up to date in our magnetic program and also request from you any information which you have been able to obtain along these lines since we last discussed the matter.

We have three engineers working full time on the program, together with two technicians, with concentrated effort on the magnetic sink. Progress is, of necessity, slow because of the physical labour involved in making the various set-ups and measurements necessary.

Full co-operation is being given by Defence Research Board and National Research Council although at this stage in the work there is not a great deal that they can do beyond assisting in some of the machine work and providing materials and instruments. The holiday season of course made quite a hole in our program as no one felt inclined to put forth a maximum effort at that time.

I understand that Doctor Solandt was in Washington for sometime recently but I have not had a chance to speak to him since he returned. I do not think that he uncovered anything of significance or he would have passed the information along to us. It is possible that Mr. Wright may be able to add something.

Incidentally, our program is now official within the Department of Transport and is known as Project Magnet. It is classified as secret until such time as we know where we stand. Doctor Solandt has requested that we respect fully the United States classification on these matters.

Doctor Solandt referred Donald Keyhoe's draft article to me for comment. I took extreme exception to the first portion of the article which dealt with material which we had discussed, end in order to preserve our position I took the liberty of redrafting the first part of this article.

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I returned the article with the revision to Doctor Solandt together with a letter to Keyhoe explaining my action. I also asked Doctor Solandt to show the article revision and letter to the others in our group for their ecuments and any further revisions which they might consider in Canadian interests.

I have heard nothing further in regard to the Keyhoe article and I was wondering if you could throw any light on the subject. I imagine that it has long since been returned to the Canadian Embassy in Washington after which I understand Keyhoe was to take it to Doctor Bush for clearance. I do not know what Doctor Bush's reaction will be to the material contained in the major portion of the article and my revision, but his reaction should certainly be interesting and I would like you to have a talk with Keyhoe sometime at your convenience to ascertain this point.

I trust that you had a completely satisfactory Yuletide season and kept up the tradition of Canadians in Mashington.

Yours sincerely,

(W.B. Smith)

Note: Bush was Chain of Res. 4 Dev. Bd.



SECRET

1746 Massachusetts Avenue, N.W., Washington 6, D. C.

January 6, 1951

Dear Wilbert,

Thank you for your letter of January 3. I was glad to hear how well you were progressing with arrangements for Project Magnet and I hope that this will give you ample opportunity to proceed with your research.

There is very little more that can be done here for the present. The official position is still that nobody knows anything about the matter here at all. We are, of course, keeping our ears and eyes open and if anything does develop you will probably hear through the Wright and Solandt channel. On the Ambassador's instructions no one in the Embassy, apart from Wright and myself, is to discuss the matter with anyone.

I shall be glad, of course, to act as a post office and I think it would be useful to keep this channel open.

deceased.

I have not yet had an opportunity to neet Keyhoe but I can easily do so through Bremner, and I will make an exploratory contact in the near future. I did not see his article after it was referred to you. I can appreciate your annoyance with the first two or

. 2.

W.D. Smith, Esq.,
Air Services,
Telecommunications Division,
Department of Transport,
Ottawa, Canada.

deceased

three paragraphs. The article was returned to Keyhoe through Wright and he has not seen it since nor has he heard anything from Bush or what Bush did. I may be able to get something more on this angle after seeing Keyhoe.

Is it possible to get "True" in Canada or should I send you a copy when and if the article comes out?

The Ambassador and I would be particularly interested in any indication you may have heard when you were here on the possibility of an official U.S. Government statement. It is this political angle with which I will be principally concerned. Anything you can do to help in this respect will be welcome.

There are a number of matters which I would. like to discuss with you and if I manage to get up to Ottawa anytime in the next month or so I will make a point of getting in touch with you.

Thanks very much for your Christmas card. hope that your celebrations were as alcoholic as ours.

Yours sincerely,

orden

gordon E. cox. - Deceased

per Call to

External Affairs

83-1-11 JF

TOP SECRET

C.P. Clift Dept of Transport

Mr. Edwards should write to the ept of national defence Ottawa requesting that clearance may be obtained for Mr. W. B. Smith to visit the appropriate Service in the United States to discuss the use of Terrestial agnetic forces in relation to MENERGRAPH problems associated With saucer shaped objects.

In the covering request, the "epartment of transport should relate in as much detail as possible the objects of this study and also detail the work which has been carried out in the Geophysical field in Canada

Information unofficiall obtained from Dr. Robert I Sarbacher, dean of the Graduate subool, Georgia University

Deed by Nov. 24,1982 Bray. from Arthur Bray.

Air Services Telescremnications Division

OTTAWA, Ontario, January 15, 1952.

Dear Arnauld:

Further to our discussion in Washington in December, I have given the matter considerable thought and feel that it would not be wise to discuss our activities with American scientists until we have had an opportunity to have them discussed thoroughly within an entirely Canadian group.

I expected to have a report on our activities in the hands of Doctor Solands before our next visit to Washington but for one reason or another, mostly great activity in the Section, I have not been able to get the report in shape. We expect to be in Washington during the week of January 21st and it looks as though the report will have to wait until scretime after I get back.

I shall, however, bring with me to Washington some of the data and my draft report so that you can see at first hand what we have been doing. I am sure that you will agree that it would be premature to discuss these matters with anticomals of another country before we have them cleared by our own people.

With kindest personal regards.

Yours very truly,

(W.B. Smith)

Doctor Arnauld Wright, - Deceused,

Doctor Arnsuld Wright, Defence Research Board Limison Officer, Canadian Embassy, Washington, D.C.



CANADIAN JOINT STAFF

PERSONAL

OFFICE OF DEFENCE RESEARCH MEMBER 1746 MASSACHUSETTS AVE., N.W. WASHINGTON, D.C.

18 January 1952

Dr. Wilbur B. Smith, Air Services, Telecommunications Division, Department of Transport, Ottawa, Canada.

Dear Dr. Smith:

Thank you for your letter dated 15 January 1952.

Discussions of your findings with American scientists will, of course, not be had until you give the green light.

I hope during the week of January 21st you may have time to visit us, and perhaps have lunch with me one day.

Kindest personal regards,

Yours sincerely,

(A.L. Wright)

Deferce Research Member.

OTTAMA, Ontario, April 18, 1952.

Unidentified Objects

22-12-29 (R.B.M.)

- 1. A study of some of the traces taken at our Ionosphere Stations indicates that reflections have been obtained from conducting objects approximately overhead. From the character of the traces it is concluded that these may be associated with the so called Flying Saucer phenomena and all stations are requested to keep a sharp lookout for unidentified aerial objects.
- Any trace not conforming with the general established pattern should be regarded with suspicion and the sky promptly scrutinized for any visible object which might be responsible.
- 3. Where magnetic records or comic ray records are available they should be inspected immediately to see if any obvious correlation exists.
- In the event of an actual sighting, the following information should be carefully noted:
 - a) General shape of the object.
 - b) Luminosity or brilliance and colour.
 - c) Meximum dimension as compared with the dimension of some object such as a pencil held at arm's length.
 - d) Approximate bearing, and angle above horizon when first sighted.
 - e) Approximate bearing of path.
 - f) Accompanying or delayed sound if any.
 - g) Approximate time (ir seconds) taken to travel through a certain are (approximate degrees).
 - h) Exact date, time and weather conditions.
- 5. If at all possible the Ionospheric recorder should be put on continuous sweep throughout the period of the sighting so as to obtain distance data.
- 6. Reports should be sent to Headquarters as promptly as possible with an advance message by radio advising of the incident.

Original Signed by

F. G. NIXON

(G.O.W. Browne)
Controller of Telecommunications.

Mgs.

Mr. V.D. McLeod, Officer-in-Charge, Boker Lake Ionosphere Station, M.P.O. 1015, Fort Churchill, Manitoba.

OTTAWA, Ontario, April 19, 1952.

Unidentified Aerial Objects

22-12-29 (R.B.H.)

CONFIDENTIAL

- 1. There has been reported a number of recent sightings of unidentified aerial objects and there is reason to believe that the number of such sightings will increase over the next month or
- 2. In collaboration with the Defence Research Board it is planned to make a thorough study of all sightings reported in an effort to identify these objects, their source and purpose, and the assistance of your Division is solicited in keeping a sharp lookout for unidentified aerial objects.
- 3. It would be appreciated greatly if you would instruct your weather observers to note carefully and submit to this office the following information on any unidentified aerial object which they may sight:
 - a) General shape of the object.

b) Luminosity or brilliance and colour.

- c) Maximum dimension as compared with the dimension of some object such as a pencil held at erm's length.
- d) Approximate bearing, and angle above horizon when first sighted.

e) Approximate bearing of path.

f) Accompanying or delayed sound if any.

- g) Approximate time (in seconds) taken to travel through a certain arc (approximate degrees).
- h) Exact date, time and weather conditions.

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Mr. Andrew Thomson, Controller of Meteorological Services, Department of Transport, 315 Bloor Street Mest, Toronto, Ontario, In view of the fact that many of your observers use theodolites, it would be further appreciated if these observers could make accurate measurements on any objects sighted, noting at the same time the behaviour of the compass needle. What we particularly wish to obtain is data from which the exact size, shape and altitude of such objects can be calculated. We also wish to know what speeds they attain and measurements towards this end would be appreciated greatly.

Original Signed by G. G. W. Browne

(G.C.W. Browne)
Controller of Telecommunications.



OUR FILE

CONFIDENTIAL

SECKET FILE SEC. DEPARTMENT OF TRANSPORT

INTRA PEPARTMENTAL CORRESPONDENCE

22-12-2 Transport Dept

OTTAWA, Ontario, April 25, 1952.

OUR FILE

-2629

SUBJECT

Unidentified Aerial Objects

22-12-29 (R.B.M.)

- There has been reported a number of recent sightings of unidentified aerial objects and there is reason to believe that the number of such sightings may increase over the next month or so.
- 2. The Defence Research Board have established a committee for the purpose of making a thorough study of all sightings reported in an effort to identify these objects, their source and purpose. Since the Department of Transport operate a large number of field agencies this Department is represented on the committee by an officer of this Division who will undertake the collecting and cataloguing of data on any sightings by observers in the Department.
- In view of the fact that Marine Services are responsible 3. for the operation of such establishments as light houses, etc. where a lookout is normally kept, it is felt that such observers might be in a favourable position to note characteristic data pertaining to any unidentified aerial object which might come within their view.
- It would be appreciated greatly if you would instruct appropriate establishments to note carefully and submit to this office the following information on any unidentified aerial object which they may sight:
 - a) General shape of the object.
 - Luminosity or brilliance and colour.
 - c) Maximum dimension as compared with the dimension of some object such as a pencil held at arm's length.
 - d) Approximate bearing, and angle above horizon when first sighted.
 - e) Approximate bearing of path.
 - Accompanying or delayed sound if any. I)
 - g) Approximate time (in seconds) taken to travel through a certain arc (approximate degrees).
 - h) Exact date, time and weather conditions.

Mr. H.V. Anderson, Director of Marine Services, Department of Transport, . Hunter Building. Ottawa, Ontario.

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CONFIDENTIAL

DRBS

DEFENCE RESEARCH BOARD

Ottawa, Ontario 28 April, 1952.

TO: Distribution:

- 1. Herewith for your information and retention are the Minutes of the Meeting to discuss "Flying Saucers" Sighting of the 22 April, 1952.
- 2. Please sign receipt below and return to Room 4502 "A" Building, Defence Research Board.

H. C. Oatway Junas Secretary.

Distribution [

Dr. O.M. Solandt S/L L.P.S. Bing F/L V.L. Bradley Col. G.M. Carrie -- D.R.B. J.I.S. D.R.B. D.R.B. G/C D.M. Edwards D.A.I. Mr. A.J. Langley Dr. P.M. Millman D.R.B. Dom. Observ. D.N.I. Cdr. J.C. Pratt Mr. W.B. Smith D.O.T. Lt. Col. E.H. Webb (DMO & P) Mr. H. C. Oatway D.R.B. File Copy.

Note by Th This was deterned De 2, 196 & by The Arbeit Archives, Otlawa - part of 246 p. Propert Second Story Filo. There were other DRB weeting with some other names that year

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DEFENCE RESEARCH BOARD

Minutes of a Meeting to Discuss "Flying Saucers" Sighting, 22 April, 1952.

Chairman:

Dr. O.M. Solandt(DRB)

Present:

S/L L.P.S. Bing (JIS)
F/L V.L. Bradley (DRB)
Col. G.M. Carrie (DRB)
G/C D.M. Edwards (DAI)
Mr. A.J. Langley (DRB)
Dr. P.M. Millman (Dom. Observ.)
Cdr.J.C. Pratt (DNI)
Mr. W.B. Smith (DOT)
Lt.Col. E.H. Webb (DMO & P)

Secretary:

Mr. H. C. Oatway (DRB)

The Chairman opened the meeting with a brief reference to the more frequent occurence of "Flying Saucer" sightings. The frequency and persistency of the sightings would tend to discount the theory of 'hallucinations'. This, coupled with an aroused public interest in these sightings, tended to call for a more active stand on the matter. At present the gathering of reports was rather haphazard and the reaction of the Services was passive. It is thought that a more active and intensive effort should be made to obtain these data on an organized basis, and all reports investigated and analysed. The objects of the meeting were then to determine if a more serious effort is justified and, if so, ways and means of implementing an organized effort. Organizations such as the Observer Corps might be enlisted for the job of sighting. If nothing else, this could serve as a useful training for the Corps. An examination of the theories might prove useful in giving a lead to the best locations for sighting. It was fortunate that proponents of the theories of terrestrial and extraterrestrial origins were in contact with the D.R.B. and their data could be examined first hand.

The Air Force representatives then briefly outlined the work done by the USAF up to a year or so ago. As these efforts consistently resulted in 'nil returns' their project, in so far as the press and public were concerned at least, had been discontinued. Very recently, however, this investigation was re-opened, but is now classified.

In the discussions which followed, it was pointed out that precise and realistic details were lacking in all known reports. If observers such as the Rangers, watchers on ship board and the Observer Corps, which incidentally is really still in the paper organization stage, are to be enlisted some well planned guidance would be necessary. A small booklet illustrating typical celestial phenomena would result in more intelligent observation and eliminate many erroneous impressions. It was considered desirable to obtain information from U.S. interviews obtained under proper interrogation procedure, but to avoid the U.S. analysis of these

interviews which was often unacceptable to some members of this Committee.

Mr. Smith briefly outlined the extraterrestrial origin theory. A plot of the frequency and timing of sighting related to the opposition of the planet Mars to the earth was displayed. Sightings occur at approximately six week intervals, but the frequency is much higher during periods when the planets are nearing each other such as in the present month. The more reliable observations place these objects at heights of 100 to 300 miles moving with velocities in the order of 1000 - 2000 mph. Terrestrial bodies making use of airfoils could not operate at these heights. Size and power limitations also negate earthy origins. The brilliance of sighting after sunset could be explained by reflections from the body at these altitudes of the sun's illumination, or in daylight by frictional heating or other magnetic heating effects. Considering the orbital velocities of the earth and Mars (18 and 15 miles per secon respectively) and their nearest positions (e.g. 52,000,000 miles on May 8th) with a continuous acceleration of 2 g for 3 or 4 days, these distances could be traversed.

Mr. Langley stated that no electronic reports had been received of flying saucers. It was generally agreed that no electromagnetic radiations had ever been found which could not be traced to terrestrial origin. If electronics are associated with these objects, their frequencies are outside the presently usable ranges. Mr. Smith then elaborated on the work of the ionosphere stations which had been asked to report any unusual findings, but with 'nil returns' to date.

The Chairman outlined in broad terms the theory of terrestrial origin, namely a new type of aircraft (presumably Russian) as expounded by Mr. Frost of the A.V. Roe Company. This theory had some discrepancies, but the aerodynamics were worth following as, even if of extra-terrestrial origin, the bodies would have to follow aerodynamic theory within the earth atmosphere. Also a new high speed aircraft design might be evolved. The theories outlined should give an impetus to the flying saucer investigations.

It was generally agreed that a more active investigation should be undertaken. The Chairman believed that the function of the D.R.B. should be mainly advisory as the collecting of reports could best be done by field organizations. The representatives of the Services agreed and will use their discretion in the choice of their more suitable sections to use for observers.

It was decided that a Committee should be formed to give a lead in this activity and to standardize procedures, etc. Accordingly the following were nominated and agreed to act: Dr. Millman (Chairman) G/C Edwards, Lt. Col. Webb, Cdr Pratt, F/L Bradley, and Mr. Oatway (Secretary) This committee was to prepare a brief of instructions for observers; examine interrogation procedures to get a consolidated and pertinent series of questions;

and to establish a standard method of recording and indexing for subsequent analysis.

Finally G/C Edwards suggested that the RCMP might prove to be a valuable addition as observers. This organization has the added advantage of having trained interrogators.

The Chairman thanked those present for attending and for their willingness to aid in these investigations.

26 April 1952 O T T A W A .

DEPARTMENT OF TRANSPORT

INTRA-DEPARTMENTAL CORRESPONDENCE

23

OTTAVA, Noy 1st, 1952.

DATE

CONFIDENTIAL

Unidentified Aerial Objects

22-12-29

OUR FILE

Copies sent to ten Agents and three Sub-Agents.

7464

SUBJECT

CIRCULAR LETTER M.S. 441

A number of recent sightings of unidentified aerial objects have been reported and there is reason to believe that the number of such sightings may increase over the next month or so.

The Defence Research Board has established a committee at Ottawa for the purpose of making a thorough study of all such sightings reported, in an effort to identify these objects, their source and purpose. The Department of Transport is represented on this committee by a member of the Telecommunications Division of the Air Services Branch.

Since the nature of Marine Services' operations in the field necessitates the keeping of careful lookouts at all times by personnel such as lightkeepers, lifesaving crews, and crews of Agency vessels, it is felt that such observers might be in a favourable position to note characteristic data pertaining to any unidentified aerial objects which might come within their view.

Accordingly, it is requested that instructions be issued to all lightkeepers, lifesaving crews and crews of Agency vessels, to note and submit through this office the following information regarding any unidentified aerial object which they may sight:-

(a) General shape of the object.

(b) Luminosity or brilliance and colour.

(c) Maximum dimension as compared with the dimension of some object such as a pencil held at arm's length.

(d) Approximate bearing, and angle above horizon when first sighted.

(e) Appr ximate bearing of path.

(f) Accompanying or delayed sound if any .

(g) Approximate time (in seconds) taken to travel through a certain arc (approximate degrees).

(h) Exact date, time and weather conditions.

All observers should be directed towards making as accurate measurements as possible of any object sighted, so that the exact size, shape and altitude of such objects may be calculated. The Committee is also anxious to know what speeds these objects attain and any characteristics which might indicate their mode of operation.

For security purposes this matter is classified as confidential, and all sighting reports to Marine Agents should be governed accordingly.

(H. V. Anderson)

Director of Marine Services.

A.V. Anderson

5/24/81

CANADIAN JOINT STAFF

RM/12/2 SECRET

OFFICE OF DEFENCE RESEARCH MEMBER 1746 MASSACHUSETTS AVE., N.W. WASHINGTON, D.C.

