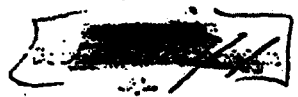


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... ..

- ... .., Ohio (2 August 1952); ... .., Utah (2 July 1952);
- ... .., Montana (16 August 1950); ... .., Montana (1 September 1952);
- ... .., Washington, D. C. area (19 July 1952); and ... .., ... ..
- ... .., Japan (5 August 1952); ... .., Michigan (29 July 1952); and
- ... .., Idaho (23 October 1952).

After review and discussion of these cases (and about 15 others, in more detail), the Panel concluded that reasonable explanations could be suggested for most sightings and that additional information could be included (given additional data) that other cases might be explained in a similar manner. The Panel pointed out that because of the brevity of most sightings (e.g. 2-3 seconds) and the brevity of the witness reports, explanations themselves clearly (sometimes) the comprehensive explanation would not be expected for every case reported. Furthermore, it was considered that, normally, it would be a great waste of effort to try to solve most of the sightings, unless such action would result in a training and educational program (see ...). The writings of Charles Fort were referenced to show



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that "strange things in the sky" had been reported for hundreds of years. It appeared obvious that there was no single explanation for a majority of the things seen. The presence of radar and astronomical specialists on the Panel proved of value at once in their confident recognition of phenomena related to their fields. It was apparent that specialists in such additional fields as psychology, aerology, aerodynamics, ornithology and military air operations would augment the ability of the Panel to recognize many rare categories of little-known phenomena.

#### GENERAL CONCLUSIONS

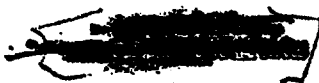
The Panel concluded unanimously that there was no evidence of a direct threat to national security in the objects sighted. Instances of "Foo Fighters" were cited. These were unexplained phenomena sighted by aircraft pilots during World War II in both European and Far East theaters of operation wherein "balls of light" would fly near or with the aircraft and maneuver rapidly. They were believed to be electrostatic (similar to St. Elmo's fire) or electromagnetic phenomena or possibly light reflections from ice crystals in the air, but their exact cause or nature was never defined. Both Robertson and Alvarez had been concerned in the investigation of these phenomena, but David T. Griggs (Professor of Geophysics at the University of California at Los Angeles) is believed to have been the most knowledgeable person on this subject. If the term "flying saucers" had been popular in 1943 - 1945, these objects would

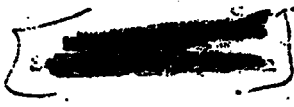


... as indicated. It was interesting that in at least two cases... that the object sighted was categorized by Robertson and... as probably "See Fighters", to date unexplained but... they were not happy thus to discuss the sightings by calling them names. It was their feeling that these phenomena are not beyond the domain of present knowledge of physical sciences; however.

THE PUBLIC INFORMATION SERVICE

It was the Panel's opinion that some of the Air Force... U.S. (notwithstanding Air Defense Command anxiety over... tracks) was probably caused by public pressure. The result... that the Air Force has instituted a fine channel for... reports of seeing anything anyone sees in the sky and... to understand. This has been particularly encouraged in popular articles on this and other subjects, such as space travel and science fiction. The result is the mass receipt of low-grade reports which tend to overload channels of communication with material quite irrelevant to hostile objects that might some day appear. The Panel agreed generally that this mass of poor-quality reports containing little, if any, scientific data was of no value. Quite the opposite, it was possibly dangerous in having a military service foster public concern in "nocturnal wandering lights". The implication being, since the interested agency was military, that these objects were thought to potential direct threats to national security. Accordingly, the need for demystification made itself apparent. Comments on a possible educational program are enumerated below.

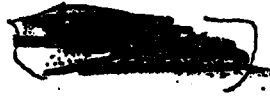


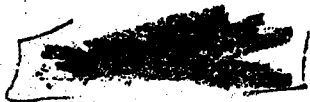


It was the opinion of Mr. Robertson that the "sonar" problem is a very different in nature from the detection and identification of German V-1 and V-2 guided missiles prior to their operations, was in World War II. In their 1943-1944 intelligence operations (SICREDO), there was excellent intelligence and by June 1944 there was material evidence of the existence of "Parsons" obtained from cracked rotors in Sweden. This evidence gave the investigating team a basis upon which to operate. The chances of any "Parsons" resulting from unexplained U.F.O. sightings being a "will-o-the-wisp" nature to the MIB problem. The results of their investigation, to date, strongly indicate that no evidence of hostile action danger exists. Furthermore, the current reporting system would have little value in the case of detection of enemy attack by conventional aircraft or guided missiles; under such conditions "Parsons" would be available almost at once.