Chairman, Defence Research Board, Ottawa, Canada, 1110

28,0ctober 1952

Aero Section

Nov. 3; 1952 DR BS 200-4-16 0

Unidentified Flying Ox Project Grudge

A USAF analysis of the first 244 reported incidents is summarized below.

- Since 5 December 1948 a series of recurring phenomena described as "green fireballs" have been reported in the general vicinity of Albuquerque, New Dr. Lincoln La Paz, noted meteoritic expert has been directly, though unofficially, associated with the investigation of these sightings and has himself observed the phenomena. Dr. La Paz states he is convinced the green fireballs are not ordinary meteors. This group of incidents has little or nothing in common with other incidents on file with Project Grudge, therefore, these incidents are not considered in the analysis. The Scientific Advisory Committee was asked to investigate the matter and had advised that an independent investigation be conducted in the field of atmospheric research.
 - Upon eliminating several additional incidents due to vagueness and duplication, there remain 228 incidents. Thirty of these could not be explained because there was found to be insufficient evidence on which to base a conclusion.
 - Consulting agencies provided plausible solutions for 164 incidents with the following comments and findings:
 - Rand Corp. (172 incidents considered). "We have found nothing which would seriously controvert simple rational explanations of the various phenomena in terms of balloons, optical illusions, conventional aircraft, planets, meteors, bits of paper, practical jokers, psychopathological reporters, and the like."
 - Ohio State University (Dr. Hynck 244 incidents considered). Assuming evidences of observers and investigators to be correct, Dr. Hynck concluded that 32% could be explained astronomically, 35% that 32% could be explained astronomically. could be attributed to balloons, aircraft, rockets, birds, etc., and 33% either lacked necessary evidence or a suitable explanation was not apparent. When due allowance was made for inaccuracies in when due allowance was made for inaccuracies in observing and reporting, 53% might be explained astronomically.

Classification cancelled Changed to....

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- Air Weather Service (233 incidents considered). 12% apparently were weather balloons. (d)
- Air Materiel Command Aeromedical Laboratory (Dr. Paul M. Filts 212 incidents considered. There Paul M. Filts - 212 incidents considered. are sufficient psychological explanations for the reports of unidentified flying objects to provide plausible explanations for reports not otherwise explainable. These errors in identifying real stimuli result chiefly from inability to estimate

5. Of the remaining 34 incidents, investigation shows that they form no pattern in regard to area of Sighting, type of object, or manner of performance of were indications, however, that some sightings would not have been considered unusual or reported Would not have been considered unusual or reported

(A.L. Wright) Defence Research Member

Chairman, CJS Air Member, CJS

> Classification carcelled / Changed to By sutharity of Signature Day May Unit / Rank / Appointment.

SHERRY.

DEFENCE RESEARCH BOARD

LRBG 3800-16-1

HEMORANDUE

'8 October, 1958 Classification cancelled / Changed to By authority of. Date... Signature...

tions of Unidentified Flying Objects

Reference your minute re letter from the National Investigations littee on Aerial Phenomena dated 11 August, 1958. I have drawn up a of letter which PRO might forward to NICAP. It should be noted that Smith is a member of this organization and surely the Director of TAP must be aware of this. It was also thought that the procedure for investigations of UFO reports should be reviewed to establish what was now being done by Canadian agencies in this regard.

Past History

unnard:

U.S. "Project Saucer" was completed about 1950 and it was found desirable to solicit Canadian reports. At the 220th meeting of the JIC on the 12, Apr. 1950, UPO's were discussed and the following decisions were reached:

(a) DSI and DAI were to collaborate in preparing a questionnaire to be distributed to field intelligence officers of the three services and the RCMP.

- (b) DAI is to co-ordinate the investigation arrangements in the Ciald.
- (c) All field reports were to be passed to DSI for official examination on behalf of DND.

In late 1950 a questionnaire or sighting report form was drawn up and approved; copies and instructions were passed to field units. (Ref: letter 321-1-9 (DAI) 19 October, 1950 to TCHQ)

In 1952 the "Project Second Story" Committee was formed and the sighting report form was revised. The Committee met about six times, the first recent meeting apparently being 25 Feb. 54. The Committee con-cluded its activities which were summarized in a memo by Dr. Millman, Chairman. It was concluded that the sightings did not lend themselves to a scientific method of investigation. In 1954 the Secretary of the Committee informed DAI of Dr. Hillman's summary and stated that reports were still being collected, but that no analysis was being carried out.

Action by DR3/DSI

A tabular record of reports of sightings dating back to 1954 was initiated by F/L Birch of DSI. This is kept in this office and is classified SECRET. The last entry is a sighting of 0th June 1956. A file is also kept here which contains a multitude of press articles, sightings, etc. DRB file 3800-10-1-1 (3 vols.) contains a large number of sighting reports dating back to 1947.

Recent Action by DAI

This corning I examined a number of files held in DAI and talked to S/L Lovelace. In January, 1957 DAI initiated liaison duties with Mr. W. Smith of the Department of Transport. A sighting report form was devised which proved to be identical to that devised by Project Second Story Committee. A copy of this form is attached.

In December, 1957 a letter was prepared by DAI in raply to a request from a magazine regarding Canadian policy in investigating UFC's. An outract is as follows: "The DND makes no provision for the investigation into these phenomena. However, it has come to our attention that Mr. W.B.

NSRB DISTRIBUTION FRI

for of Radio Division DCT Room 2210, No. 8 Temporary Building, has been canadian Chairman of NICAP located in Mashington, D.C."

The was signed by the Deputy Minister for National Defence.

Also in December, 1957 a letter was written to ACAS by DAI:

**RCAF* has no official policy concerning the subject. There is no

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- sencers and is maintaining liaison with Mr. Smith. If a report is received the observer is asked by MAI to complete a sighting report form which is July, long. MI did not appear to be aware of earlier policy as explained in paragraphs 2 and 3 above.
- It would appear that DSI is not now involved to any large extent in the investigation of UFO reports. However the decision menshould be considered further.

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E.A. Bernard) S/L

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The Canadian Project

A BOUT twice a year since the fall of 1950, Smith had flown to Washington on official business. Each time, before he left, we had discussed the saucers and exchanged sighting reports. In the hope that he might be planning another visit, I wrote him at Ottawa. Then, while waiting for his answer, I went over the information I had on the Canadian investigation.

Two years before this, when I first learned of the Canadian interest in saucers, most Dominion officials and scientists had been openly skeptical. But early in '52, after a series of unusual sightings, their attitude had changed.

Though most of these recent sightings had been classified, a few were released to the public. Two of the published reports came from veteran airmen of the Royal Canadian Air Force.

On the night of January 1, 1952, an orange-red disc appeared over North Bay, where the RCAF has a new jet base. For eight minutes, flying at a high altitude, the machine circled, dived, and zigzagged over the field. From its estimated height in the stratosphere, the saucer was one of the largest ever sighted. Its maneuvers were made at supersonic speeds.

When the report was published, RCAF Intelligence

refused to comment. Then a second saucer was reported, again over North Bay. Approaching from the southwest, it stopped directly above the base. After hovering for a moment, it swiftly reversed direction. Climbing at an angle of 30 degrees, it disappeared at tremendous speed. Meantime, other disturbing reports had reached the RCAF. Until then, many top officers, taking their cue from

the Pentagon debunking, had laughed off the sightings. But after the second North Bay case, a high-level conference was held at Ottawa.

Four days later RCAF Intelligence publicly admitted it was starting a serious investigation. At the same time the Defense Research Board announced a new project,

now secret.

"We are carefully studying the information," said Dr. O. M. Solandt, chairman of the Board. "At the moment we are as mystified as anyone else."

Another official statement was given out by Dr. J. C. Mackenzie, chairman of the Atomic Energy Control Board and formerly president of the National Research Council "It seemed fontation that there could be any such thing."

"It seemed fantastic that there could be any such thing," said Dr. Mackenzie. "At first the temptation was to say it was all nonsense, a series of optical illusions. But there have been so many reports from responsible observers that they cannot be ignored. It seems hardly possible that all these reports could be due to optical illusions."

Dr. Peter Millman, a famous Dominion astrophysicist, also admitted he was baffled after studying the sighting reports

reports.
"It is no good just laughing at these reports. We can't discover any conventional explanation which would cover the reported maneuvers of these objects."

Just four days after the new project was begun, a formation of orange-red discs was sighted over Toronto, flying high above the city. Then on May 1 a lone saucer, moving at terrific speed, flashed over the Canadian capital. In this sighting at Ottawa, the disc's speed was calculated

130 o FLYING SAUCERS FROM OUTER SPACE

The second of th

as 3,600 m.p.h. by government investigators from "Project Magnet."

Unknown to most of the public, this special project had been started three years before, by geomagnetic engineers and scientists in the Telecommunications Division, Department of Transport. Its originator, the engineer in charge, was Wilbur B. Smith.

Probably no one in Ottawa was better equipped for a saucer investigation than Wilbur Smith. As the official in charge of broadcast monitoring, he could direct his men to listen for any strange messages; as a geomagnetic engineer, with a government laboratory at his disposal, he could carry out research on certain propulsion theories; through the official ionosphere observatories he could keep a radar check on saucers flying at extremely high altitudes.

In addition to this, Smith was an electronics expert, with several inventions to his credit. One was a high-speed radio direction finder used in World War II. Another was a new type of voltameter, and a third was a regenerative noise filter. He was also an expert on electronic analysis of graphic charts.

When I met Smith, in 1950, he was in Washington to represent Canada at an international conference on wavelength allocation. For two weeks, between his committee meetings and at nights, we covered every angle of the saucer problem. A tall, quiet-voiced man with close-cropped black hair, Smith had the cool detachment of a typical scientist. In our first talk he told me of the analyses he and his men had made. Then he gave me his opinion.

"I'm convinced they're real—that they're machines of some kind. We've weighed three possibilities. One, they're interplanetary. Second, they're a United States secret device. Third, they're Russian. The last two don't stand up. From the weight of evidence I believe the saucers come from outer space. And I think their appearance is what suddenly increased your government's interest in space travel and an artificial satellite. Judging from our

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THE CANADIAN PROJECT 0 131

own operations, I'm sure your government also is vitally concerned with learning the secret of propulsion."

"What do you think it is?" I asked him.

Smith laid a pad on the table—we were lunching at a downtown hotel. Then he sketched a rocket-shaped craft. "First, let's consider the parent ship. From the high

"First, let's consider the parent ship. From the high altitude sightings, I think it must be a type like this. For power it could use nuclear fission, mass conversion of energy, or some other revolutionary source, such as cosmic rays. But our experiments indicate that the true discs, which are probably launched from large parent ships, utilize magnetic fields of force. And it's possible that the parent ships also use this same source of power."

It wasn't the first time the electromagnetic field theory had been suggested. Before Scully used the idea, in his story of the little men, I'd checked it with two or three engineers. But when several well-known scientists ridiculed the theory, I'd lost interest in it.

The first hint of electromagnetic propulsion had come in '47, on the day of Ken Arnold's now famous sighting. About that same hour, an Oregon prospector later reported, several discs appeared over the Cascade Mountains. As they circled overhead, his compass needle went

His claim drew a tart comment from Project Sign analysts.

"It is difficult to take this seriously. It would imply fantastically large magnetic fields."

There had been other hints of discs rotating to utilize magnetic fields. One report came from the Reverend Ross Vermilion, a former B-29 pilot. The minister and other witnesses had described a rotating saucer which hovered a few hundred feet over a Kansas highway. Also, I had found some scientific support in the experiments of Dr. Fernand Roussel, a Canadian physicist now living at Lasqueti Isle, British Columbia. In a privately published treatise called "The Unifying Principle of Physical Phe-

now out of print, has several points in common with tap in traveling between planets. (This treatise, which is electromagnetic fields, which he believed space ships could nomena," Dr. Roussel explained his theory of universa Einstein's unified field theory.)

storm raised by Scully's electromagnetic explanation, I'd theory in my 1950 book on the saucers. But after the Quoting Doctor Roussel, I mentioned this propulsion

carry large electric charges. tricity of the ionosphere. In this upper atmosphere ions writing in the Journal of the American Rocket Society rays of the sun. This ionization frees molecules which are stripped of some outer electrons by the ultraviole Zwicky of the California Institute of Technology. In 1951 stopped giving it serious thought.
Since then, several scientists have backed the theory Dr. Zwicky said that it may be possible to use the elec-One who publicly advanced the idea was Dr. Franz

may prove better than atomic energy for propulsion. "If we can tap this electric force," said Dr. Zwicky, "it

unknown. downward velocities, as high as 275 m.p.h., also have the key to tremendously powerful magnetic forces now been discovered. Future ionosphere research may give us which reach speeds up to 540 miles an hour. Unsuspected miles up, was believed to be utterly still. Now, radio-echo Until two years ago this layer, which begins about 50 netism admitted new discoveries about the ionosphere. (radar) tracking shows there are high-speed "waves" Recently the Carnegie Institute of Terrestrial Mag-

Other reputable groups, including scientists of the British Interplanetary Society, have suggested space-ship the beginning, but it shows the changing attitude toward this once-derided theory which a more advanced race may propulsion by means of external fields of force. It is only

long ago have put to practical use.

In 1950, however, Wilbur B. Smith and his little group

were the only government scientists I knew who took the

idea seriously:

myself before our experiments. cally all our modern developments. I'd have doubted it the aeroplane, the helicopter, jets, the A bomb-practimentioned some scientists' reaction. "So were plans for "Certainly the theory's been ridiculed," Smith said when

the research was done in a government laboratory with At the start the Canadian project was unofficial, though

create current by a collapse of the earth's magnetic field back to the fundamentals of electromagnetism and expower a flying disc. And we plan to build such a disc." Eventually, I think, we can achieve enough current to amined all the old laws. We know now it is possible to make that clear. We're government engineers and scienofficial approval tists, but we are working on our own time. We've gone "If you publish any of this," said Smith, "I want you to

"How much of this can I use?" I said.

Smith hesitated. "I'll give you the information, but it will have to be cleared with my government."

Staff, after a check at the Pentagon. The following is a Wright, Defense Research member of the Canadian Joint verbatim copy of the most important statements The revised report was cleared for me by Mr. Arnold draft and sent it to the Canadian Embassy in Washington After his return to Ottawa, Smith rewrote my origina

way to a new technology in magnetics, and if the initial conclusions are correct they offer a ready-made explanasome time on certain problems connected with the earth's tion for many of the striking features which have been reported in connection with the sightings of flying saucers. "A group of Canadian scientists has been working for magnetic field. These investigations appear to point the

"The basic premise is that it is possible to produce a magnetic sink [the name arbitrarily chosen by Smith and his engineers] within the earth's field; that is, a region into



DEPARTMENT OF TRANSPORT

INTRA-DEPARTMENTAL CORRESPONDENCE

722-12-332

OTTAWA, Ontario, August 10, 1953.

NCE DAYS

Project Magnet Report OUR FILE (R.B.M.)

MEMORANDUM TO THE CONTROLLER OF TELECOMMUNICATIONS:

- Attached is a report on the activities and conclusions of the Project Magnet group in the analysis of the sightings of unidentified flying objects. We believe that our work has been much more thorough than any done elsewhere, certainly more so than the United States' effort which has been confined essentially to the cataloguing of everything as it is reported. While we have not had the large number of sightings with which to work that have been available in the United States, we feel that all which we have included as proper sightings are significant. The Canadian sightings appear to be consistent with other sightings elsewhere in the world and we have therefore assumed that they represented a fair cross section and have dealt with them accordingly.
- As you will note from the report, we have concluded that a significant number of the sightings are PROBARLY due to some kind of vehicles and we can get a glimpse of the technology which makes them possible. We do not claim that the case for alien vehicles is proven by any means, but we do believe that there is sufficient evidence to warrant a scientific investigation on a reasonable scale to find out what these objects are and how they operate.
- The Project Second Storey Committee is quite inadequate for this job because of its membership structure and terms of reference. Aside from Dr. Millman and the undersigned there is no one on the committee who has a scientific interest in the Saucer phenomenon. Furthermore, since the committee is dominated by military intelligence officers whose establishments are already overburdened with other work, there is a definite tendency to follow the United States pattern of merely cataloguing and filing the sighting data. Efforts of the undersigned to guide the committee into a more active study of this subject have been quite unsuccessful since few of the members are willing to spend the necessary time studying the available data to form any opinion whatsoever.

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4. Therefore, it is recommended that the existing Project Magnet group be expanded into a scientific committee to deal with the saucer sightings in whatever manner may appear to be appropriate to their solution. The committee should be made up of scientific people who are able and willing to put some effort into the work and if the committee is established on a formal basis the members would feel free to do this. It is suggested that the N.R.C. and D.R.B. could provide suitable people from their ranks if they were officially invited to do so.

(W.B. Smith)

Senior Radio Engineer

11173 (

DEPARTMENT OF TRANSPORT

INTRA-DEPARTMENTAL CORRESPONDENCE

OTTAMA, Onterio, Movember 12, 1953.

PLACE

(R.B.L.)

SUBJECT

Flying Seucer Publicity

OUR FILE

MINIORATION TO THE COMPROLLER OF TELECOMPLICATIONS:

- The attached file 22-12-33 gives the history of our Project Magnet. This project was authorized by Commander J.P. Edwards then Deputy Minister of Transport for Air Gervices in December 1950.
- At the time Project Magnet was initiated we felt that there was a substantial linkage between some experimental work which we were doing and the modus operendi of flying soucers and we marely wished to bring this work to the attention of the proper authorities and to request permission to carry on with it. Our initial experiment turned out to be due to a phenomenon of gyro-magnetic interaction which has since been the subject of several scientific articles in current literature. It did not, however, invalidate our original thinking as to the possibilities of a fruitful exploration of magnetic phenomena generally. This file contains several documents which indicates the progessive thinking of the Project menet croup.
- On April 22, 1952 Doctor Solandt called together a group of people who organized as Project Second Storey Committee. The terms of reference to this Committee were rather indefinite except that they were to look into the matter of flying saucers generally. The committee met periodically and eventually evolved a sighting report questionnaire form and a guide for interrogators. This was considered to be a necessary first step in the study of unidentified flying objects.
- The Project Second Storey sighting report forms were used by 4. this Department in following up reports of unidentified flying objects which were sent in from time to time by our various field offices. These reports have been carefully analysed and copies of them referred to Project Second Storey Committee.
- At an early meeting of Project Second Storey the undersigned brought to the attention of the Committee the nature of the work being done by the Project Magnet group. The Committee, however, felt that investigation of this type was outside their terms of reference and preferred to confine their activities entirely to receiving and cataloguing sighting reports. From time to time the undersigned suggested at Committee

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meetings various definitive actions which could be taken in an effort to get closer to the answers to the flying saucer riddle, but in each case the Committee felt that they should not undertake work of this nature.

- of intelligence officers whose current establishments are already overloaded with other work and it is understandable that they would be reluctant to undertake a new program which was likely to increase their work with small assurance that answers would be obtained at an early date. Aside from Doctor Millman and the undersigned there was no one on the Dommittee who had a scientific interest in saucers.
- 7. In view of the attitude taken by the Project Second Storey Committee and the work which had already been done by the Project Magnet Group it was decided that Project Magnet should carry on their own work quite independently. Unfortunately, two resignations in the Proadcast and Measurements Section severely curtailed the theoretical and laboratory work. Therefore, the only productive work which the group felt they could carry on with was a detailed study of the sightings themselves.
- g. On August 10, 1953 a report was prepared covering the sightings which had been report to and analysed by the Project Magnet group during 1952. This report indicated that there was a real probability for the saucers being alien vehicles and recommending strongly that definite action be taken towards the uncovering of the technology which made them possible.
- raphic distribution of saucer sightings generally it was concluded that a good probability existed for a visitation in any one area within a period of four months to one year. On this basis it was decided to establish some type of observation station so that electrical, radiation, gravitational or other effects might be observed on instruments should a saucer pass in the immediate vicinity. Equipment was available from the broadcast skywave recording program which had been discontinued the previous year and together with a number of instruments which were made up in our laboratory or borrowed from the University of Toronto the observation station was set up. It is now practically in operation.
- Over a period of years it has become increasingly apparent that the United States Government have not been able to obtain answers to the flying saucers readily and consequently have relegated the matter very much to the background. The security classifications which existed

initially have been lifted one by one until at the present time only a few highly significant sightings appear to remain classified.

- ll. So far as Project Magnet activities are concerned it has been noticed that current scientific periodicals frequently carry technical articles which are almost exact duplicates of the work which we have been carrying on. Consequently, it does not appear that there is any need to keep the subject of magnetics in any kind of a classification. During the past year at least the matter of our theoretical and observational work has been freely discussed in scientific circles from which a great deal of useful assistance and suggestion has been obtained. While at all times the Project Second Storey security classifications have been respected we have considered that our own work had definitely outgrown any need for classification until such time as it could be shown that it was of significance to national security.
- Major Donald Keyhoe recently published a book entitled "Flying Saucers from Outer Space". In this book reference is made to the activities of our Project Magnet group. Most of the information which Major Keyhoe possesses came through a document which was a re-draft of an article prepared by Major Keyhoe before Project Magnet was even started. This draft was rewritten by the undersigned to bring it more in line with what we believed to be facts and a reasonable line of speculation. This document was delivered through Doctor Solandt and Mr. Arnold-Wright, Defence Research Liaison Officer, Canadian Embassy, "Mashington. Major Keyhoe is a personal friend of the undersigned and I have discussed with him on several occasions my own personal opinions regarding the flying saucers and Major Keyhoe has included some of this information in his book.
- On Saturday November 7 the Toronto Star reviewed Major Keyhoe's book and published a large display which featured prominently the Canadian activities. As a consequence of this publicity the undersigned was flooded with telephone calls from various reporters seeking verification of the information contained in the Toronto Star article. They were informed that the Canadian project still existed and was substantially as published by the Star. Apparently some reporters had obtained a clue as to the existence of our Shirley Bay saucer recording activities and asked for confirmation on this point. It is unfortunate that the Press attached the significance which they did to this matter as it is in fact a very small effort and is on a par with many such activities carried on by this Section from time to time to obtain data which we need in connection with various studies which we are making.

- November 11 the reporter asked how the project was financed and was informed that it consisted entirely of re-claimed equipment and was being carried on within the Broadcast and Measurements establishment. The activities have represented a very small and quite insignificant outlay of funds.
- It is admitted that the undersigned may have been in error in talking to the reporters and not referring them to our Public Relation officer but it was felt that it would be better to give the reporters the facts than to have them write the usual story based largely on supposition and which experience has shown can be perticularly wild. The manner in which the publicity arose is certainly open to criticism but it is the firm opinion of the undersigned that the public generally are aware of the fact that flying saucers have a high degree of probability of being alien vehicles and that there is no reason why the fact that a Government agency is doing something about it may be concealed perticularly in view of the statements which Doctor Solandt and Doctor Mackenzie made approximately a year ago just prior to the organization of Project Second Storey Committee.
- It is strongly recommended that a much greater effort be made by the Government, particularly in the field of theoretical physics towards a solution of the saucer technology. It is apparent that as long as there is any probability at all that the saucers are real alien vehicles they certainly represent a technology which would be extremely valuable to us and it is the sincere hope of the undersigned that something can be done to acquire at least a portion of this technology.

(W.B. Smith) Senior Radio Engineer

D. M. 13



DEPUTY MINISTER OF TRANSPORT FIL OTTAWA, CANADA

November 17th, 1953.

MERORANDUM TO THE MINISTER -

In December 1950, Lt. Comm. C.P. Edwards gave approval to a proposal advanced by Mr. W.B. Smith, Senior Radio Engineer. in charge of the Department's Broadcast and Measurements section, that a small group of technicians in our Telecormunications Division carry out, on a part time basis, a small programme of investigations related to their work in geo-magnetics, which Mr. Smith believed might lead to further information on flying saucers.

In April 1952, a committee known as Project Second Storey, was formed under the chairmanship of Dr. Solandt, Chairman of the Defence Research Board, for the purpose of looking into the matter of flying saucers generally. This Committee met on four or five occasions, and their meetings led to the preparation of a Sighting Report thich, it was felt, would serve to standardize siting procedures, The Department of Transport was represented by Fr. Smith on this Committee Decause of the very large number of field establishments in Transport. Subsequently copies of the Sighting Report have been distributed to our field officers and these Reports are completed and forwarded to headquarters with information regarding unidentified aerial objects seen.

Inasmuch as the Project Second Storey work was restricted in scope, the Project Magnet group continued their studies. To enable the carrying out of their investigations, used equipment already in the Department, together with a number of instruments made up in our labs or borrowed from the University of Toronto, were utilized.

Apparently the recent publicity arose as a result of a review made on November 7th by the Toronto "Star", of the book published by a Major Donald Keyhoe, who was acquainted with the exploratory work weing carried out by Project Magnet. His book contained mention of Mr. Smith!s

WLM

From the Press regarding the operations at Shirley Bay. Mr. Smith informed the Press that the equipment used was entirely of the reclaimed type and that the activities of Project Magnet represent a very small outlay of runds.

J-C. Lessard.

Engineer Thinks

Were Men From Space anadian Descendants

flying saucers, who says the colonization theory "is pert and a firm believer inon earth.

He is W B Smith, a radio communications ex-

well be the origin of life engineer contends this may

children's toys?

Canadian government

A Canadian government like a trout stream by infrom outer space, stocked

OTTAWA, Nov. 18. — Was this planet colonized

He admitted that no can a one-year ago Smith doubt many evolutionary ran, a one-year experiment mutations had occurred in at the Canadian governithe descendants of the ment radio laboratory at the chescendants of the Shirley's Bay, Ont, to try original stock placed here. Shirley's Bay, Ont, to try but he argued that the to record the overhead passeluct here argued that the to record the overhead passeluction the Biblical sults were inconclusive. responsible for stocking this planet soon after it first became habitable."

people are the only race, he said, "I feel that intellingent races throughout the universe probably were egotism," to assume earth It would be grapteme

"Many agree with this idea—both scientists and laymen," he added.

Contends Earth's a Colony

development of the human evidence of "visitors from outside keeping tab on the

story" of man's creation than the theory of evolu-tion, and "there's likely some foundation to the state of the contraction to the

years, he suggested, Flying saucer" sight-ref for the last fevr

The following letter is a copy of an original sent to CUFORN recently. Unfortunately, due to a dire need to reorganize our files, we cannot find out who sent us the letter. All that we can recall is that the person who sent it was very interested in exchanging information on Wilbert Smith, one of the pioneers in UFO research in Canada. Smith was an engineer with the Canadian Government's Department of Transport. He ended his career as the Superintendent of Radio Regulations Engineering for the Department. He died in 1962 after contracting cancer. We do not know who Mr. Caswell was.

February 23, 1959

Dear Mr. Caswell.

I appreciate your efforts in trying to bring to the public attention the facts concerning flying saucers, but I must advise you that many sequences are yet to be fulfilled before the public generally will be able to accept the reality of the people from elsewhere.

I have no objection EXE to your efforts to have my articles published by your local paper but I would request that ALL biographical material concerning myself be I feel that the articles themselves should stand on their own two feet. I have no objection to having my name appended or a reference to my HOME address.

For your information EVERY nation on this planet has been officially informed of the existance of the space craft and their occupants from elsewhere, and as nations they must accept responsibility for any lack of action or for any official position which they may take. There is nothing more to be done XXXXX along these lines, and effort in this direction is effort wasted.

Since you are not too far from North Bay I would suggest that you might find Mr. Richard H. Frampton 32 Gertrude St. West, worth getting in touch with. He and two friends visited me last fall and I found them most interesting.

Yours sincerely

W. B. Smith

OTTAWA ENGINEER EXPLAINS S AUCERS

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Answered for at least one of the man who firmly believes in its cancers — none-construction of the man who is accurately and the man who is a sure of the man who is a sure of the man who is an accurate who claims he has been the contact with the operators of phenomena to be during these mysterious craft from made or natural cause these mysterious craft from made or natural cause the man who is a sure of the man who claims the man who claims the man who claims he has been the contact of the man who claims he has been the contact of the man who contact is a significant throughout the universe — and gards as significant what's more, they look like us. which "orthodox" sets what's more, they look like us. which "orthodox" is the what's more, they look like us.

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CANADA.

WA

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And the second s

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ent "real" extraterrestrial \$ pa c. at ships: He states, moreover, less that these are operated by mo human beings from other worlds, or human beings from other worlds, less that the how does extence and technology pill to whose science and technology pill are immensely superior to ours. We How does he kn ow these they though the how does he kn ow the how does he kn ow the how the how the how the hour with them they have had direct communication to they have had direct communication to they have had direct communication to the has been by radio, he explained, mot something to the hour persons the hour persons the collection with them. Something our conventional idea in the hour thave never seen several to face, but I have seen several of their space; ships: Mr. Smith appears to the hour they hadded objects which he be it leves are parts of these space they conventional the seen hadded objects which he be it hadded objects which he be it leves are parts of these space they conventional the seen hadded objects which he be it hadded objects which he be it leves are parts of these space they conventional the seen hadded objects which he be it hadded objects which he be it leves are parts of these space they conventional the seen hadded objects which he be it hadded objects which

ye about the gear system they used.

"Suddenly I had a complete to mental picture of the mechanical by mental picture of the mechanical to unit, we had been discussing, we placed in my mind by some exity placed in my mind by some exity placed in my mind by some exity placed in my mind my some of the interest of the same of the s

sed their descendants." So Darwin to the was wrong after all, and "our lead to the west wrong after all, and "our lead to the sex Indeed. Mr. Smith reports, the ex. Indeed. Mr. Smith reports, the human rece "had no beginning me human rese and always will be." had all Coached by "our brothers form."

r is largely lease; then completely result on the basic principles of result of our science, he control lease in the control lease in the case of the control lease in the claims he now has solved a problem which has buffled mathing emailchans for centuries—how to an inject an angle. Like some he other experimenters inspired by the proposite, he is also "fooling" of the proposite, he is also "fooling".

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produced a brass and donly fly spart, more instrument which he it doesn't surprise or may solve the mystery him that most scientist may solve the mystery bird which will be supposed to take their receases of the thinks, it is hard to he said to traditional misconceptions, the said to traditional misconceptions, the solventh of the has seen and sone that he "binding But he has seen and sone the hold material counts to persuade him together can vary in did these space folk do exist the said they have something the said they have sai



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(i) -(i)(a) ha kha YOUR FILE No. Votre dussier

OUR FILE No. 22-12-33 (TRD) Holre dossier 22-12-39

DATE September 15, 1959

MOSS

SUBJECT Sviel PROJECT MACHEMY

Dr. P. M. Millman, Mational Research Council, has advised me that the documents reporting the results of the Docord atory studies in project 'Hagnet' be declassified. Those reading this file will see that project 'Hagnet' is a part of this file.

Since the question of flying saucers is still attracting public attention and since this file covers documents relating to the studies behind project 'l'egnet' and, indeed, records much of the discussion in the Department of Transport surrounding project "Magnet" which is confidential in nature, it is recommended that this file be down classified at least to the confidential level. At no time should

it be made available to the public.

Those wishing to obtain a copy of project 'Hagnet' can do so provided they represent an organization, describe the purposes of the organization and set forth the basis of their need for a copy to Dr. Milman of Mational Research Council. They may see the project 'Magnet' report upon making an appointment at the Netcor Centre, phone 3-9318.

A copy of the project 'Magnet' report on this file is the original and should not be destroyed until such time as this subject has "cooled off".

Miles change of here in Chiles Ind.

DEPARTMENT OF NATIONAL DEFENCE INFORMATION SERVICES



MINISTÈRE DE LA DÉFENSE NATIONALE SERVICES D'INFORMATION

(DIS) D1350-500/A Ottawa, Ontario K1A OK2

Ottawa 4, Ontario

October 24, 1972

Mr. Ronald W. J. Anstee 6566 - 24 Avenue Rosemount Montréal 409 HIT- 3146

Dear Mr. Anstee:

Thank you for your letter concerning your request for information regarding UFOs.

We are sending you the information we have on Unidentified Flying Objects. Prior to 1968, all sightings of UFOs reported to Canadian Forces Headquarters were investigated by the Director of Operations. It has not been the practice to allow the 1 general public to study these files.

Since the beginning of 1968, UFO reports received by the Canadian Forces are passed to the National Research Council. The branch exemines reports for scientific reasons warranting further investigation. The department of National Defence and other Federal Government agencies may be called upon to carry out these investigations for NRC.

Canadian Forces Headquarters has never made a public statement concerning UFOs, however, we endeavour to carry out our investigations with an open mind. We neither agree with nor deny the existence of UFOs. Investigations to date indicate that there is no evidence to suggest that UFOs present a threat to the world, however, certain reports suggest that they exhibit a unique scientific or advance technology that could possibly contribute to scientific or technical research.

It is hoped that the information is of interest to you. May we suggest that further enquiries be sent to the National Research Council, Montreal Road, Ottawa 7, Ontario.

Yours sincerely,

Note: We regret our departmental library has no knowledge of the publication in question, However, it is suggested that

L. A. Bourgeois Brigadier General

Director General Information

you emits to: Command ant

USAF Anademy galoreda Springs, Coloredi

ARTHUR BRAY

1187 AGINCOURT ROAD OTTAWA, ONT. K2C 2H8 CANADA (613) 225-2099

November 21, 1982.

Mr. Stanton T. Friedman, 110 Kings College Road, Fredericton, New Brunswick, E3B 2E7.

Dear Stan:

In reply to your letter of October 31st, you misunderstand my attitude towards science and scientists. My negative attitude is not directed at <u>all</u> scientists or science per se, but that segment of the community which refuses to examine the evidence for UFOs and other "unscientific" subjects. To ignore evidence and make pronouncements of its "unworthiness" is hardly scientific.

If you had read my writings carefully you would have noted that I speak frequently of the "scientific establishment", "orthodox science", "the majority of scientists" etc. I am clearly not against science or scientists, just those that ignore evidence and ridicule those who do examine it. I have had precious little complaint about those who are open-minded enough to study the evidence objectively and thoroughly before opening their mouths.

In fact, I give great credit to those who have explored "unorthodox" subjects and admire them for their courage. I gave credit to many of them in The UFO Connection, not only in chapters 9 and 10 in particular but also in the last paragraph of my Preface.

Further, a good deal of my paper Scientists in Support of UFOs (a copy of which I sent to you last spring) was based on the work of scientists, and I quoted them (including yourself) and gave full credit to all. If that paper wasn't a positive approach to a great many scientists, I don't know what is. It has since been published in the APRO Bulletin, No's 8 & 9 this year.

In view of the above, I fail to see why you are "dismayed" at my attitude. I think you may be overly sensitive because you are a scientist yourself. You are not among the group I do criticize.

Regarding your fourth paragraph, I do not understand your suggestion that my statement may have been "intentionally in error". I made no "intentional errors", and if there are accidental ones, I will be pleased to hear about them. I have attached a copy of Smith's notes on this interview. My info on Sarbacher's background came from American Men of Science 11th edition, plus another paper from Smith's files (undated). Copy also enclosed. You can take it from there. I assume "Georgia University" means "University of Georgia" but I may be wrong. I would think that Sarbacher is dead by now and National Science Labs Inc. probably no longer exists. Thirty years is a long time.

As for my self-publishing, I am not convinced that the imprint of Jupiter Publishing makes it obvious to a prospective buyer that Jupiter is me. Without claiming my book is any good, you may not be aware of the fact that some of the world's great literature was initially self-published and was only picked up by a professional publisher after its worth was recognized. I state this only to show that there is nothing wrong with self-publishing.

Anyway, my experiences with Canadian publishers and my reasons for self-publishing are no one's concern. Likewise, the number of copies I have sold is no one's business but mine.

Finally, my concern with Stork was that it was referred to in a Canadian government report (with no mention of BMI) and as I was unable to locate any other mention of Stork, it seemed that it could very well be a significant study unknown to must of us. Finally, when I acquired a copy of Bruce Moccabee's paper Historical Introduction to Project Blue Book Special Report #14, the pieces fell together. He identifies it as "White Stork".

I hope the above clears up a few misunderstandings you seem to have.

Yours sincerely,

Arthur Bray.

STANTON T. FRIEDMAN NUCLEAR PHYSICIST LECTURER

110 KINGS COLLEGE ROAD
FREDERICTON, NEW BRUNSWICK E3B 2E7
CANADA

(506) 457-0232

Dear Bill:

Dec. 1, 1982

I hope that by the time you get this we have heard good news from Putnam s G & D — meanwhile I am sure it has been rough for you settling in to your office....

I am very intrigued by the enclosure from Arthur Bray though I don't like his letter. I called him and found out

- 1. Harry Tokarz also contacted him about a week earlier re Sarbacher...noone else.
- 2. He will check his roughly 1" thick file of material from Smith's file from this time period to see if there are any other indiactions of with whom Smith might have been in contact.
- 3. As you probably already knew he did mention Sarbacher by name in his oral presentation. which means that whoever heard you mention finding Cavitt might have heard him as well and gotten to Sarbacher.
- 4. I called Sarbacher on his yacht no less. Sounded vigorous and cordial. Didn't recall Smith off hand... obviously was a short conversation if his notes are accurate. Agreed to review whatever I sent him. In response to a specific question stated that no-one had approached him to shut up. His view about UFOs is that there are undoubtedly other older planets and therefore intelligent more advanced beings.
- 5. Sarbacher seemed to be ready to meet with me during my February Florida trip.
- 6. Also enclosing Vandenberg log or diary sheets for the 1948 time frame... some interesting notes.
- 7. Note the latter from the Paramus Klass....ugh...even using you as a reference....
- 8. Had a long call from an initially irate Todd Zechel. He had called Peter Gersten who mentioned my wondering about that letter to Todd being a fake... threatens to Sue Roy and you and me... Talked to Roy later who had also had an irate TZ call... Assured him that I would write a letter indicating I would not use any TZ material and would destroy what I had.... and that I wouldn't trust his material as far as I can throw it...expect you will receive a letter as I will.. says Roy. He wasn,t aware of the mixup on the manuscript mailing of your stuff to somebody else....