STATE OF FORENSIC EVIDENCE

It was interesting to note that none of the members of the Board were loath to accept that this earth might be visited by extraterrestrial intelligent beings of some sort, some say. What they did not find was any evidence that related the objects sighted to space phenomena. Mr. Townsend, in his presentation, showed how he had eliminated each of the known and probable causes of sightings leaving him "Parsons" as the only one remaining in many cases. Townsend's background as an astronomical engineer and technical intelligence

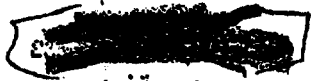





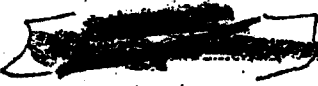
...Project ... (could not be ...)  
 However, the Panel could not accept any of the cases ...  
 because they were eye, unavaluated reports.  
 Astronomical explanations of the sightings were suggested in some ...  
 and in others the time of sighting was so short as to cause ...  
 of visual impressions. It was noted by Dr. ... and ...  
 that extraterrestrial artifacts, if they did exist, are no ...  
 rather, they are in the realm of natural phenomena ...  
 subject to scientific study, just as comic rays were at the time ...  
 of their discovery 20 to 30 years ago. This was an attitude in ...  
 which Dr. ... did not concur, as he felt that such artifacts ...  
 would be of ... a great concern not only to the U. S. but ...  
 to all countries. (Nothing like a common threat to quite peoples)  
 Dr. ... noted that present astronomical knowledge of the solar ...  
 system makes the existence of intelligent beings (as we know the ...  
 ) elsewhere than on the earth extremely unlikely, and the ...  
 concentration of their attention by any controllable means confined ...  
 to any one continent of the earth quite preposterous.

... ..

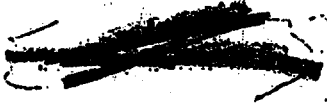
This case was considered significant because of the excellent ...  
 documentary evidence in the form of ... motion picture films ...  
 (about 3000 frames). The Panel studied these films, the case history, ...  
 interpretations, and received a briefing by representatives of ...  
 the ... Interpretation Laboratory on their analysis of the ...  
 films. This team had ... (at ... request) approximately





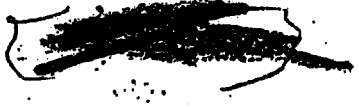
- 
1. Objects in the Great Falls case were believed to have probably been aircraft, and the bright lights such reflections.
  2. There was no valid reason for the attempt to relate the objects in the formation sighting to those in the Great Falls sighting. This may have been due to misunderstanding in their objective. The objects in the Great Falls sighting are strongly suspected of being reflections of aircraft known to have been in the area.
  3. The intensity change in the formation lights was too great for acceptance of the U.S. hypothesis that the apparent motion and changing intensity of the lights indicated extremely high speed in small orbital paths.
  4. Apparent lack of guidance of investigators by those familiar with U.F.O. reports and explanations.
  5. Analysis of light intensity of objects made from duplicates rather than original film. The original film was noted to have a much lighter background (affecting relative brightness of object) and the objects appeared much less bright.
  6. Limited of obscuring effect of light intensity appeared faulty because of unavailability of equipment and questionable assumptions in making averages of readings.
  7. No data had been obtained on the sensitivity of Kalmanson film to light of various intensities using the same camera type at the same lens openings.
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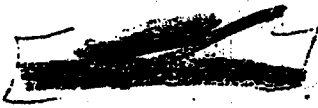




... that "proton" in question (which is the main body part of  
the silicon film) was not removed from the plates of the  
"highly pure plate" at the end of the film.