The Canatom local shrinkage will hurt in terms of secretarial and copy services.... besides the loass of sporadic but useful income.... damn... but the book will come through.....

Hastily,

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 $-i d \epsilon^{\dagger}$

ARTHUR BRAY

1187 AGINCOURT ROAD OTTAWA, ONT. K2C 2H8 CANADA (613) 225-2099

December 2, 1982.

Mr. Stanton F. Friedman, 110 Kings College Road, Fredericton, N.B., E3B 2E7.

Dear Stan:

Re your phone call of November 28th, there is no mention of Vannevar Bush in my W.B.S. papers, other than a reference to the magazine article partly written by Smith (See The UFO Connection, pp 61-65). Smith's papers reveal that this clearance was to be given by Bush. Incidentally, the magazine concerned was "TRUE".

Yours truly,

Arthur Bray.

ARTHUR BRAY

1187 AGINCOURT ROAD OTTAWA, ØNT. K2C 2H8 CANADA (613) 225-2099

January 4, 1983.

Mr. Stanton T. Friedman, 110 Kings College Road, Fredericton, N.B., E3B 2E7.

Dear Stan:

Thank you for your letter of December 14th. I have made an inquiry of the Navy pension office in Ottawa and was informed that Bremner is now dead, assuming it is the same guy, but there was only one Bremner in their records who was a Naval Officer (the initial being W.). They will not give out addresses. Against the rules.

The only other papers I have, identifying any people involved with Smith, are enclosed. You may, perhaps, find them helpful.

Yours sincerely,

Arthur Bray.

STANTON T. FRIEDMAN NUCLEAR PHYSICIST - LECTURER

110 KINGS COLLEGE ROAD FREDERICTON, NEW BRUNSWICK E3B 2E7 CANADA

(506) 457-0232

Notes on Conversation with Donaid Keyhoe, POB 502, Luray, VA 22835 USA, 703-743-6909 Feb. 13, 1983
Don's memory seems not very good. Initially he vaguely remembered me and vaguely remembered Smith. Later in the conversation he seemed to have better recall of both of us. He is working on a book which is long overdue. Was sick for a while. Had moved the stuff at his office at which he hasn't been working for 7 months, into piles and out of the files. Couldn't take any time to go through things. Might be able to dig out some things from 1950-51 worried about having anyone else go through the materials because of stuff given in confidence. Not really using old stuff. Wondered if I was working on a book. Said yes-- focussing on technological ends. Mentioned Roswell Incident. Thinks he has it but doesn't remember what is in it. Vaguely recalls name Bill Moore.

Vaguely recalled Bush's name. Later said he did share materials with Smith both in the US and during a trip to Canada. Can't recall any other Canadians or working with anybody in the USA at that time. Mentioned Dick Hall. I was surprised he know Hall back then.. maybe not that early. Still some files at NICAP.. some dumplication.

I suggested visit by Moore and Friedman if we me tin Washington in March. Reluctant but not final no. Concerned about getting late book done. Talkad as though he wasn't really interested in old material. Probably has stuff whose significance he doesn't appreciate especially like Bray. Most of his material came from airline pilots, military and congressmen and one senator. I asked if perhaps they might be willing to talk now if not way back then... Possibly.

Frankly he sounds somewhat senile but probably has materials that would be useful if Bill and I went through them. Talked about burning the excess files. UGH. Luray is about 1.5 hrs. from DC he says. I said I would send him some things... to try to refresh his memory. not sur e just what I will send. Can I trust him? Will he talk to Dick Hall?

STANTON T. FRIEDMAN NUCLEAR PHYSICIST - LECTURER

110 KINGS COLLEGE ROAD FREDERICTON, NEW BRUNSWICK E3B 2E7 CANADA

(506) 457 - 0232

Notes Phone Conversation with Dr. Robert I Sarbacher, Feb. 13, 1983 His number is 305-833-1116. Yacht Apocalypse, 500 Brazilian Dock, W. Palm Beach 33480

I called to see if he would be in during our Florida Trip and to see if there was any reaction to what I had sent. He does expect to be in , has not really spent any time on what I sent, would be willing to talk in person about what he remembers, is fairly easy to find and has been fighting the flue or a cold for a month.

His labs made a lot of money and he bought several of the insurance companies. I mentioned that there seemed to be a lot missing in his Who's who bio. Such as just what he was working on and for whom. He said That's because most of it was classified". He seemed a little surprised that the Guided R Missile Committee of the Research and Development Board (His involvement) was mentioned. I asked when he was on. Early fifties maybe even late 40's. I mentioned that Bush had been chairman. He said No. not when I was on it. Karl Compton was. Compton took over in 1948. He described himself as kind of a dollar a year man on Government activities... I said a bit like Jimmy Doolittle who was a VP for Shell Oil but spent ½ his time working for the government. He said yes.

Coming down 1-95, get off in W. Palm Beach at Okeechobee , cross bridge and make 2 right turns--first Lake Trail and after one block on Brazilian.. big hedge and right there....

He sounded in much better shape mentally than Keyhoe-- about 10 years younger. It is interesting that he didn't marry for the first time until he was about 47. He obviously had made a lot of money-- bought Wadd or Webb? Labs...Nat. Sci. Labs was very big with branches all over.. sold out.. became Bowzer?? pumps for cars....Sort of unsung but rich.

Mr. William S. Steinman
15043 Rosalita Drive
La Mirada, California
90638
U.S.A.

Dear Mr. Steinman:

This is in reply to your letter of April 19 concerning
the work of Mr. Wilbert B. Smith. Although I had several discussions

This is in reply to your letter of April 19 concerning the work of Mr. Wilbert B. Smith. Although I had several discussions with Mr. Smith he dealt mainly with Dr. Frank T. Davies, Superintendant of the Telecommunications Research Establishment of the Defence Research Board. As you say, he kept his work mainly within the Department of Transportation but DRB did provide him with facilities for some of his work. At a later stage the key experiments in his magnetic theory were repeated jointly by Mr. Smith and Dr. Davies using much more sophisticated techniques than he had originally used. The results of these experiments suggested that

the hypothetical repulsion system that he had envisaged was not workable.

I left defence work in 1956 and have not been in close touch with recent developments. I do not share your faith in the

existence of UFO's but have consistently tried to retain an open

his original ideas had been based on faulty measurements and that

mind and to wait and see. I am still waiting. Good luck with your work.

Yours sincerely

O. M. Solandt

OMS/jmj

OMOND M. SOLANDT

THE WOLFE DEN. R.R. NO. 1

BOLTON. ONTARIO LOP 1AO

August 26, 1983

TELEPHONE 594.4981 (AREA CODE 416)

Mr. William S. Steinman 15043 Rosalita Drive LaMirada, California 90638 U.S.A.

Dear Mr. Steinman:

This is in reply to your letter of August 10. I reply to your numbered paragraphs in which you relate interesting information that you have recently 'dug-up':

- 1. I do not recall any formal team under Dr. Vannevar Bush dealing with flying saucers. I do recall the subject coming up informally in the course of discussions which we held fairly regularly.
- 2. The memo that you refer to was written by Wilbert B. Smith and was presumably classified by him. Mr. Smith did frequently discuss flying saucers both with me and with other more knowledgeable members of my staff.
- 3. As far as I am aware no non-U.S. citizen was allowed access to any material classified higher than top-secret.

As I mentioned in my previous letter DRB did work with Wilbert Smith in testing his theories of one lectral magnetic propulsion. The results were negative. I am sure that these were discussed informally with Dr. Bush but I do not recall any formal report.

Yours sincerely

O. M. Solandt

OMS/jmj

Cug. 26/83. a Steinman en un mont intereste the was delailed as Thank knew nothing & I upour news re Wilherto interprieter / Mil I ques was more involved than Irealized. I Im not purprised if the Umericano cauld not discore th mechanism of the saucers. know they found a monitor & had a rely difficult time getting if open to the couldn't on flage the workings - a new beind of recorder, They never sent let I as sar as I know - to wit but they did inquire if he knew canbything affaut them. it the time elich was importined Ist were sery huse in our community as we centred to prove we ure two cane normal plante. ich une elected a Tristed on hia Village Boast & I towards dancing our Masement - so use meeting natures of our Me established our panity

either one If us to get into the others enterprised, meet anyone with the apoful informati Meet anyone with the apoful information It was a nery interesting time for us I wish I could give you more definite further information but I me to well posted re his thrught easily misconstrue the truth Lam considering a test to Calil in Jeh nest & its with a girl ! friend - I'm not seem where her pister lines - heet I'll lake your mailing address & try to get in Much / with you

William S. Steinman 15043 Rosolita Dr. La Mirada, Calif. 90638

William L. Moore 4219 W. Olive Suite 247 Burbank, Calif. 91505

February 14,1984

Dear Bill:

I recorded (copied) the tape and am returning it to you. (Thanks). Also, enclosed, you will find a copy of that letter from Murl Smith to myself on 8-2683. Please keep in touch, it has been nice working with you on these c/s cases. I think that friedman is a bit overly suspecious of me, thinking that I was interviewing and writing to Sarbacher, for Zechel's Sake. Hog wash!

Enclosures
① Tape
② Letter

Very Sincerely um Deinman

William S. Steinma. 15043 Rosalita Dr. La Mivada, Calif. 90638

Dr. Robert I. Sarbacher C/O 150 Australian Ave. Palm Beach, Floriad 33480

(my 4th Letter to Sarbacher 2nd and 3rd were Just short memmo's) WD' Sept. 12,1983

Dear Dr. Sarbacher:

letters and Telephone conversations to you, dated 5-18-83, 6-15-83, 7-31-83(Tele) 8-10-83, and 8-28-83 (Tele). During that last telephone conversation to you on 8-28-83, you asked me just exactly motified I want pertaining to those recovered flying Saucer cases.

Dr. Sarbacher, as I Stated in my first letter on 5-18-83, I need

the following information from you, if at all possible:

O relate your own experience as pertaining to your own involvement with these recovered flying Saucers - Discription of

Saucers, occupants, names of others involved, places of récoveries, dates of recoveries, etc.

1) Verification that the persons listed, were involved.

@ Thomas Townsend Brown D. Dr. Weisberg

O'Hellmut Schmidt

@ Dr. Robert H. Kent

* @ Dr. John Von Neuman

· (F) Dr. Wernher von Braun

1 Dr. Francis Bitter 6 Dr. Leo A. Ge Baver

* Dr. J. Robert Oppenheimen Dr. Eric Henry Wang

* B Dr. Vannevar Bush.

3 A copy of the official Govt. report pertaining to the Aztec, New Mexico recovery, or any other that you might have access to

a Copies of the Photographs
of the recovered flying Soucers
both at the Crash-Site and

at the laboratory, and Photograp
of the occupants of these
Flying Saucers
(S) Copies of the Official Analysi
reports both on the Saucers
and the occupants.

Please review the previous letters.

and get in touch with me as
soon as you possibly can on this
very important matter.

Very Sincerely Yours

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en S. St. Louis, Jan. 30, profes) S.; B.S. in Bus., U. 3, 1953; children—Nancy, 1. 1933; children—Nancy, cm. Standard Branda Inc., (cmby Co., Chyo., 1973-74; Pare, N.J., 1974-76, treas, hise Inc., Indpia., 1978-79; norse, 1980—Served with action. Meta. Fin. Exces, ma. P. Sigma Phi Epsilon, 1989-1999.

tV. nhysician, surgeon; b. 2 and Netl (Whitele) S.; B.A., a Phytis Dancan, Aug. 11, Knitan, Ph.; Knitan, Ph.; Kulian, Ph.; Langar, modificine Med. Smily praction dir. Gs. Blue Times men, pagel cancer LAUS, 1940-in, Diplomate post of the Compression of Yr. 1971—, former mem. 1971—, former mem. 1971—, former mem. 1977) and gen. 1977) and gen. 1978 Tomasson GA 30286

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SARASON. SEYMOUR BERNARD, psychologist, educator, author: b. Bklyn., Jan. 12, 1919; s. Max and Anna (Silveright) S.; B.A., U. Newark, 1939; M.A., Clark U., 1940, Ph.D., 1942; m. Esther Kropp, May 22, 1943; I dau., Julie Carol. Chief psychologist Southbury (Conn.) Trg. Sch., 1942-46; asst. prof., psychology Yale, 1943-49, asso. prof., 1949-55, prof., 1955—, dir. grad. program clin. psychology, 1948-65, dir. psycho-ednil. chinic, dept. psychology, 1943-70. Mem. Am., Eastern. Conn. psycholo. asson. Author: Psychological Problems in Mental Deficiency, 1949, rev. edit., 1953, 4th edit. (with Dr. John Duris), 1969; The Clinical Interaction, 1954; (with Dr. Thomas Gladwin). Truk: Man in Paradise, 1953; (with Dr. Thomas Gladwin and Richard L. Nasland) Psychological and Cultural Problems in Mental Subnormality, 1958; (with Davidson, Lighthall, Waite and Ruebush). Ansiety in Elementary School Children, 1960; (with Davidson and Blart) The Preparation of Texchers: An Unstudied Problem in Education, 1962; (with Levine, Goldenberg, Cherlin and Bennett) Psychology in Community Settings, 1966; The Culture of the School and the Problem of Change, 1971; The Creation of Settings and Future Societies, 1972; (with F.K. Grossman and G. Zitnay) The Creation of a Community Setting, 1972; The Psychologyia Sense of Community: Prospects for a Community Psychology, 1974; Work, Azing, and Social Change, 1977; (with Carroll, Maton, Cohen and Lorentz) Human Services and Resource Networks, 1977; (with John Doris) Educational Handicap, Public Policy and Social History, 1978; (with E. Lorentz) The Challenge of the Resource Exchange Network, 1979; Psychology Middirected: The Social Scientist in the Social Order, 1931, Home: 136 Hartley St North Haven CT 06473 Office: 70 Sachem St New Haven CT 06520

SARAZEN, RICHARD ALLEN, mfg. co. exec.; b. Bklyn., June 27, 1935; s. Nicholas and Arna M. (Isacco) S.; B.B.A., Hofstra U., 1935; m. Christine M. Horwith, July 27, 1974; children—Richard, Theresa, Mary. Barnara, David, Russell, Christina, Andrea. Acct., Arthur Young & Co., N.Y.C., 1955-58; partner Alexander Grant & Co., N.Y.C., 1953-67; v.p. fin. Seeburg Corp., Chgo., 1967-69; mng. parmer Alexander Grant & Co., Pitts., Los Angeles, 1969-74; exec. v.p. News A.T. Pub., Inc., N.Y.C., 1974-80; chmn. bd. XCor Internat., Ihc., N.Y.C., 1930—8d. dirs. N.Y.C. Center Found, Mem. Am. Inst. C.P.A.'s., N.Y. State Soc., C.P.A.'s. Republican, Roman Catholic. Clubs: Chgo., Athletic, Manhattan, Homer 530 E 72d St. New York N.Y. 10021 Office. 111 Great Neck Rd Great Neck NY 11021

SARBANES, PAUL SPYROS, senator, b. Salisbury, Md., Feb. 3, 1931; s. Spyros P. and Matina (Tsigounis) S.; A.B., Princeton, 1954; B.A. (Rhodes scholar), Oxford (Eng.) U., 1937; LL.B., Harvard, 1960; m. Christine Dunbar, June 11, 1960; children—John Peter, Michael Anthony, Janet Matina, Admitted to Md. bar, 1960; law clk. to Judge Morris Soper, 4th Circuit Ct. of Appeals, 1960-61; asso. Piper & Marbury, Balt., 1961-62; adminstrv. asst. Walter W. Heiler, chma. Marbury, Balt., 1961-62; adminstrv. asst. Walter W. Heiler, chma. Council Econ. Advisers, 1962-61; exec. dir. Charter Revision Comma., Balt., 1961-64; asso. Venable, Baetjer & Howard, Balt., 1965-70; mem. 92d Congress from 4th Dist. Md., 93d-94th congresses from 3d Dist. Md.; mem. U.S. Senate from Md., 1977.—, Mem. Md. Ho. of Dels., 1967-71. Democrat. Greek Orthodox.

SARBIN, HERSHEL BENJAMIN, publisher, lawyer, b. Massillon, SARBIN, HERSHEL BENJAMIN, publisher, Iswyer, b. Massillon, Ohio, Dec. 30, 1924; s. Joseph I. and Sarah Charlotte (Reich) S.; A.B., Western Res. U., 1946; J.D., Harvard, 1950; m. Susan Challeman, July 14, 1973; children by previous marriage—Penelope Sarbin Burke, Richard, Barbara; 1 stepdau., Caroline Cuoley, Admitted to Ill. bar, 1950. N.Y. bar, 1953; asso. firm Lewis and MacDonald, N.Y.C., 1953-58; with Ziff-Davis Pub. Co., 1950—, pub. Popular Photography

Victoria Anne Supervising sr acct. Peat, M.

SARDI, VINCENT, JR., restaurant execut b. N.Y.C., July 21, 1915. SARUL, VINCELNI, JRL residerant exection (S. 1-6), Jay 21, 1913, a. Vincent Sard, pre-med. student Columbia U.; m. 2d. Adelle Ramsey; 2 children. Owner, Sardi's restaurant, N.Y.C. Recipient Sal. Tony award for providing the best transient home and naven for show people League N.Y. Theatres and Producers. Officer 234 W 44th St. New York NY 10036*

people League S. Y. Theatres and Producers. Office: 234 W 44th St New York NY 10936*

SARETT, LEWIS HASTINGS, chemist; h. Champaiga, Ill., Dec. 22, 1917; s. Lew and Margaret (Husted) S.; B.S., Northwestern U., 1939, D.Sc., 1972; Ph.D., Princeton, 1942; m. Mary Adams, Mar. 1, 1944 (div.); children—Mary Nicole, Katharine Wendy; m. 2d, Pamela Thorp, June 28, 1969; children—Will Hastinga, Rense MacLeod, With Merck & Co., 1942—, asst. dir. organic and biol research, 1948-52, dir. dept. med. chemistry, 1952-56, dir. dept. synthatic organic chemistry, 1956-62, exce. dir. fundamental research div., 1962-66, v.p. for basic research, 1966-69; pres. Merck Sharp & Dohme Research Labs., 1969-76, corporate v.p., sci. and tech., 1976-60; expe. linds. Research Inst. Sharp & Dohme Research Labs., 1966-97, exp. Inds. Research Inst., 1968-76; mem. indsl. adv. com. U. Calif., San Diego, 1971—; mem. overseers com. Sch. Public Health, Harvard U., 1979—; adv. com. U. Alexandria (Egypt) Research Center, 1979—; mem. ici. and tech. panel Reagan Transition Team, 1980-81. Trustee Cold Spring Harbov Lab., of Quantitative Biology, 1968-70, Med. Center at Princetoa. Recipient Leo Hendrick Backeland award, 1951, Award of Merit, Northwestern Alumni Assn., 1951, East Union County (N.J.) C. of C. award, 1952, Merck Directors, award, 1951, Julius W. Sarmer Meml. Lectr. award, 1959, award Synthetic Organic Chem. Mfrs. Assn., 1964; William Scheele Lectr. award Royal Pharm. Inst. Stockholm, Sweden, 1964, N.J. Patent award N.J. Council Research and Devel, 1966, Nat. Cystic Fibrosis Research Found, award, 1959; award for research mgmt. Indsl. Research Found, award, 1959; award for research mgmt. Indsl. Research Found. award, 1969; award for research mgmt. Indsl. Research Found. award, 1969; award for research mgmt. Indsl. Research Found. award, 1969; award for research mgmt. Indsl. Research Found. award, 1969; award for research mgmt. Indsl. Research Found. award, 1969; award for research mgmt. Indsl. Research Found. award, 1969; award for research mg

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SARCEANT, HOWLAND H., internat, radio cons., found, exec., h. New Bedford, Mass., July 13, 1911; a. M. Modley and Grace E. (Howland) Sargeant; A.B. summa cum laude, Dartmouth, 1932; A.B. honours sch., Oxford (Eng.) U., 1934, A.M., 1938, B. Litt. (Rhodms scholar), 1940; m. Dorothy Pasthass; children—Kimon, Paul. With Fed. Home Loan Bank Bd., 1935-40; editor Fed. Home Loan Bank Bd., 1935-40; chief dispatent administm. Office Aliem Property Custodian, 1942-47; chief dispatent administm. Office Aliem Property Custodian, 1942-47; chief dispatent administm. Office Aliem Property Custodian, 1942-47; chief dispatent set of state for pub affairs, 1947-51; asst sen, pub, affairs, 1952-51; cons. State Dept. and Ford Found., 1933-51; grea, truster Radio Liberty Com., Inc., 1934-75; dir. RFE/RL, Inc., 1976-77; dir. Commonwealth Fund's Harkness Fellowshipa, 1930—, Pres. Magnesium Devel. Corp., 1945-50. Pres. UNESCO Gen. Comf., Paris, 1951, chmn. U.S. delegations 5th-7th confs. Pres. Dartmouth Alumni Council, 1968-69, mem. advisory com. Grad. Sch. Corporate and Polit. Communication Fairfield U., 1968—; mem. Panel Ideas and Polit. Communication Fairfield U., 1968—; mem. Panel Ideas and Polit. Communication Fairfield U., 1968—; mem. Panel Ideas and Polit. Communication I. Soviet Union, 1976—Trustee Freedom House; men. bd. Internat. Broadcasting, 1971-75. Recipient certificate of appreciation U.S. Army, Superior Service award State Dept., Dartmouth Alumni award. Mem. Asia. Am. Rhodes Scholars, Internat. Radio and TV Execs. Council Fgn. Relations, Am. Fgn. Service Asia., Phi Beta Kappa, Sphina, Kappa Kappa Kappa Cube: Wens Side Tennas (Forest Hills, N.Y.): Dartmouth College. Century Asso. (N.Y.C.). Author: The Representation of the Uni

New York NY 10021

SARGEANT, WINTHROP, author, critic, translator, b. San Francisco, Dec. 10, 1903; s. Winthrop and Geneve (Rixfard) Strained in Europe as musician; m. Jane Smith. Dec. 21, 1935. Violinias, San Francisco Symphony, 1922-24, N.Y. Symphony, 1926-28, N.Y. Philharmonic, 1926-28; music critic Bklyn. Daily Extit, 1934-76, N.Y. Am., 1936-37; music editor Time mag., 1937-39, gen. writer, 1939-45; sr. writer, roving cort. Life mag., 1949-70, gen. writer, 1939-45; sr. writer, roving cort. Life mag., 1949-72, gen. writer, 1939-45; sr. writer, roving cort. Life mag., 1943-49; music critic New Yorker mag., 1949-72, record critic, 1972.—Recipient citation for dissinguished contba. to Am. music Nat. Assa, Am. Composers and Conductors. Mem. Am. Oriental Soc. Cluba: Century Assn., Codfee House (N.Y.C.). Author: Jazz. Hot and Hybrid, 1935; Geniuses, Goddesses and People, 1946; Listening to Music, 1953; In Spite of Myself: A Personal Memoir, 1970; Divas: Impressions of Todays Supranca, 1973; The Bhagavad Gita, An Intertinear Translation from the Sanskrit, 1979; also numerous articles. Contbr. to Eccy. Americana; mem. adv. bd. Am. Heritage Dictionary of Am. Lang. Home Box 755 Salisbury CT 06068 Officer 25 W 41d St. New York NY 10036

SARGENT, DAVID JASPER, univ. dean; b. Macchester, N.H., Aug. 5, 1911; a. Merton Jasper and Marguerite (Riley) S.; student U. N.H., 1949-51; J.D. magna cum Iaude, Suffolk U., Buston, 1954, LL.D. (hon.), 1973; m. Shirley Woodbury Swift, Dec. 21, 1951, Admitted to N.H. bar, 1954, Mass. bar, 1954; 2440, frm Kowal and

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William S. Steinman 15043 Rosalita Dr. La Mirada, Calif-90638

Stanton T. Fried man 110 kings College Rd.
Fredericton, New Brunswick
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March 21, 1984

Rec 3/26

Dear Stan:

I received a letter from Fred Darwin of Dallas, Texas, in which he laid down the history of NDR.C. - O.SRD as it became J.D.RB. and eventually ended up becoming RDB. He gave me names of persons whom he considered to be the most likely condidates for team members on a Flying Savær recovery operation - if there were ever Such a happening". They are as follows: 1) Dr. Vannevar Bush

1 Dr. Karl T. Compton

3) Dr. Lloyd V. Berkner 4) Dr. Robert F. Ringhart

3 Dr. Evic A. Wolker.

6 Dr. John Von Neumann

I did some library research on each individual, and looking up them descendents.

in local area telephone directories. Stan, I believe that the name of that individual, whom Sarbacher mentioned as attending all of the meetings pertaining to recovered flying Savcers, is Dr. Eric A. Walker. Remember sarbacher stating (moore let me hear that tape recording) that this man came from Pennsylvania and wrote a book on Electrical Engineering; well walker, at that time, was President of Penn state university, was formerly head of Penn States electrical Engineering Dept., wrote a book on Electrical, Engineering, and was a consultant (dollar a year man) to J. R. D.B. 1949-1951. He also was in Charge of a Naval laboratory that was developing electronically Sonar guided Torpedos - which were consequently shaving very positive results against the Japanese during WWII. The last residence that I have for him is as follows:

103-1375

1084-100

1084-100

1084-100

1084-100

1086-1831- John

1086-18

I suppose that Moseley contacted you as pertaining to Dr. Robert I. Sarbacher. This only proves one thing to me; Moseley is just as interested in the Crash-Recovery cases as he was in 1954.

Stan, I am not doing research for Todd Zechel, altho I did have an earlier run-in with him, which I later regreted. My main goal is to solve the Flying Saucer Enigma, through the recovery and attempted duplication cases.

out through Dr. Walker, and do keep in touch.

PS. Stan, can you very Sincerely Tell me anything about wm Steinman the "Cosmos" club in. Washing ton D. C. - Everyone of the se Scientists were a member

Notes on discussion with Sarbacher. 8/5/85 305-833-1116 333 Sunset Ave, Palm Beach 150 Australian Ave. Palm Beach

I explained to him that I was interested in UFOs from the scientific and historical standpoint. I couldn't locate records because of changes in recording systems. I explained the problems of archival research. He got the poith that we need a place to start...project name, code number, person. etc.

He said Vannevar Bush would be a great help if still alive...asked if he died. Said Bush was science advisor to Truman.

He said the people who were associated woith teh Research and Development Board (RDB) have scattered over the world. Working for the RDB was not a regular job for him. The RDB had a lot of power in those days, like a little Presidential Cabinet. 'That's why it was a dollar a year job (for him) (note: gave him prestige and also a clearance). Run by Carl Compton, former president of MIT, good friend of Eisenhower. It was set up by him That id what OI was associated with around 1950 or a little later, he says.

Regarding himself: "There is something I should have done but didn't do. I had had a request to visit a site...(thinks request came from Wright Field or that the site was Wright Field)...regarding a fallen..a UFO and at that time could not go....tied up with personal business. But some of the men did go. Our headwaarters were in old Navy temporary buildings on Constitution Ave. Some of the men went. I went to the office some time after they got back and talked to some of the guys who saw it. I wish I could have gone."

He was a revidently a consultant in missile guidance and worked only occasionally on special problems. He was on the guidance and control committee. He had his own private business. a small laboratory. He did work for the government from time to time but still had to run his own lab. "I can't remember some of those guys. they were at least 30 years old at the time, maybe some around 40 or 50. Some of them must be around. You should try to contact them."

Bletchman called him after the OMNI article came out and asked if he would be willing to talk to people. He said he was being asked constantly about the stuff in the letter to Steinman. He keeps getting letters constantly from people who write sensational UFO stories. Sometimes they come by and see him. When he gets a chance he answers letters.

I asked him to relate his impression of what the men told

him they saw at Wright Patterson.

"My impression of what the men said who took the trip to Wright Field: the 'people' who operated those things were built different than we, they seemed to have no inertia, seemed to be like insects, maybe they were robots (this seemed to stick particularly in his mind)...that was all that was said .. (orall he could remember).

Problem is to find out who was on the RDB in those days... thinks it was Eisenhower who set it up and was killed by the next president

Thinks it was killed by Johnson. not Kennedy who was a good friend of Sarbacher... Kennedy better educated... Johnson was nastier and less well educated. Kennedy an all American Boy... Johnson may have killed the RDB. It was a good idea...seems like Republicans have better educated cabinets, more imaginative.

Didn't know Wilburt Smith..or at least didn't seem to remember the name...said there were a lot of guys back then who talked to him...and has never read any UFO book including the ones written by people who have talked to him.

Said he would call me if he thinks of more (I gave number).

(NOTE: He died in the summer of 1986. Never did call back.)

PO Box 266 Oroville WN 98844

Ph. 604-493-6512

FAX 604-493-0979

Sept. 23, 1992

Wm. L. Moore, Ed. FAROUT

Dear Mr. Moore;

Following the trail of one Canadian scientist who studied UFO propulsion leads to Australia and tales of threats against a man's family.

As you probably know, the late W. Smith was an electronics/radio scientist back in the 1950s when he was commissioned by the Canadian government to investigate the UFO problem. Among other aspects, his research was directed into finding out how UFOs operate.

His theory was that the UFOs generate a "magnetic sink" in Earth's magnetic field, providing inexhaustible free power and levitating reaction forces.

You have also probably heard that a recently-surfaced copy of Smith's original reports indicates he had built a working model of his "magnetic sink".

The mystery is: what became of Smith's working model? And did he ever build a larger unit, as was his stated intent?

I have the contacts in the "free energy" community in Canada to follow up on this story. Would FAROUT be interested?

Alternate query: would FAROUT like an article on the "antigravity" work of John Hutchison of Vancouver BC? I wrote the enclosed article requested by Electric Spacecraft Journal under less than optimal conditions, and they further shortened it, as well as changed names. The result was rather choppy writing. I can do much better.

As a professional journalist (feature writer for a daily newspaper, freelance magazine writer, fiction writer etc.) I CAN write in FAROUT's light, sceptical, hip style.

I'm usually the only journalist at the non-conventional science meetings I attend, such as Swiss Assoc. for Free Energy symposium in 1988; Hans Neiper's Gravity Field Energy Assoc. meeting in 1987; Planetary Assoc. for Clean Energy; Tesla symposia, etc.

And I take photographs. I'm hoping we can work together.

Lincerely, Jeane Manning

Tistory of the Defence Research Board of Canada make use of environment or resources which are unique to

place research projects where they can be carried out most ely, whether in DRB establishments, other Government nents, universities, or industry,

maintain flexibility in programmes as events may warrant, place the research emphasis on the medium and long-range ments.

, therefore, and only as a broad generalization which will ertain amount of overlapping and some exceptions, it is defence research projects will be allocated in three different esearch is likely to go to universities, some other Government and to certain DRB establishments; applied research is carried out in large part within the laboratories of the arch Board; and engineering development is likely to be anadian industry.

have now seen, in some detail, what has happened within the first ten years of its existence, and we have considered fluence and the interrelationships of the Defence Research the Department of National Defence, other Government adian industry, Canadian universities and the defence and rammes of this country's major allies. From all of this it emerges that the Defence Research Board is now a vitally tor in Canadian defence and in Canadian scientific life. The ich have guided the Defence Research Board have been it has been seen that not even such principles are necessarily inally we have ventured to hazard some sort of guess at too-distant future is likely to hold for DRB.

ns, of course, are at the best a risky business. Trends which apparent today and which appear to be in full flood have an habit of trickling out into nothingness amid the sands of And conversely new considerations which today cast not the ethem may later arise to dominate the situation and make our most confident forecasts. We have, in fact, a firm grip to the past. But when that past has been as good and as full evement as the past of the Defence Research Board there is to be confident of the future. There is thus little doubt times, being constant only to its aim of providing the need Forces with the best scientific support which can be had.



APPENDIX "A"

DEFENCE RESEARCH BOARD MEMBERS

| Marshal C. R. Slemon April 1, | Dr. H. D. Smith | H. G. Welsford April 1, | Dr. L. C. SimardApril 1, 1952 | *Dr. E. W. R. SteacieApril 1, 1952 | *Mr. A. H. ZimmermanFebruary 1, 1952 | LtGen. G. G. SimondsFebruary 1, 1951 | Vice Admiral E. R. MainguyDecember 1, 1951 | Dr. A. R. GordonApril 1, 1951 | Mr. E. Ll. DaviesDecember 1, 1950 | Dr. A. E. Cameron April 1, 1950 | : | Dr. R. F. Farquharson April 1, 1949 | : | Mr. C. M. DruryJanuary 1, 1949 | Air Marshal W. A. CurtisSeptember 1, 1947 | Vice Admiral H. T. W. GrantSeptember 1, 1947 | April 1, 1951 | Dr. G. M. ShrumApril 1, 1947 | Dr. J. H. L. Johnstone April 1, 1947 | April 1, 1953 | Col. R. D. Harkness April 1, 1947 | • | | Dr. C. H. BestApril 1, 1947 | | - Dr. C. J. Mackenzie April 1, 1947 | Mr. W. G. MillsApril 1, 1947 | Air Marshal R. Leckie April 1, 1947 | Gen. C. FoulkesApril 1, 1947 | - Dr. O. M. SolandtApril 1, 1947 | Vice Admiral H. E. ReidApril 1, 1947 | FROM |
|-------------------------------|-----------------|-------------------------|-------------------------------|------------------------------------|--------------------------------------|--------------------------------------|--|-------------------------------|-----------------------------------|---------------------------------|----------------|-------------------------------------|----------------|--------------------------------|---|--|----------------|------------------------------|--------------------------------------|----------------|-----------------------------------|----------------|----------------|-----------------------------|----------------|-------------------------------------|------------------------------|-------------------------------------|------------------------------|----------------------------------|--------------------------------------|------|
| (acceased 1/33) | March 31, 1956 | March 31, 1955 | March 31, 1955 | | | August 31, 1955 | December 31, 1955 | March 31, 1954 | December 31, 1954 | March 31, 1953 | March 31, 1953 | March 31, 1952 | March 31, 1952 | July 31, 1955 | March 31, 1953 | November 30, 1951 | March 31, 1954 | March 31, 1950 | March 31, 1950 | March 31, 1956 | March 31, 1949 | March 31, 1951 | March 31, 1951 | March 31, 1949 | March 31, 1960 | March 31, 1952 | December 31, 1948 | August 31, 1947 | January 31, 1951 | February 28, 1956 | August 31, 1947 | To |

Appendix "A"

| Mr. R. G. MacNeill | *Maj. Gen. H. D. GrahamSeptember 1, 1955 *Vice Admiral H. G. DeWolfJanuary 1, 1956 Dr. W. J. ArchibaldJune 7, 1956 Mr. H. H. LankJune 7, 1956 Dr. T. IngledowApril 1, 1957 *Dr. J. E. KeystonJune 1, 1957 Dr. G. S. FieldAugust 1, 1957 | DEFENCE RESEARCH BOARD MEMBERS—continued FROM Mr. R. W. Diamond |
|--|---|---|
| September 30, 19. June 30, 1952 July 31, 1953 July 31, 1954 May 31, 1955 | March 31, 1959 March 31, 1959 March 31, 1960 July 31, 1960 | RS—continued To March 31, 1957 March 31, 1958 March 31, 1958 |

APPENDIX "B"

| DRNL | DRML | ORG | DRTE/RPL/EL | DRKL | DRCL | GIES | CARDE | NRE | PAST AND PRESENT (|
|---|---|--|--------------|----------------|-----------------|--|---|---------------------|--|
| Dr. K. C. Fisher 1949-1951 Dr. D. B. W. Robinson 1951-1954 A. M. Pennie 1954-1956 Officer-in-Charge, 1956-Present Albert E. Cooney 1956-Present | Dr. M. G. Whillans1948-1955 Dr. E. A. Sellers1955-Present | Dr. N. W. Morton1947-1952 Dr. J. W. Abrams1952-1954 Dr. William Petrie1954-Present | F. T. Davies | Dr. G. B. Reed | Dr. E. A. Flood | Director of Projects, Dr. C. A. Mitchell1949-Present | Dr. D. C. Rose 1946-1947 Dr. W. B. Littler 1947-1949 Professor Carleton Craig 1949-1952 Dr. H. M. Barrett 1952-1955 Brigadier D. A. G. Waldock 1955-Present | Dr. G. H. Henderson | PAST AND PRESENT CHIEF SUPERINTENDENTS AND SUPERINTENDENTS |

| DRM (Washington) | DRM (London) | PNL | SES S |
|------------------|-------------------|-------------------|---------------|
| A. L. Wright | Col. G. M. Carrie | Dr. F. H. Sanders | E. Ll. Davies |

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As seen previously. I was successful in tracking down dormant files in both DOC and DND, as well as current files.

In a letter from the Department of External Affairs, I was infermed that "the Canadian Government does not underestimate e seriousness of the question of UFOs and this matter is bein ept under consideration and study in a number of departments and agencies". 25

Why the apparent lack of interest in UFOs by the Ministry of Transport? Why the "disappearance" of secret files? Why was I given such a run-around in trying to uncover the contents of government files on UFOs?

I am thoroughly convinced that the Government of Canada was engaged in a cover-up operation. Of course, the lack of information could simply have been incompetence and plain bumbling on the part of all Ministers of the Crown and public servants concerned, but I cannot honestly believe that all the high officials I contacted were really that incompetent. The only explanation, in my view. is a deliberate cover-up. My many years of badgering the government on this leaves me no alternative conclusion. For a number of years I deliberately avoided such a conclusion in the hope that I was wrong. I can no longer avoid it.