The Panel believed strongly that the data available on this  
subject are sufficient for positive identification of certain data  
as obtained by photographing silicon "plates" followed reduction  
under the same or similar weather conditions, checking with slight  
variations in conditions with competent chemists and  
conducting experiments with various other objects from their own  
series. It was concluded that the results of such tests would pro-  
vide a definite explanation of why in an occasional or  
a single program. However, the Panel notes that the cost in technical  
equipment effort required to follow up and explain every one of the  
thousand or more reports received through channels each year (1950-1951  
and 1952) would not be justified. It was felt that there will always be  
things, for which complete data is lacking, that can only be  
explained with discrepancy in the effort and with a long time delay, if  
at all. The long delay in explaining a growing trend to all kinds  
of intelligence tests, the scientific training program should  
be as a major purpose the elimination of popular feeling that every  
thing, no matter how poor the data, need be explained in detail.  
The action should be directed to the requirement every candidate that  
before presenting, to be accepted, must be completely and convincingly  
demonstrated. In other words, the burden of proof is on the applicant,  
not the government.





THE PROBLEMS

The Panel Members were in agreement with O/SI opinion that, although evidence of any threat threat from these sightings was mainly helpful, related dangers might well exist consisting from

- a. Misidentification of actual enemy activities by defense personnel.
- b. Concealing of enemy by reporting dummy with "false" information (false to signal radio analogy).
- c. Subjectivity of pilots to mass hysteria and greater vulnerability to possible enemy psychological warfare.

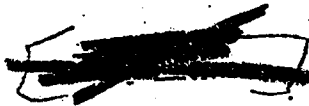
Although not the concern of O/SI, the first two of these problems may seriously affect the Air Defense Intelligence system, and should be studied by experts, possibly under AEG. If U.S.F.O.'s losses are confined in a reaction to the "flying saucer" scare, or if reporting channels are saturated with false and poorly documented reports, our capability of detecting hostile activity will be reduced.

Dr. Hugo noted that more competent screening or filtering of reported sightings at or near the source is required, and that this can best be accomplished by an operational program.

ANALYSIS OF REPORTED SIGHTINGS

The map prepared by AEG showing geographic locations of officially reported unexplained sightings (1952 only) was examined by the Panel. This map showed clusters in certain strategic areas such as Los Alamos. This might be explained on the basis of 24-hour watchful guard and



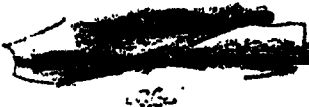


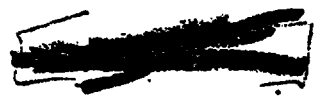
... of secondary nature near such locations. On the other hand, there had been no sightings in the vicinity of sensitive selected air concentrations while there were considerably multiple cases of unexplained sightings in non-strategic areas. Furthermore, there appeared to be no logical relationship to population centers. The Panel could find no ready explanation for these situations. It was noted, however, that all terrestrial artifacts were to be observed it would be likely that they would be seen first near foreign areas rather than central U. S.

INSTRUMENTATION CONSIDERATION

The Panel was of the opinion that the present ATU program to place 100 inexpensive 35 mm. stereo cameras in the hands of various airport control tower operators would probably produce little valuable data related to U.F.O.'s. However, it was recognized that such action would tend to allay public concern in the subject until an operational program had taken effect. It was believed that procurement of these cameras was partly the result of public pressure in July 1952. With the poor results of the year-long Project ECHO program of 24-hour instrumentation watch (two frames of film showing nothing distinguishable), a widespread program of close-watching would not be expected to yield much direct data of value.

There was considerable discussion of a possible "city patrol" by station astronomers (Hynd) and by wide-angle cameras (Page). Dr. Hynd and Dr. Robertson pointed out that at present a considerable fraction



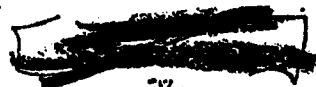


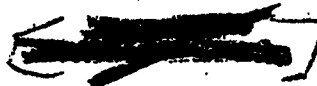
...for many years under surveillance  
 ...in several instances and exact observing programs as  
 ...of the various missions listed below.  
 ...of these activities is largely directed  
 ...rather than unidentified objects, no case of any  
 ...is known to Dr. Pogo or Dr. Lynde. Such  
 ...be reported if found on patrol plates.