Cover-up of UFO facts is not unique to Canada. It exists around the world and a very large number of documents have recently been released by the FBI and CIA in the U.S.A. under the Freedom of Information Act. which is positive proof of secrecy having been maintained over a period of thirty years.

Ufologists are familiar with the case of a 3000 pound mass of metal reported to have fallen from the sky under very strange circumstances near Les Ecureuils on the St. Lawrence River in 1960. Government scientists are the first to admit this was not a meteorite and claim it is foundry slag. However, at least eight separate analyses have been undertaken on samples of this metal and all results differ significantly. One university professor said he was "disturbed" by the results. A full report of this interesting case, written by myself, will appear soon in the Encyclopedia of UFOs to be published by Doubleday (New York).

Much interesting information has now been brought into the open, however, with the release of the Canadian Government files referred to. More facts from these files will be brought to light in the next chapter.

Brank book

CHAPTER 7

PROJECTS MAGNET AND SECOND STOREY

"We are faced with a substantial probability of the real existence of extraterrestrial space vehicles" was the conclusion of a leading Canadian radio engineer in his report on a three year study of UFOs.

Established in 1950 by the Department of Transport. PRO-JECT MAGNET was the first Canadian government investigation into UFOs, according to available records. It was under the direction of Mr. Wilbert B. Smith, Senior Radio Engineer, Broadcast and Measurements Section of that Department. Mr. Smith was already internationally recognized in his field of radio communications, held a number of patents and had received a number of awards for his work in radio. He was a graduate of the University of British Columbia, having received both the B.Sc. and M.Sc. degrees in Electrical Engineering. He had represented Canada at the Canada-U.S. FM Broadcasting Agreement in 1947 as well as at other international conferences. He was in charge of establishing a network of ionospheric measurement stations throughout Canada.

Project Magnet was a small program using Department of Transport (DOT) facilities with the assistance of other government organizations including the Defence Research Board (DRB) and National Research Council (NRC).

Much has been written and spoken about Project Magnet over the years but a large proportion of this has been misleading, incomplete or inaccurate. In this chapter I will attempt to set the record straight, using official government documents as sources of my information. The information in some of these documents has never before been made public.

In addition to the government files I have reviewed. I have been privileged to obtain certain other material and information for which specific references cannot be cited due to the need to protect my sources.

The project was an outgrowth of work already being done by Smith and a small group of engineers on the collapse of the Earth's magnetic field as a source of energy. It was believed that

56



Wilbert B. Smith

"Flying Saucers" were operating on magnetic principles and it seemed that this work might explain the saucers operation. Smith had been informed by highly-placed sources that flying saucers are indeed real, that they are almost certainly of extrater-restrial origin and that they operate on a magnetic principle. Just how this principle actually operated was unknown.

Early in 1950. a book by Frank Scully (Behind the Flying Saucers) claimed that flying saucers had crashed in the USA and that the US Air Force had retrieved them along with the dead bodies of their occupants. Although some people have claimed that Scully's book was a hoax. Smith was informed by a certain top American Scientist who was deeply involved in UFO research for the US Government, that "the facts reported in the book are substantially correct".

On November 21, 1950. Smith submitted a proposal to the Controller of Telecommunications to set up a special project within the Department. He stated in his proposal that his group believed they were on the track of something which may well prove to be the introduction to a new technology. It appeared that their work in geomagnetics might well be the linkage between our technology and the technology by which the saucers are designed and operated.

The study of UFOs. or flying saucers as they were called in those days, was of tremendous interest at top levels of the US Government, and Smith was informed that the matter was the most highly classified subject in that government, rating higher even than the H-bomb. Top officials were aware of their reality, he was also told.

Smith had discussed the work of his group with Dr. O. M. Solandt, Chairman, Defence Research Board, who agreed that work on geomagnetic energy should go forward as rapidly as possible and offered full co-operation of his Board, according to Smith's proposal.

The project was classified, and for several reasons. The exchange of information with other parallel classified projects could thereby be facilitated; scientific personnel working along unorthodox lines prefer to work in camera until their results can be proven; and furthermore, in the event that a new technology should be uncovered, its implications would have to be carefully assessed before pertinent information could be made public.



The truth of the matter seems to be that North American Ufologists, in general, have ignored this work by Constable. How do we know if his work is accurate, and truthfully reported, without attempting to repeat it? We have tended to assume it is all nonsense, and ignored it. I congratulate those few who have pursued this matter. It seems that Ufologists generally have considered Constable's theory and work to be too "far out" to warrant serious consideration. Can anything really be too "far out" in Ufology?

Eighteen years after his first book was published, (reference 5) during which interval we ignored him, he followed up with a second book. (Reference 6). This has also been generally ignored. Now Constable has retired from Ufology. (Reference 7). Could it be that he got tired of his work being ignored? As he said "No more /UFO research/....let somebody else do it. I've given the public an overdose so it lake another twenty years to go down." (Reference 8).

In September 1978 I wrote to one of the leading UFO organizations in the U.S.A. suggesting they undertake a research project to verify Constable's work. Where is the indication that this has been done? My suggestion was evidently ignored. It happens that our Italian friend previously referred to submitted his photographic evidence to the same organization in July 1978 and as of December last had also not even received a reply, although he did receive confirmation from an independent source that his letter and photo had in fact been received. (Reference 9).

Two other examples of failure to pursue new leads involve some information divulged by myself in my second book. (Reference 10).

First, I referred to a Project Stork in the U.S.A. which was identified in a Canadian government report on UFOs to which I acquired access. We are all well aware of Projects Sign, Grudge, Bluebook and Twinkle. But Project Stork? It obviously existed as it is mentioned in this official Canadian government document, a copy of which is in my possession. If anyone has pursued this matter to find out more about it, why has it not been reported in the literature? I can only assume that this item of new information has been taken with the proverbial grain of salt.

Secondly, we have the matter of the famous (or infamous) Frank Scully who created a sensation in 1950 with his startling book. (Reference 11). All sorts of reports have appeared over the intervening years stating that this book has been proved to be a hoax, that Scully admitted it was a hoax, etc. (Reference 12). So everyone now accepts that as fact. However, I also reported in my book (reference 13) that just shortly after the appearance of Scully's book, Wilbert B. Smith, the late great Canadian Ufologist, was informed by a top American scientist who was deeply involved in UFO research for the U.S. Government, that "the facts reported in the book /Scully's are substantially correct". The notes made by Smith recording this interview are in my possession. No one has contacted me for further information on this



gem in order to pursue it. This statement was made by this top scientist in a key position to know. Perhaps, just perhaps, the admission by Scully (if he in fact admitted a hoax) and all the other stories, may be false. Or maybe pressure was applied to Scully to force an admission. It has happened before. Do we know for a fact that Scully's story is untrue?

Although it appears that many of Scully's <u>details</u> were untrue, such as Silas Newton possessing pieces of a saucer, etc., perhaps the basic story of a crashed saucer itself is true. It may be more than mere coincidence that twenty-seven years later, Stringfield and Zeckel uncovered independent claims by apparently reputable people concerning a saucer crash in New Mexico. These reports, if true, could vindicate Scully. (References 14 and 15). I agree with Stringfield where he says "Perhaps we should take another look at Scully and his book....".

If anyone out there has sufficient interest to pursue this matter, the scientist who made that startling statement was Dr. Robert I. Sarbacker, Dean of the Graduate School at Georgia University. and Director of Research, National Science Laboratories Inc., Washington, DC.

The foregoing examples clearly demonstrate how facts are ignored when it is thought they don't "fit in". If we are going to be truly professional, we have got to improve the quality of our research, and that includes not sweeping facts under the rug just because we may not like them. This sort of thing often occurs because of the will not to believe. A new fact comes along, which does not fit in with our present knowledge, so we don't believe it, and cast it aside. We must be more objective and take a mid-way view, neither believing nor disbelieving. One extreme is as bad as the other. But the next step is to follow-up, to find the truth of the matter, rather than ignoring the misfitting facts.

Another example of lack of professionalism pertains to Len Stringfield and his Crash/Retrieval Syndrome. Stringfield deserves high praise for his work, which is still in progress, in uncovering so many leads. Yet, before he has even completed his work, we have the critics biting at his heels. I won't mention names as those who are familiar with the literature will know who I mean. If they must attack him, why can't they at least have the courtesy to wait until he has completed his research, and then try to prove him wrong? Stringfield has performed a great service and he has been most courteous in providing progress reports for the Ufological community. I suspect that most, if not all, those who will not accept that military personnel can keep quiet (particularly retired military personnel) have never served in the military, or if they did, were never privy to highly-classified information. I know that such people can keep quiet, having served in the military myself for twenty-eight years and having for a part of that time the highest security clearance possible. Secrets can be, and are, kept, let me assure you. So let's stop sniping at Stringfield and help and encourage him to get on with his work so that he can complete it.

G. BANKERS N.L.

during his stay in that area. I understand Dallas was the next major stop. My dad died under somewhat mysterious circumstances just a few months after Kennedy. I was quite verbal at the time, and feel I just narrowly missed personal harm. I do not wish to open that area up again.

Very truly yours, (Name witheld)

Leading Scientist Tells Alli

Dear Grava

I recently received a letter from a currently prominent and very active scientist, who presides over a major American university. This scientist acknowledged that the United States Government DID RE-COVER THREE FLYING SAUCERS between 1947-50.

He named names, gave descriptions, told dates and places of meetings (which he attended) pertaining to these recovered Flying Saucers. The purposes of these meetings were to determine:

- 1. Just exactly what they did recover.
- 2. Who manufactured them. 1997

3. Where they came from.

4. How much the American public should know concerning this.

The outcome of the meetings:

We do not know what we have.

(2) We do not know who manufactured them.

(3) We do not know where they came from.

(4) The subject matter was to remain the most highly classified subject matter in these United States.

Hence certain diversionary measures were set up to draw public attention away from the truth pertaining to Flying Saucers:

1. Sign, Grudge, Bluebook.

Robertson Panel, Condon Study.

3. Civilian study groups, etc.

Now, beacuse of what this scientist says, "The cat is out of the bag." In a few short months the 35year-old security lid will be lifted, the public will know the truth, and perhaps a new "Pandora's Box" will be opened. But this is what we all have been anxiously waiting for these past 35 years. Now, we must determine where we go from here.

Please publish this in your next NEWSLETTER. William S. Steinman, 15043 Rosalita Dr., La Mirada, 10A 90638. Charles was like they be personed a properties

I am looking for a book, The Impending Golden Age, by the Sanctilean Syntonium, Trails Press, Coolidge, AZ, 1958.

In this book Benjamin Franklin who was a Mason set the date for the end of the world at 1983:

2520 Years

-537 B.C

1983 A.D.

1983 A.D. Sincerely, Raymond Earl White, 213 North Wellington St., South Bend, IN 46619.

Can anybody help Mr. White? The only thing from Sanctilean in my library is a booklet titled Flying Saucers - Portents of These Last Days. - G.B.

Saucer Smear

I agree with much of the text in Issue #18 which, praised the literary and intellectual level of James' W. Moseley's publication, Saucer Smear. I also enjoyed the rest of it, though most readers will not not get the point of the ridiculous claims made about Moseley's alleged intelligence background.

It takes a bit of perception to see through this:

Moseley has recently purchased a large, two-story building in Key West, Florida, and is converting the top floor into antique shop known as Rose Lane Antiquities. This is way off the beaten track for a successful antique shop. It sounds to me like an excellent "storefront" cover for an intelligence operation.

Very truly yours, (Name & address witheld)

Dear Friend:

I suppose we (of the old UFO gatherings or meetings) - those of us who attended the lectures, believed the same and are still living - may not be remembered by writers as yourself. These people may have been forgotten, and since it's been long, some have passed on. They were very concerned and looked up into the night sky, some not caring if they originated over the mountain in some hidden place or otherground. They knew there was some truth about it all and felt like not being left out of progress. It is too bad those of the past could not have stopped aging, but carried on in their hopes and plans with future generations. Many lost faith when a big hushup came along. But now, when much news tells the public more on outer space, the young are taking an interest.

Will be writing, C. A. Gabaldun, Box 776, Paramount, CA 90723.

NATIONAL UFO CONFERENCE

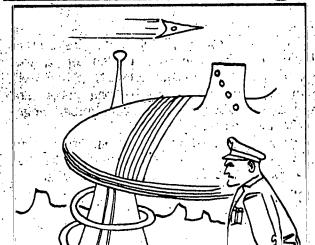
The 21st Annual NATIONAL UFO CONFERENCE will be hosted by the United Aerial Phenomena Agency (UAPA), the weekend of Sept. 22, 1984, at the Country Inn, 4181 W 150th, Cleveland, OH 44135. The Country Inn is at I-71 and W. 150th, just 3 minutes from Cleveland Hopkins Airport.

UAPA will host a UFO Banquet on the evening of Sept. 21 at the Inn; a Closed Session from 1 to 4 p.m. and a Public Session from 7 to 11 p.m. on Saturday, Sept. 22, also at the Inn.

Write: Convention Headquarters, 3001 Colburn Ave., Cleveland, OH 44109; or telephone (216) 741-9388.

AUCTION: GOVERNMENT SURPLUS

Miscellaneous lots of: Circular airfoils, unassembled ca 1950; Simuulated rigid aircraft 150 ft. x 20', folds to go on trailer truck (not included); 32 Mannequins, small, children-size 4' (facials need repainted); 1 lot Mens' suits, asstd. sizes, black; More too numerous to mention. Wednesday, June 6, 1:00 - 5:00 p.m. J. L. Crater, auctioneer, 524 Rose Lane, Key West, PL 33040.



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SARBACHER, ROBERT IRVING, scientist: b. Balt., Sept. 6, 1907; Joseph Conrad and Georgiana (Duffy) S.; diploma Balt. Poly. Inst., 1926; student Johns Hopkins, 1928; S.C.B., U Fla., 1933; E.E., 1951; pougrad. Princeton., 1934; Sc.M., Harvard, 1936, Sc.D., 1939; m. Ehrabeth Kampmann Brown, 1954 (div. 1963); I dau., Roberta; m. d. Mary Frances Dromb Brown, 1954 (div. 1963); I dau., Roberta; m. d. Mary Frances Phillips Turner, Sept. 1975; I stepdau., Mary Frances Turner, Instr. physics and communications engring. Harvard, 1941; dean Grad. Sch., Ga., Inst. Tech., 1940-42; sci. cons. Nevy Dept., Washington, 1941; dean Grad. Sch., Ga., Inst. Tech., 1945-49, chmn. grad. council, mem. adminstry. coluncil and exec. com., 1945-48; pres., dir. Washington Inst. Tech., 1950—Nat. Sci. Loss., Inc., 1949-54; pres. Gra Sci., Cong., pres., dir. Sw. Union Life Ins. Co., United Fed. Life Ins. Co., United Life Ins. Co., United

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SAPHIR, DR. OTTO, Michael Roese Hospital, 29th St. & Ellis Ave, Chicago, Ill. PATHOLOGY. Vionna, Austria, Aug. 29, 96, nat; m. 25; c. 2. M.D. Vionna, 21. Intern, Allgomoines Krankenhaus, Vienna, 21-22, asst. path, 22-23; Hanna fellow, sch. med, Western Ressorve, 23-24, from instr. to asst. prof. PATH, 24-29, from asst. prof. to assoc. prof. COL. MED, ILLINOIS, 29-42, CLIN. PROF. 42-Res, Cleveland City Hosp. 25-27, pathologist, 27-29; Michael Reese Hosp, 29- Civilian with U.S.A; U. S. Pub. Health Service. Soc. Exp. Path; Soc. Path. & Bact; Col. Path; Soc. Cancer Ressarch; Soc. Clin. Path; Am. Med. Asn; Ill. Soc. Path. (pres, 45); Chicago Path. Soc. (pres, 41). Various phases of pathology including the pathology of the heart, tumors and cancer.

BAPIRSTEIN, DR. LEO A(BRAHAM), National Cancer Institute, Bethosda, Md. PHYSIOLOGY. New York, N. Y. Oct. 6, 19; m. 46. B.S., Col. City of N. Y. 37; M.A., California, 40, Ph.D. (physiol), 43, M.D. 46. Chemist, west, regional research lab, bur. agr. & Induction, U. S. Dept. Agr., 40-42; instr. physiol, med. sch. California, 43-44; intern, U. S. Marlne Hosp, 40-47; SR. ASST. SURGEON, NAT. CANCER INST, U. S. PUB. HEALTH SERVICE, 47- Guest lecturer George Washington, 48- U.S.A, 42-45. Physiology of experimental hypertension; mechanism of folic acid actions.

SAPLIS, RAYMOND A(LFRED), U. S. Geological Survey, Washington 25, D. C. GEOLOGY. Belvedere, Calif, Aug. 4, 22. B.S. Calif. Inst. Tech, 44. Jr. geologist, Tamarack & Custer Cons. Mining Co, Idaho, 44; GEOLOGIST, MIL. GEOL. BRANCH, U. S. GEOL. SURV, 46- Inf, 44-46. A.A.

SAPP,DR. ROBERT W(ALL), E. I. du Pont de Nemours & Co, Parlin, N. J. ORGANIC CHEMISTRY. Albany, Ga, Oct. 30, 13; m. 37; c. 2. A. B., Duke, 34; A. M., Illinois, 35; Harvard, 38-39; Ph. D. (chem), Stanford, 40. Anal. chemist, Dow Chem. Co, 36-37, research chemist, 37-38; Hercules Powder Co, 40-47; SR. RESEARCH CHEMIST, PHOTO PRODUCTS RESEARCH LAB, E. I. DU PONT DE NEMOURS & CO, 47- Chem. Soc. Plasticizers; insecticides; alkaloids; resins from terpenes and rosin; synthesis of color developers.

SAPPENFIELD, DR. BERT R(EESE), Montana State University, Missoula, Mont. PSYCHOLOGY. Ind, Jan. 2, 12; m, 37; c, 1. B.A. DePauw, 35; M.A. N. Y. Univ, 38, Ph.D. (psychol), 41. Asst. psychol, N. Y. Univ, 35-39, 40-41, psychol, examiner, 36-39; sec'y cmt. tests, Life Office Management Asn, 39-40; instr. PSY-CHOL. MONTANA, 41-44, 46, asst. prof, 46-48, ASSOC. PROF, 48-A.F, U.S.A, 44-45. Assoc. Psychol, Asn. Attitudes; academic prediction; group Rorschach; block design test.

SAPPINGTON, DR. CILARENCEB O(LIJS), 330 S. Wells St. Chicago 6, Ill. INDUSTRIAL HYGIENE. Kansas City, Mo, Sept. 29, 89; m. 20; c. 1. A.B. Whitman Col. 11; M.D. Stanford, 18; fellow. Harvard, 22-24, Dr. P. H. 24. Asst. res. physician, San Quentin Prison, and chief surgeon, Pacific Coast Shipbuilding Co, Calif, 19; teaching fellow indust, hygiene, sch. pub. health, Harvard, 22-24; med. director, Montgomery Ward & Co, Calif, 24-28; director indust. health div, Nat. Safety Council, 28-32; CONSULTANT, INDUST. HYGIENE AND OCCUPATIONAL DISEASES, 32- Asst. surgeon, U. S. Pub. Health Service, 20-; lecturer, Stanford and California, 24-28. Special ed. indust. med, 'Calif. & West. Med'; consultant and ed. in chief, 'Indust. Med,' 32- Wm. S. Knudsen award, 38. Mem. Indust. Hygiene Foundation, Del, Int. Hygiene Cong, Dresden, 30, Fel, Am. Med. Asn; fel. Pub. Health Asn; fel. Asn. Indust. Physicians & Surg; Indust. Hygiene Asn, Chem. Soc; fel. Acad. Occupational Med; fel. Cent. States Soc. Indust. Med. & Surg. (pres, 42-43); Calif. Med. Asn; fl. Med. Soc; Ill. Acad. Industrial hygiene in factories and mines; measurement of air contaminants, dust. gases, vapors, fumes, illumination, ventilation and irritating skin chemicals; medicolegal phases of occupational diseases; essentials of industrial health.

SAPPINGTON, DR. SAMUEL WATKINS, Box 528, Bryn Mawr, Pa. PATHOLOGY. Philadelphia, Pa, Jan. 3, 74; m. 17. M.D. Hahnemann Med. Col., 97, hon. Sc.D, 41. Demonstrator, HAHNEMANN MED. COL., 60-05, assoc. prof., PATH. AND BACTER, 05-07, prof., 07-47, EMER. PROF, 47- Fel. Am. Med. Ass; fel. Col. Physicians; fel. Col. Path; Soc. Immunol; Soc. Bact. Arteriosclerosis; hematology.

SARASON, DR. SEYMOUR B(ERNARD), Yale University, New Haven, Conn. PSYCHOLOGY. Brooklyn, N. Y. Jan. 12, 19; m. 43. B.A. Newark, 39; M.A. Clark, 40, Ph.D. (psychol), 42. Exten. psychol, Worcester State Hosp, Mass, 41-42; chief psychologist, Southbury Training Sch, Conn, 42-46; RESEARCH ASST. AND ASST. PROF, YALE AND INST. HUMAN RELATIONS, 46-Summers, visiting lecturer, California, 47; Pa. State Col, 48. Fel. Psychol. Asn; Conn, Psychol. Soc. Personality and perception; diagnostic patterns;

psychological tests.

SARBACHER, PROF. ROBERT I(RVING), Wedd Laboratories, Inc., 2010 Massachusetts Ave, N.W. Washington 8, D. C. BLECTRONICS, COMMUNICATION ENGINEERING. Baltimore, Md, Sept. 6, 07. Sc. B, Florida, 33; Princeton, 33-34; Sc.M, Harvard, 35, Sc.D, 39. Elec. engineer, elec. Rosearch Products, Inc, New York, 20-31; instr. physics and communication eng, Harvard, 38-40; prof. elec. eng, Ill. Inst. Tech, 40-42; director research and develop, aircraft, radio and radar div, Navy Dept, 42-45; dean grad. sch, chairman grad, council and mem. admin. council and exec. cmn, 63. Tech, 45-48; CONSULTING SCIENTIST AND DIRECTOR, WEDD LABS, INC, 48- Director, Robert I. Sarbacher & Associates, Ga. and Wash, D. C, 36-; instr, Radcilife Col, 37-39; prof, Harvard,

41; institutional rep, Oak Ridgo Inst. Nuclear Studies, 46-48. Trustee, research foundation, Ga. Tech, 46-48. Mem. advisory council, War Assets Admin, 47. A.A.; Physical Soc; Inst. Elec. Eng; Math. Soc; Inst. Radio Eng; Soc. Eng. Ed; Soc. Mil. Eng. Electron tube of high power; electron tube oscillators with emphasis on microwave generation; ultra-high frequency technics; hyper and ultra-high frequency engineering.

Commence of the second second second

SARBER, R(AYMOND) W(ILLIAM), Parke, Davis & Co. Detroit 32, Mich. MEDICAL BACTERIOLOGY. Hammond, Ind, April 15, 16; m. 37; c. 1. A.B. West, Mich. Col. 38; Michigan, 39-40; M.S. Cincinnati, 41. Asst, bacter, Michigan, 40; asst, prof. col. pharmacy, Cincinnati, 40-42; consultant, Clopay Corp. 41-43; RESEARCH BACTERIOLOGIST, PARKE, DAVIS& CO, 42- Soc. Bact; Mich. Acad; Detroit Physiol. Soc. Tuberculusis; antigens and tuberculus; pertussis antigens; germicide testing methods; biological and chemical tuberculusis antigens.

SARCHET, BERNARD REGINALD, Roppers Co, Inc. Box 37, Oil City, Pa. CHEMICAL ENGINEERING. Byesville, Ohio, June 13, 17; m. 41; c. 2. B.Ch. B., Ohio State, 39; M.Ch. B., Delaware, 41. Grad. asst, Delaware, 39-41; operator, eng. & construction div, KOPPERS CO, INC, Pittsburgh, 41-42, gen. foreman, butadlene div. 42-45, supervising chem. engineer, research div, 45-46, eng. & construction div, 46-47, MANAGER, OIL CITY PLANT, 47-Chem. Soc; Inst. Chem. Eng. Absorption and distillation.

Chem. Soc; Inst. Chem. Sng. Absorption and distillation.

SARD, PROF. ARTHUR, 146-19 Beech Ave, Flushing, N. Y. MATHE-MATICS. New York, N. Y. July 28, 09; m. 33. B.S, Harvard, 31, M.A., 32, Ph.D. (math), 36; Am. Field Service fellow, Sorbonne, 32-33. Instr. and tutor math, Harvard, 33-36; mem. actuarial dept, Prudential Ins. Co, N. J. 36-37; instr. MATH, QUEENS (N. Y), 37-41, asst. pruf, 41-48, ASSOC. PROF, 48-, Office Naval Research contract, 47-49, Mem. research staff, applied math. group, div. war research, Columbia, 43-45, director, 45. Math. Soc; Physical Soc; Math. Asn; Inst. Math. Statist. Theory of approximation; critical values.

Varies.

SARD, DR. R(OBERT) D(ANIEL), Washington University, St. Louis 5, Mo. PHYSICS. New York, N. Y. Aug. 23, 15; m. 42; c. 2. B.3, Harvard, 35, Sheldon Prize fellow, 35-36, Bayard Cutting fellow, 39-40, M.A. 40, Ph.D. (physics), 42. Research asst. Kamerlingh Onnes Lab, Leiden, Netherlands, 36-38; instr. physics, Harvard, 38-42, research assoc, radio research lab, 42-45; Mass. Inst. Tech, 45-46; asst. prof. PHYSICS, WASHINGTON (ST. LOUIS), 46-48, ASSOC, PROF. 48- Civilian with U.S.N.; Office Sci. Research & Develop. Physical Soc. Cosmic rays; low temperature physics; noise theory; radar jamming theory.

SARDESON, DR. F(REDERICK) W(ILLIAM), 3942 Marine View Drive, Scattle 66, Wash. GEOLOGY. Owego Mills, Wis, Feb. 22, 66. B.L. Minnesota, 91, M.S, 92; Ph.D. Freiburg, 95. Instr. pulcont, Minnesota, 92-94, 99-05, asst. prof, 05-14; expert geologist, State Securities Cmn, Minn, 17-34; CONSULTING GEOLOGIST, U. S. Geol. Surv, 89, 91, geologist, 11-24. Int. Geol. Cong, Zurich, 94. A.A. Geol. Soc. Geology; paleontologic evidence and the theory of evolution.

evolution.

SARETT, DR. HERBERT P(AUL), Tulane University School of Medicine, New Orleans 13. La. BIOCHEMISTRY. Brooklyn, N. Y, Feb. 5, 18. B.A. Brooklyn Col, 36; M.S. Cornell, 37; Ph.D. (blochem), Duke, 42. Instr. BIOCHEM, sch. med, Duke, 42-43; research assoc, med. div. Chem. Warfare Service, Md, 45; ASST. PROF. SCH. MED, TULANE, 46-Civilian with Office Sci. Research & Develop. A. A; Chem. Soc; Soc. Biol. Chem; Inst. Nutrition; Soc. Exp. Biol; New Orleans Acad. Metabolism of nicotinic acid; chemical and microbiological assays for B vitamins; bacterial growth requirements; relation of protein and B vitamin metabolism; bacterial utilization of vitamins and effects of inhibitors.

SARGEANT MELVIN 1(OHN) Naval Ordnance Test Station, BOQ.

terial utilization of vitamins and effects of inhibitors.

SARGEANT, MELVIN J(OHN), Naval Ordnance Test Station, BOQ
21 C, China Lake, Calif. ELECTRICAL ENGINERRING. Northfield,
Minn, June 13, 18. B.A. St. Olaf Col. 42. Physicist, U. S. Navy,
La, 42-44; Ala, 44-45; experimental physicist, exterior ballistics.

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ballistics of spinning projectiles; exterior ballistics of fining
rockets fired from aircraft; mechanics and serodynamics involved
in aircraft angle of attack studies. *

SARGENT, DR. D(ONALD) E(DWARD), Hillside Ave, Easton, PALORGANIC CHEMISTRY. Alton, Ill, June 16, 18; m. 42; c. 2. B.A. Iowa, 38; Ph.D. (org. chem), Yale, 41. RESEARCH CHEMIST, 43; at a. E. I. du Pont de Nemours & Co, Wilmington, 41-42; CRILLING STARCH LAB, GEN. ANILINE & FILM CORP, PA, 43. Chings Co. Polymerization; high pressure reactions; photochemistry, color photography; organic synthesis; dyestuffs.

SARGENT, PROF. ELMER LAWRENCE, Long Island University Brooklyn 1, N. Y. CHEMISTRY. Keokuk, Iowa, Dec. 16, 98; mg. 27; c. 7. B.S., Colo. Col., 17; M.S., Rutgers, 22; M.A. Columbia, 38; Instr., West. Colo. State Col., 17-18; CHEM. Rutgers, 21-27; EMPLOY, LONG ISLAND, 27-29, assoc, prof., 29-44, PROF. AND HEAD DEPT., 44- Organic medicinals; analytical and organic chemistry.

SARGENT, PROF. FLORENCE C(ELIA) (MRS. SYDNEY P. SARGENT) Simmons College, Boston, Mass. ORGANIC CHEMISTRY & HO

Same listing in 55 et :

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When Dr. Robert Sarbacher was in the second grade, the teacher asked his mother to take him out of school for a year, because the other children simply couldn't keep up with him.

Look Out-Here Comes a Genius!

By SIDNEY SHALETT

Introducing the man of the future—Dr. Robert Sarbacher, who earned \$35,000 a year before he was old enough to vote, and now invents devices more fantastic than Jules Verne's.

NE evening recently at the Army and Navy Country Club outside of Washington, D. C., a young man on the dance floor drew the attention of a three-star general who was seeking release from the onerous worries that beset the high brass. Sharply dressed in a light-colored suit and hand-painted tie of unbashful hues, the young man was executing an expert rumba with a congressman's wife. His face, smooth and untroubled, reflected not a single care. A little envious, the general asked if anyone knew the gay young man. A junior officer identified the dancer as Dr. Robert I. Sarbacher, an eminent electronic scientist and nuclear physicist, whose laboratory was handling an intricate research contract for the general's own branch of the Army. "Him a scientist!" exclaimed the general. "Never!" Later in the evening the general and Doctor Sarbacher

Later in the evening the general and Doctor Sarbacher were introduced. The general, in his lest three-star manner, began shooting questions designed to expose what he thought was an Einsteinian impostor. Sarbacher, who, as a matter of fact, studied under Einstein, soon had the general submerged in a discussion of thermionic vacuum tuhes, electron optics, harmonic voltage and the like. Though he refrained from identifying himself as the author, he also was able to buttress his theories by statements of principle extracted from the Sarbacher-Edson textbook, Hyper and Ultra-High Frequency Engineering, which is a classic for graduate students in electrical engineering and physics.

There was nothing unusual about the general's experience. Robert Irving Sarbacher, Sc.B., Sc.M. and Sc.D., now forty-two years old and founder, president and director of research of the National Scientific Laboratories, of Washington, D. C., has been astounding people for a long time. The first known instance occurred when he was in the second grade. His teacher called on his mother to ask her if she would take Robert out of school for a year. His mother asked what he'd been doing wrong. "It isn't anything wrong," the teacher said. "It's just that I'm afraid he's a genius. The other children can't keep up with him."

Despite the teacher's plea, Mrs. Sarbacher kept her son in school. The teacher became so interested in Robert that she arranged a transfer for herself, so she could follow him into the third grade.

follow him into the third grade.

At the age of ten, Sarbacher was astounding the neighborhood children by experiments performed with a chemistry set his father had bought him for Christmas.

At twelve, he was making radio sets, had built his own transmitter and was a licensed "ham" operator. At eighteen, he was graduated from Baltimore Polytechnic Institute, and before he was twenty-one he was earning \$35,000 a year.

At twenty-four, Sarbacher decided to go back to school. In the course of the structured on Page 1955

in Germany is to encourage the West German government to become more representative, and to improve its relations with Western countries. About 45,000,000 Germans are now living under this government, as compared with only 17,000,000 in the Soviet-sponsored East German state. Here in Western Germany, if anywhere, is the real Germany today, and what happens here should determine the future of all Germans.

In fact, Mr. McCloy believes that what happens to these Western Germans during the next five years is likely to determine the future of the whole European continent. This great community, more populous than France or Britain, has seen its old order collapse. One fifth of its inhabitants are newcomers driven out of ancient homes in the East. Another one fifth lost their homes and possessions in a war which Germans started. Living conditions in Western Germany are so chaotic that anything might happen if they were left to them-

But they have not been left to themselves; the American people have undertaken to subsidize an experiment here in which the British and French governments have been accepted as partners. Since this experiment is being conducted under the abnormal conditions of a foreign occupation, it cannot be expected always to run smoothly. The French, for example, are certain to fight hard for their own national interests, as they have done recently in fortifying their hold upon the disputed coal-mining frontier region of the Saar.

ing frontier region of the Saar.

But Mr. McCloy never forgets that
Western Germans also have been accepted as partners in this experiment.
He is not surprised or disappointed
when German politicians also fight for
their national interests. The American
policy under which the High Commissioner agreed to come to Germany was
designed to restore self-government to
the Germans as rapidly as possible. If
and when that accepted American
policy should be repudiated, Mr.
McCloy would feel that his usefulness
in Germany had ended.

LOOK OUT—HERE COMES A GENIUS!

(Continued from Page 34)

next eleven years, he studied at the University of Florida. Princeton and Harvard, and he taught at Harvard, Radelife and the Illinois Institute of Technology. At the same time, he conducted a private consulting business that netted him ar, where from \$10,000 to \$20,000 a year. During the war he was a Navy consultant in electronics research and development, and then he went to Georgia Tech in Atlanta to become, at thirty-eight, dean of the graduate school. Today he has carried out an ambition he has long had to head his way reasons.

head his own research organization.

Doctor Sarbacher is the despair of persons who fancy they can guess a man's profession by his appearance and surface manner. Although he has been losing his hair since he was eighteen losing complement of scalp covering, Sarbacher is a long-haired scientist in the longest-haired of scientific fields. The contrast between Surbacher as he appears on the dance floor and Sarbacher in the laboratory is heightened by the fact that, whereas the average long-haired scientist is content to work for some big corporation, for the Government or in a college laboratory, this unaverage cross between Beau Brummell and Albert Einstein represents, in his field, a triumph of personal private enterprise.

Sarbacher's capacity for enjoying himself is outstripped by an even greater capacity for hard work and intense concentration. When at grips with some problem such as how to split time down to a billionth of a second or how to develop a pocket-sized radar whose beams will penetrate obstacles without bending. Sarbacher has been known to forget the outside world completely. During such spells he has worked forty-eight hours and longer without sleep and with very little food. He uses not only his brains but his hands, and he will grab up a soldering iron or a piece of metal plate, oblivious of whether a drop or so of molten lead or of acid drips on the \$150 tailor-made suits he wears. He also has the capacity to inspire his associates to work long and arduous hours with him.

Though Sarbacher refers to himself as a scientific black sheep who has let commercial considerations affect his operations, he is at heart a pure scientist. He is not an inventor or gadgeteer, though he could be if he wanted to. Patents, as such, mean little to him, and it is highly unlikely that he ever will bother to devise, say, a little radar-controlled egg beater that will make his name a household word and attract a few hundred thousand dollars into the till. He is happiest when attacking something truly abstruse, even if there is small change of wither with registers.

is small chance of quick profit.

Sarbacher is convinced that scientific virtue is its own reward and that such things pay off. His bank account and the solvent state of National Scientific Laboratories seem to substantiate this theory. His professional standing is similarly solvent. Sarbacher's former mentor and colleague, Prof. E. L. Chaffee, the head of Harvard's Engineering Sciences and Applied Physics Department, says of Sarbacher's work at Cambridge, "I was always amazed at the amount of work which he could turn out in a given time. I don't think I have ever known a man who had so much interest in the work, and at the same time was so untiring

in his efforts to accomplish results."
Pres. Blake R. Van Leer, of Georgia
Tech, says simply, "Sarbacher is a
genius... and a genius with an unlimited capacity for hard work."

Sarbacher was born in Baltimore, the youngest in a family of three boys and a girl. His father, a conservative of the old-fashioned school, had a book-binding-and-publishing firm. The family lived well but unostentatiously in a house run without a full-time servant. Robert used to go without lunch and walk to school to save money for buy-ing radio parts.

ing radio parts.

Even before the second-grade episode, Robert's unusual brightness manifested itself in demonstrations of phénomenal memory. The Sarbachers were Christian Scientists, and Robert, before he began going to grade school, showed an outstanding knack for memorizing Bible verses and hymns. Much later in life, according to scientific associates, Sarbacher casually memorized pages of electrochemical tables and the complex periodic table of atomic elements, so be wouldn't have to be bothered looking them up in reference books.

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economics seemed to him such an inexact science, he decided to strike out on his own. He set off for New York. City with a capital of twenty-three dollars. His family did not approve of his going to the hig city, an next to the primary husiness of keeping from starying, Robert's main concern was to prevent news of his desperate straits from filtering back to Baltimore.

His first act after arriving in Non

York was to buy a newspaper and con-sult the grooms for rent and belo-wanted columns. He found a sevendollar-a-week room near 72nd and Broadway, then started making the rounds of the employment agencies. No one wanted him. He was down to fifty cents when he finally got a jub as a draftsman for a public utility. His a dratteman for a public dullers a week, salary was forty-five dollars a week, payable every two weeks, but, for some bookkeeping reason, the initial wages were withheld, so that it was four weeks before Sarbacher received his first ninety dollars, "That," he says, "was when I acquired a hockshop set of values. I lived by pawning my belongings and I learned the value of good and durable clothing."