...was asked where an astronomer refused to interrupt his  
 ...in order to photograph an alleged sighting in a different  
 ...of the city. This led Dr. Lynde to say that, if a program of  
 ...could be an object of planned astronomical programs, little  
 ...would be involved and that the trained astronomical personnel  
 ...photograph a sighting of an unidentified object.

The location of some of these programs and their directors are  
 followed to list:

- a. Harvard University, Cambridge and W. J. Kerwin (meteor patrol),  
 Haystack.
- b. Yerkes Observatory, University of Chicago and Fort Davis, Texas  
 (several programs)—Wainel (comets), Risper (asteroids),  
 Morgan (wide angle camera).
- c. University of Alaska, Fairbanks (comet)—Elvey
- d. Dominion Observatory, Ottawa (comets)—William
- e. Lick Observatory, California (city map)—Winkowski
- f. Lick Observatory, California (city map)—Sears

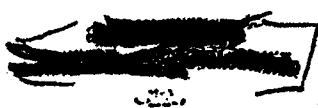




It was agreed by the Panel that no government-sponsored program of critical intelligence gathering is warranted at the present time, and that the encouragement of amateur radio amateurs to undertake such a program might have the adverse effect of over-emphasizing "flying saucer" stories in the public mind. However, the study of radar technology and the recording peculiar radar echoes would serve several purposes, including the better understanding of radar interference as well as identification of U.S.C.'s.

THE PROBLEM OF MUTUAL INTERFERENCE

This characteristic problem of radar operation wherein the pulse signal (of approximately the same frequency) from station A may be picked up on the screen of station B and show as a high-speed track or series of dots was recognized to have probably caused a number of U.S.C. reports. This problem was underlined by information received indicating IIS concern in solving this problem of signal identification before service use of very high-speed aircraft or guided missiles (1955-1956). <sup>Dr. Darwin</sup> Dr. Darwin believed that one answer to this problem was the use of a "Coyler filter" in the receiving circuit. <sup>Another</sup> [Dr. Alvarez] suggested that the problem might be better solved by the use of a "controlled jitter" wherein the operator receiving "very fast tracks" (on the order of 2000-30,000 mph.) would operate a circuit which would alter slightly his station's pulse frequency rate. If the signal received on the screen had been caused by mutual interference with another station, the track would now show dots at a different distance





... of the error, as it will appear at all. Dr. Abruzzo  
... a technical solution was simpler and would cost much less than  
... method.

REVIEW OF RECORDS

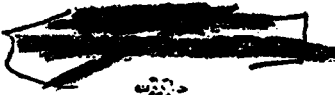
The reported cases were examined one at Belmont Mountain, Goldsboro,  
in October 1949, when cosmic ray counters went "off scale for a few seconds"  
apparently while a "V" of flying saucers was observed visually, and two, a  
series of observations by the "Los Alamos Bird Watching Association" from  
August 1953 to January 1954, when cosmic ray coincidence counters behaved  
strangely. Records of sightings and records were available for the latter, and  
Dr. Abruzzo was able quickly to point out that the recorded data were  
undoubtedly due to instrumental effects that would have been recognized  
as such by more experienced observers.

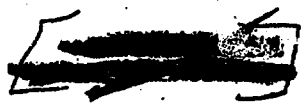
The implication that radioactive effects were correlated with  
unidentified flying objects in these two cases was, therefore, rejected  
by the Panel.

TRAINING PROGRAM

And Panel's concept of a broad educational program integrating  
efforts of all concerned agencies was that it should have two major  
aims: training and "de-training".

The training aim would result in proper recognition of unusually  
illuminated objects (e.g., balloons, aircraft reflections) as well as  
natural phenomena (meteors, fireballs, auroras, noctilucent clouds).  
Both visual and radar recognition are concerned. There would be many

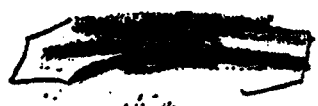




certain in each situation than selected personnel to command and research  
 personnel. Relative emphasis and degree of explanation of different  
 programs would correspond to the categories of duty (e.g., active operations;  
 military control tower operations; Ground Observer Corps personnel; and  
 officers and enlisted men in other categories.) This training should  
 result in a marked reduction in reports caused by misidentification  
 and needless confusion.

The "learning" aim would result in reduction in public interest  
 in "Mying rumors" which today evoke a strong psychological reaction.  
 This education could be accomplished by mass media such as television,  
 motion pictures, and popular articles. Parts of such education would  
 be actual case histories which had been pending at first but later  
 explained. As in the case of conjuring tricks, there is much less  
 stimulation if the "secret" is known. Such a program should tend to  
 reduce the current gullibility of the public and consequently their  
 susceptibility to clever hostile propaganda. The Panel noted that the  
 general character of Russian propaganda based on a subject with so many  
 obvious possibilities for exploitation might indicate a possible Russian  
 civil war policy.

Members of the Panel had various suggestions related to the plan-  
 ning of such an educational program. It was felt strongly that  
 psychologists familiar with mass psychology should advise on the nature  
 and extent of the program. In this connection, Dr. Hedley Carlisle  
 (Princeton University) was suggested. Carlisle authored "Invasion from



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Dr. E. S. Spence, a study in the psychology of music, written about the famous  
 Dr. E. S. Spence (who was lieutenant in 1945) and has done professional advanced  
 laboratory studies in the field of perception. The names of Ben Knight,  
 (University of Michigan) and Leo Rosten were mentioned as possibly  
 available as consultant psychologists. Also, someone familiar with  
 mass communication techniques, perhaps an advertising expert, would be  
 helpful. Arthur Godfrey was mentioned as possibly a valuable channel  
 of communication reaching a mass audience of certain levels. Dr. Spence  
 suggested the U. S. Navy (ONI) Special Services Center, San Francisco, Cal.,  
 as a potentially valuable organization to assist in such an educational  
 program. The teaching techniques used by this agency for aircraft  
 identification during the war are cited as an example of a similar  
 educational task. [The San Francisco office which made World War II training  
 films (motion pictures and slide strips) was also suggested, as well as  
 Walt Disney, Inc. animated cartoons. Dr. Spence suggested that the  
 amateur experimenters in the U. S. might be a potential source of enthusi-  
 astic talent "to spread the gospel". It was believed that business  
 clubs, high schools, colleges, and television stations would all be  
 pleased to cooperate in the showing of documentary type motion pictures  
 if prepared in an interesting manner. The use of two cases showing  
 first the "mystery" and then the "explanation" would be successful.

To plan and execute such a program, the Panel believed was no  
 small task. The current investigatory group at AFSS would, of necessity,  
 have to be closely integrated for support with respect to not only the

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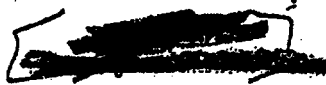
[REDACTED]

The following information was obtained from the files of the [REDACTED] and is being furnished to you for your information. It is noted that the [REDACTED] has been advised that the [REDACTED] is currently being investigated by the [REDACTED] and that the [REDACTED] is being held in custody at the [REDACTED]. It is also noted that the [REDACTED] is being held in custody at the [REDACTED] and that the [REDACTED] is being held in custody at the [REDACTED].

- 1. [REDACTED]
- 2. [REDACTED]
- 3. [REDACTED]
- 4. [REDACTED]
- 5. [REDACTED]
- 6. [REDACTED]
- 7. [REDACTED]
- 8. [REDACTED]
- 9. [REDACTED]
- 10. [REDACTED]

It is noted that the [REDACTED] is currently being investigated by the [REDACTED] and that the [REDACTED] is being held in custody at the [REDACTED]. It is also noted that the [REDACTED] is being held in custody at the [REDACTED] and that the [REDACTED] is being held in custody at the [REDACTED]. The [REDACTED] is currently being investigated by the [REDACTED] and that the [REDACTED] is being held in custody at the [REDACTED]. It is also noted that the [REDACTED] is being held in custody at the [REDACTED] and that the [REDACTED] is being held in custody at the [REDACTED].