To save carfare, he would walk from

72nd Street to his office, which was at 41st and First Avenue. The last thing he had left to hock was his leather suit case. That brought seventy-five cents and got him through to him first pay-

As his financial status improved, Sarhacher reclaimed his pon huilt up a hank account. In his zeal to do a good job and also to keep from doing things that cost money, he worked overtime at the office until the warked overtime in the building and insat that he leave. This was the beginning of a leason that hard work pays off; Sarlacher's salary rose to seventy-five dollars a week within six

However, he decided to give up the seventy-five-dollar-a-week job for a sixty-dollar one with Electrical Research Products, Inc., then a Western Electric affiliate, because he fell would advance his prospects of graduating from draftsman to engineer. In about six more months, ERPI did make him an engineer. Sarbather helped produce a new motion-picture projector and accessories, and then was assigned the task of designing trunks in which to package them.

In due course, the purchasing agent obtained a number of outside bidsilor Sarbacher felt that they all were out term. "As a matter of fact," Sarbacher fageously high." They offended my recalls, "nothing much bappened to sense of hock-shop, values," he says a the car except that one night a wheel The purchasing agent told Sarbacher he could have the contract if he could huild them for less.

went over to Third Aver where there were a number of small trunkmakers, and lined them all in. Surbacher reintes. I told them if they'd co-operate with me we could ville the following week end and he lves a lot of money. In ten days we had produced better trubks. Next on Sarbacher's educational pro-which we could sell at less than half gram—though again with the idea of the amount of the lowest hid obtained, choosing the teacher rather than the to clear nearly thirty-five thousand dollars a year for myself.

when Sarbacher was seventeen his ... With his new prosperity, Sarbacher, father ran into financial reverses, and how twenty-one, began living better. Robert graduated from Baltimore, Some old school friends whose fathers Polytechnic on a slim bidget After a were well-to-do looked him up. They desultery stab at a voolege husiness were fascinated with him because, uncourse, which he found boring because like themselves, he had a label of the same seconomics seemed to him such as the same s like themselves, he had a job in a com-pany not owned by his father. Soon Sarhacher, with the mildew and cooking odors of his seven-dollar-a-week furnished room hardly out of his clothes, found himself living in a fancy hotel and ruthing around in the evehotel and rurning around in the eve-nings on Park Avenue. All that he re-calls vividly from this period are the twelve-cylinder, yellow convertible roadster he acquired, and the fact that at a hridge game he lent Babs Hutton, the Woolworth heiress, thirteen dollars to pay off her losses. He doesn't remem-

er whether he ever got it back. Sarhacher had no intention of pursuing this butterfly existence for long. The easy money of the trunk busine interested him only as a means of grubstaking himself to an engineering education. He knew that science was going to be his chosen field and he realized he would get nowhere in it without higher training. Schools with fancy names meant nothing to him; his method was to survey the field of teaching talent and decide under whom he wanted to study. His first choice was the University of Florida, where two men whose work he admired, Dr. Blake Van Leer and Prof. Joseph Weil, were, respectively, dean of engineering and head of the electrical-engineering department. A more mundane factor in lorida's favor was that Sarbacher's oldest brother was living in the state and Robert could establish legal resi-

dence with him, thus saving on tuition. Only one thing went wrong with Sarbacher's plans. Another brother had come to live with him in New York City and had persuaded him to invest all his savings in a real-estate venture. This was just at the time of the 1929-30 crash. When Surbacher picked up the pieces, he found that after selling most his furniture and changing the twelve-cylinder convertible for a secondhand small car, he could pay for his first semester's tuition and have fifty

dollars to spare. hacher abon became a legend, both as a scholar and as a personality. A certain number of credits were allowed him for the work he had done at Baltimore Polytechnic Institute. By taking summer courses and carrying a staggering load, he was able to graduate in two years with 144 credits.

He solved his money problem by enting his secondhand car to his Kappa Sigma Fraternity brothers. He was a good mechanic and could keep it in perfect running order despite was stolen while a fraternity brother had it on a week-end date in Jacksonville. He sort of horrowed a wheel from another car he found parked on a dark street, but it was a larger car and the wheel didn't fit very well. However, 1 let him take the car back to Jacksoncame home with the right-sized wheel,

hy the purchasing agent. ERPI was institution—was a year of graduate happy, the Third Avenue manufac awark at Princeton, where he also atturers made a nice sprofit and thy tended seminars at the Institute for Admerely giving an hour of two to the varied Study. Here he worked under project after working hours, I was able many great professors in the fields of tools as nearly thirty fine the worked under project after working hours, I was able many great professors in the fields of tools as nearly thirty fine the many great professors in the fields of tools as nearly thirty fine the many great professors in the fields of mathematics and physics, including Albert Einstein. Sarbacher used to



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walk with Einstein from the latter's home to Pine Holl, where demonstrated to the able to learn from him, "Eurhodian maya. When I left, Princeton, matthe-

matical physics rever coin to deprete to me."

By the time he entered Harvard in 1935 for graduate work in physics and communication engineering, Sarbochez was married. As a married student, he will permitted to rent quarters in a Harvard development known as Holden Green. "Old President Lowell had felt that married students should begin learning come of the responsibilities of life." Surbacher explains, "co he had equipped each apartment with its own furnace and coalbin. From an engineuring standpoint, the furnoces had atrocious drafts, and the fire was always going out during the night." The real going out during the night. The real trouble with the furnace, according to a classmate of this period, was that Sarbacher used to study until three o'clock in the amorning and forget to stoke it. I stoke it. ≟Î

Sarbucher's record at Harvard was remarkable - three A's and one B the first year, and all A's thereafter. He stayed on at Harvard until 1940, earning both his master's and doctor's degrees in science and serving as an in-structor and as an assistant in research to the renowned Doctor Chaffee.

Surbacher's natural talent for making large sums of money while pursuing his scientific interests began to assert itself at Harvard. As Chaffee's assistant, his services as a consultant were greatly in demand, and his fee was \$100 a day. The first time he was paid for eighteen days of research, he gravely announced to his associated gravely announced to his associated that a pure scientist just mustr't he-come accustomed to having co-much money around, so he blew in the \$18(8) as down payment on a convertible roudster even more glittering than the one he had ahandoned in New York. A \$2000 fee came along soon ofter, and that went into a mink coat for his wife. Then he began saving his money

Sarbacher went from Harvard to the Illinois Institute of Technology, in Chicago, where he taught electronics. Harvard horrowed him during the summer of 1941 to help build up a wartaning church for Appublication. training course for Army Signal Corps officers. Doctor Chaffes tried to persuade him to remain at Harvard, but Surbacher, returned to Illinois in No-vember. While at Harvard as a ctu-

omell and highly calcut (roup of area who later become the brain of the The later become the broine of the Novy's electronics department. When the United States one descriptions the later of the Control of the Con torcultant on rador, loran - lorg-range electronic navigation - blind-landing oyulams and other electronic devices.

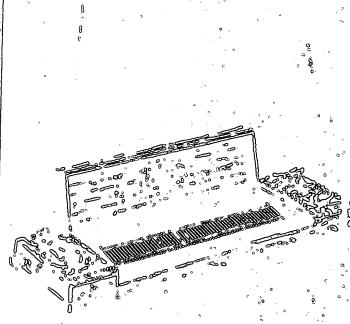
oyclems and other electronic devices. His friends permanded him to remain a civilian consultant, instead of going into uniform, so he could talk beek when necessary to the rare but at that time atiliant viving type of admiral time atiliant viving type of admiral who was not convinced that rokes sould over replace the dynal flor. This introduced to be a good field, at these worse near times when he had to step an cause important time, which he on come important toss, which he couldn't have done on a subordinate

Toward the end of the war, Sarboches one given a thirty-day know of obsence to help a manufacturing company out of a bals. The firm had a con-tract, involving approximately \$10.-600,000, to manufacture a desperately, seeded piece of equipment known ca.a. "apot-jammer" for the Air Force. The Germans had developed a high-altitude fighter. that was houseing confighter that was hovering over our bombers, well allove gun range, and broadcasting flight information to the Wehrmacht antiaircraft batteries. The upot-jammer was readed to obliterate its signals. About a year after the contract was let, according to Sarbacher, the manufacturer otill had not developed even a model for the instrument. Sarbacher threw how urgent the fighter that was hovering over our

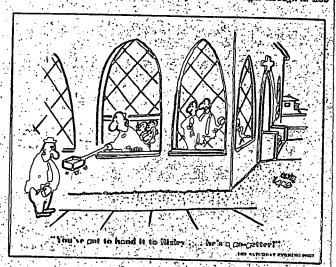
Sarbacher knew how urgent the problem was; he had been told the sacret figures on Air Force's losses due to lock of this piece of equipment. He was determined to produce the model. was determined to produce the moural in less than thirty days and, toward that end, he attacked the problem by means of what might be called a catu-ration method. This is a cyntem he still employo when a deadline is preming or inspiration is flowing. It means citting down and working until sheer exhaustion stops him, then reating a few hours and resuming the search for the answer. This instance was Sarbachar's all-time high for concentrated work.

"An accordance work."

"An accordance who watched him at it tells the ctory. "He cat in a workroom with paper, pencils, alide rule, a coldering iron and other tools. Sometimes he had other engineers with him, but often vember. While at Harvard as a ctu-dent and instructor, Sarbacher had studied with or taught many of the ctayed with him right through it. Bob



gooroo goo alloo assoolbogost act agao apagolog



worked for ten days, and in that ten days he had only about twenty hours' gest customers.

"At the end of ten days he had pro duced a model that worked. He had conceived it, designed it and largely built it with his own hands. He had done what the other engineers had not

heen able to do in a year."
Surbacher went back to the Navy. making a mental note, which he has carried out, that when he started his own laboratory, Urey Allen was going to be the first man he hired. But in a week or so the spot-jammer manufacturer was calling again. He had the model, but now he was in production difficulties. Would the Navy let him have Sarbacher back to supervise production? Sarbacher went back to the company and remained for seven

His postwar acceptance of the deanship of Georgia Tech's graduate school was, as he puts it, "a rounding out of my academic experience." Among his corollary duties, he represented the school on the governing board of the Institute of Nuclear Studies at Oak Ridge, Tennessee. President Van Leer anys that the Georgia Tech graduate school still is benefiting from ideas inparted by Sarbacher during his three years there.

But Sarbacher was eager by this time to get on with his long-nurtured plan to set up his own laboratories, and he was impatient with the administrative duties, the conferences and the teaaspects of his graduate-school ob. Offers of fat consulting contracts began coming his way, and it was frus-trating to Sarbacher when he found trating to Sarbacher when he found time to accept only a few of them. The contracts he did accept involved complex electronic problems that genuinely interested him, When a request for scientific help on some purely gadgeteering problem came in, Sarbacher would either dismiss it or would give a curbatone opinion without charging n fee.

For instance, at a party one evening he met an official of a large soft-drink corporation. The official remarked that his laboratory men had been trying unhis latoratory men had been trying un-successfully for a year to develop a practical method of bottling a straw along with the beverage, so that, when the bottle cap was lifted, the straw would pop up, ready for the con-aumer's lips. Would Sarbacher like to take on the contract? Instead, Sarbacher gave a minute's thought to the problem and suggested that the laboratory men try tipping the straw with a certain tasteless, harmless, magnetic plastic element, which be named. When an electromagnet is used underneath the bottle during the capping process, the combination does the trick.
The company hasn't marketed the pop-up straw yet, but the official was delighted with the free information. Sarbacher's philosophy, which he insists has paid off many times, is that if he is generous with easy ideas and does not try to squeeze every dollar out of a situation, companies will remember him when they have truly difficult research problems.

Sarbacher's decision to establish his laboratories in Washington was based on three factors: first, the nearness to the National Bureau of Standards, which offers unequaled facilities for testing the accuracy of the delicately halanced instruments that are used in electronic research; second, the availability of the incomparable scientific files of the Library of Congress for research purposes, and, third, the handiness to headquarters of the Army,

customers.

Sarbacher's organization is one of he few privately controlled organizations in the country equipped to carry out electronic research on the scale it undertakes. The corporation is capitalized at \$250,000 and Sarbacher holds more than 80 per cent of the common

As a home for National Scientific aboratories, Sarbacher leased a spacious old brownstone-and-brick mansion on Massachusetts Avenue, not far from the beginning of Embassy Row. Laboratories, drafting rooms, chemistry and glass-blowing sanctums, and metal- and wood-working shops have been set up in former bedrooms, sitting rooms and pantries. Most spectacular is a chamber with an inner room, constructed at a cost of \$15,000 and consisting of two layers of copper and two

chine. According to Sarbacher, the machine will take bills of all de tions, count them by denominations, divide them by Federal Reserve Districts and perform all the other sorting operations which banks require. For good measure, it will determine electronically what hills are so worn that they should be retired, and will set m aside after counting them. It even will detect certain types of counterfeit bills. This is one device that Sarbacher and his associates will release only under a royalties arrangement.

Most of the military projects carry security classification and cannot be discussed. These projects often involve the design and construction of instruments which have important civilian applications. One device may be described as a superaccurate, pocket-sized radar whose beams have extraordinary properties when they encounter moun-

the fact that there were at least fifty feasible avenues by which the solution might be reached. With time breathing scripdown their necks, Sarhacher and his engineers boldly and arbitrarily eliminated all but two or three of the approaches, thus taking a short cut to the solution. Even so, extensive tests were needed

to determine which approach was best. Since testing it would interfere with the city's normal television channels, the experiments had to be conducted on a lonely highway outside Washington at two o'clock in the morning. Sarbacher often wonders what would have happened if a group of suspicious policemen or deputy sheriffs had come across his men working on the highway with a mysterious black box. Now, to proa place where such experiments may be conducted in privacy, he has set up a subsidiary laboratory at a small airfield near Washington.

Sarbacher's greatest impatience to-day is directed at the school of thought day is directed at the school of thought which holds that, in view of the destructive potential of atomic energy, science has gone too far.

"Rubhish!" he says. "They could

have said the same thing when man discovered fire. In the beginning, fire, too, was a great menace and a great destroyer before we learned how to harness and control it, The splitting of the atom eventually will produce great good for man."

He thinks a great deal about the world of mass and energy in which we live. This, he says, is "a world in which invisible particles of electric energy, constantly streaking through space at speeds of over a hundred thousand miles per second, are creating, within their atomic orbits, everything we touch and see, including man." He speculates on the further unmasking of the hidden secrets of nature and on the harnessing of the atomic nucleus.

This is the field to which I would This is the neid to which I would like to make some contribution." Sarbacher says. "Gadgeteering is all right in its way. We could make you a house that would be heated by radar beams though you'd have to substitute plastics for all metals, including the fillings in your teeth, as the metal would get awfully hot. We could fix up windows that would open and shut for you when you addressed them by name. We could make you a hed with an electronic mattress that would both keep you

warm and massage you as you slept. "But I'm not particularly interested in these things. The back-caressing mattress, the straw that pope up when you open the soft-drink bottle, hold you open the Bott-urink bottle, hold little fascination for me. I happen to think that we are on the threshold of a whole new world in which we shall gain a revolutionary concept about the atructure of matter and a means of applying this concept. I think that scientific research is the answer to every material problem now facing us. I think that the new knowledge we are certain to gain is capable of curing our economic illa. It is capable of producing our food for us by synthesis, thus conquering famine; it will elim-inate, in time, the diseases before which mankind now seems so help-

ess.
"So, when anyone complains that science has gone too far and that, if we're not careful, we'll all push-button ourselves out of johs, I repeat, rubbish. Neither the United States nor any other progressive country is going to remain a nation of candlemakers or buggy-whip manufacturers. There is no limit to the expanding frontiers of ecience. THE END



of steel. It is a "screen room" in which tains, clouds or fog. It employs princihypersensitive electronic instruments can be tested without interference from

any stray rays. Sarbacher, now divorced, gave up his own apartment so he could live in the laboratory while it was being organized. When a project is under way he will work until three or four o'clock in the morning, and then fall into bed in his third-floor room. His staff has a tacit conspiracy to let him sleep late. Howusually up early, breakfasting on milk and packaged cereals, which he keeps in a refrigerator along with certain perishable chemicals, and is ready for the morning's work.

Sarbacher's laboratories took on a considerable number of contracts imconsiderable number of contracts immediately after organizing. Deadlines on some of the projects were so pressing that there was not time enough to paint and plaster the walls in several of the workrooms. Projects now are being carried out for the armed services, the Civil Aeronautics Administration and private industrial concerns.

In the last-named field, the labora tory is undertaking the development of a weird electronic currency-sorting maples that Sarbacher says will be useful to color television.

One of the imagination-staggering problems the laboratory had to solve in developing a special instrument was the question of "making time stand almost still." Sarbacher and his engineers are seeking to perform a certain opera-tion—and measure it—in a time interval of ten-billionths of a second. At this rate, the electromagnetic waves with rate, the electromagnetic waves with which they are working, traveling at the speed of light, move only approxi-mately ten feet. "I think it safe to say," Sarbacher declares, "that we almately ten feet. "I thin sav." Sarbacher declares. ready have worked with time intervals in which very few, if any, practical ex-periments previously had been con-ducted. We now are trying to move up to the one-ten-billionth-of-a-second in-

When Sarbacher took on a certain Army contract, the specifications seemed feasible, though another company had been stalled for a year on the project. Then further changes in requirements made the problem more difficult. There was a necessity for completing it in an extremely short period of time, despite

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INTERNATIONAL AUTHORITY

ROBERT I. SARBACHER held his first important position as assistant to the renowned Dr. Chaffee, Head of Harvard's Engineering and Applied Physics Department. Prior to his academic work at Harvard, Dr. Sarbacher's educational training was secured at Princeton and at the Institute for Advanced Study at Princeton where he studied under Dr. Einstein.

He taught at Harvard, the Illinois Institute of Technology, and Radcliffe, and became Dean of the Graduate School of the Georgia Institute of Technology, where he also served as Chairman of the Graduate Council.

In the industrial world he served as Director of Research for the National Scientific Laboratories, Washington, D. C.: Prosperity Co., Inc., Syracuse. N. Y.; Allies Products Corporation, Miami. Florida: Bowser, Inc., Chicago; Gudeman Co., Chicago; Jos. Weidenhoff, Inc., Algona, Iowa; Electrofile Corp., New York; Briggs-Filtration Co., Washington, D. C.: also as Vice-President of Maguire Industries, Inc., New York, and President, Allies Products Corporation.

He was Institutional Representative at the Oak Ridge Institute for Nuclear Studies, and Member of the Advisory Council, War Assets Administration.

He also serves as Professional Lecturer, George Washington University, and as a member of the Nuclear Energy Committee of the National Manufacturers Association.

He has written many books and scientific articles. His consulting firm, Robert I. Sarbacher & Associates, is located in Washington, D. C., for ready access to the National Bureau of Standards, the exhaustive files of the Library of Congress, and the Headquarters of the Armed Forces.

Dr. Sarbacher's ENCYCLOPEDIC DICTIONARY OF ELECTRONICS AND NUCLEAR ENGINEERING, into which he has poured more than \$90,000 of his own funds (aside from his own time) for research and manuscript preparation, constitutes a crowning achievement and fundamental contribution to the scientific world.

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