[REDACTED]

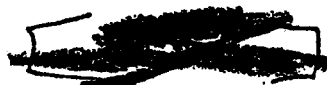


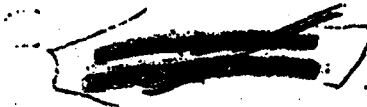
... of "public relations" at different distances  
... weather conditions at the site.

... of one or two paid agents and writers and a substantial  
... including them, would be necessary in addition. The Panel  
... that AUSA's efforts, temporarily expanded as necessary,  
... would be implementing any action taken as a result of  
... recommendations. Experience and records in AUSA would be of value  
... with the public educational and service training program envisaged.  
[The Director at least has of the opinion that after public gallantry  
... and the service organizations, such as AUSA, had been trained  
... to sift out the more readily explained opinion sightings, there would  
... be a role for a very modest-sized AUSA section to cope with the  
... stream of items of possible scientific intelligence value. This  
... should concentrate on energetically following up (perhaps on  
... of qualified Air Force Scientific Advisory Board members)  
... cases which seemed to indicate the evidence of unconventional  
... artifacts. Reports of such artifacts would be expected to  
... mainly from Western outposts in far closer proximity to the  
... than [redacted], [redacted]

EXTRACURRICULAR ORGANIZATIONS

The Panel took cognizance of the existence of such groups as the  
"Frontier Flying Saucer Investigators" (Los Angeles) and the "Aerial  
... Research Organization (Massena)". It was believed that  
such organizations should be watched because of their potentially





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F. K. DURANT III

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282

UNITED STATES DEPARTMENT OF  
COMMERCE  
BUREAU OF ECONOMIC ANALYSIS

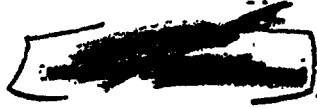
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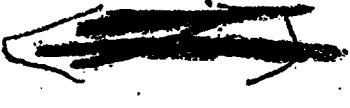


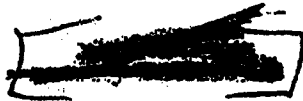


CONFIDENTIAL - SECURITY INFORMATION  
UNCLASSIFIED - SECURITY INFORMATION

14 JAN 1950

- 1. Summary and history of sightings 1951 - 1952 (indicated by [redacted] and those last [redacted]).
- 2. Summary and Program Report of Project [redacted] and Project [redacted] (also under the [redacted] class of subject).
- 3. Summary Report of Project [redacted] (also under for Battelle Memorial [redacted] and [redacted] with supporting [redacted]).
- 4. Summary Report of Sightings at Williams Air Force Base, New Mexico.
- 5. Report of USAF Research Center, Cambridge, Mass., Investigation of [redacted] Phenomena (Project [redacted]).
- 6. Summary of Investigation of U.F.O.s Reported by [redacted] Air Force Base (Project [redacted]).
- 7. Summary History Table of sightings at [redacted], Utah, 2 July 1948 and [redacted], Montana, August 1950.
- 8. Summary Report of the principal causes of sightings of various objects (Instruments, Landing Lights, Hovering, etc.).
- 9. Table of reports: "Do You Make a [redacted]", prepared at AED.
- 10. Chart Showing Map of Geographic Location of Unexplained Sightings in the United States during 1952.
- 11. Chart Showing Balloon Landing Areas in the United States.
- 12. Chart Showing Selected [redacted] Balloon Flight Paths and Relations to Reported Sightings.
- 13. Chart Showing Frequency of Reports of Sightings, 1948 - 1952.
- 14. Chart Showing Categories of Explanations of Sightings.
- 15. Statistical Representation of Polyethylene Film Balloons in Sightings (Chart Showing [redacted]).





243 1

- 16. Black picture of capsule in flight, showing high reflectivity.
- 17. Air Corps Reports relating to U.S. interest in U. S. Significance.
- 18. Copies of official WMS Reporting Forms and Copies of pertinent Air Corps, Army and Navy Orders Relating to subject.
- 19. Sample Polyethylene "Thin" Material (54 inches square).
- 20. "Wonders of Radar Coverage", JMW 302 (Manual illustrating unusual operating characteristics of Service radar).
- 21. Miscellaneous official letters and foreign intelligence reports dealing with subject.
- 22. Copies of popular published works dealing with subject (articles in magazines, newspaper clippings and books).

