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Jan - 1950
SAM
Trip Report
Lt Col Brown

UNITED STATES AIR FORCE
SCHOOL OF AVIATION MEDICINE
RANDOLPH AIR FORCE BASE
RANDOLPH FIELD, TEXAS

PEF/hr

USAF SAM 3D

19 September 1950

MEMORANDUM TO: Commandant
USAF School of Aviation Medicine
Randolph AFB, Randolph Field, Texas

1. In compliance with WD Form 67, dated 1 Sep 50, Dr. Paul E. Fields departed this station 3 Sep 50 for temporary duty at Pennsylvania State College during the meeting of the American Psychological Association. The entire time was spent in interviewing research psychologists from all over the country concerning our psychology program, and their recommendations are incorporated in this report.

2. The following Physiological and Comparative Psychologists were interviewed:

- Dr. Harry Harlow, University of Wisconsin
(Now Chief Consultant, U. S. Army)
- Dr. C. P. Stone, Stanford University
- Dr. Marion Bunch, Chairman, Department,
Washington University
- Dr. C. T. Morgan, Chairman, Department,
Johns Hopkins University
- Dr. A. G. Bayroff, Personnel Research Section, AGO
- Dr. Keith Hayes, Yerkes Laboratory of Primate Biology,
Orange Park, Florida
- Dr. J. P. Scott, Jackson Memorial Laboratory,
Bar Harbor, Maine
- Dr. L. S. Tsai, Tulane University, Former Chief
Psychologist, Nationalist Chinese Air Force
- Dr. Furchgott, University of Tennessee
- Dr. G. R. Wendt, Chairman, Department,
University of Rochester

In addition, Dr. S. J. Kaplan interviewed the following men:

- Dr. Karl Pribram, Department of Physiology,
Yale University
- Dr. C. I. Hovland, Chairman, Department at Yale
- Dr. Frank Beach, Yale University
- Dr. John T. Wilson, Director of Social Science Division,
ONR

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Dr. Quinn McNemar, Stanford University,
Consultant, ONR

Dr. Jack Hilgard, Chairman, Department,
Stanford University

Dr. Harry Helson, Chairman, Department,
Brooklyn College

a. Dr. Kaplan joined me at the APA Meeting on Sunday, having just closed out his work in the Yale Laboratory. He left part of his irradiated animals with Dr. Beach, and shipped about 90 rats to Dr. George Gentry at the University of Texas. He reported to me that it was the consensus of his Yale colleagues that his studies of the behavioral effects of irradiation represented the first studies of this kind in the country, that every attempt should be made to complete them with the greatest dispatch. Dr. John Fulton, Head of the Yale Physiology Department, personally agreed to supervise completion of Dr. Kaplan's study of infant chimpanzee behavior and Dr. Karl Pribram continue the work on frontal lobe function in the Guinea baboon. Dr. Hovland, Chairman of the Department of Psychology, was especially strong in his recommendation that primates be used in the irradiation studies. Dr. John Wilson, before he knew that Dr. Kaplan had moved to SAM had made arrangements to subsidize the irradiation primate studies through his Office of Naval Research.

b. The consensus of opinion was that we should immediately start work with primates in order to have data that would be most nearly applicable to human problems. It is known that drugs affect some of the lower animals differently than humans, and the variability of the LD irradiation dose is related to the species used.

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c. It was estimated that a colony of 20 rhesus monkeys would be large enough to provide reliable and valid data. These monkeys would cost from \$20.00 to \$25.00 apiece. Food for a colony of 30 monkeys was estimated to cost about \$1,000.00 per year. Apparatus for experimental work would cost around \$1,000.00. Outside of personnel costs, \$2,500.00 should be sufficient to set up a laboratory if space is provided.

d. The University of Wisconsin and the Yerkes Laboratories of Primate Biology would be interested in taking contracts with us, but both places are faced with the necessity of obtaining more space. In view of climatic conditions, it was suggested that the USAF School of Aviation Medicine should establish its own primate laboratory. Until such a laboratory is established, work with the white rat will probably be most valuable because of the wealth of standardization studies already available with that animal.

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3. I had conferences with Dr. John Flanagan and three members of his staff relative to our research contracts with the American Institute of Research. They are preparing proposals on the accident and the age study for our consideration. Dr. Flanagan had requested the USAF School of Aviation Medicine to issue orders which would authorize them to ride on military aircraft in pursuit of their present project. These orders have been sent to them at Pittsburgh.

Dr. Flanagan would like to have General Benson and other USAF School of Aviation Medicine staff officers give him a list of any names to whom he could send the preliminary study on accidents for criticism prior to printing of the final report.

4. Professor R. C. Davis of Indiana University was consulted with reference to our project on electromyography. He is one of the research leaders in this area and has developed some very sensitive apparatus in the last dozen years. He promised to submit a contract proposal, but the work would have to be done at Indiana because of the impossibility of moving the very delicate apparatus.

5. In an interview with Dr. Robert Kleemeier, Director of Research, Moosehaven, Florida, it was learned that his new laboratory was almost finished, and that it would be possible to move apparatus so as to be ready to gather data on aging about the first of November.

6. Commander V. W. Lyon of Pensacola, and Dr. Jack Dunlap of Dunlap and Associates were interviewed. I gave them a date of 6 November for completion of all the data now in the IBM Office in New York City. Commander Lyon was greatly embarrassed because of the discrepancies in the Navy records of the subjects used in the Pensacola Project, but said that he had had a number of men checking the records ever since he received our letter. We should have a final report on these records in the near future.

7. I had an opportunity to discuss the psychological program of our department in detail with Dr. Floyd Ruch, who is going in to Washington as Consultant in Psychology to the Air Surgeon. Ruch was to have had an appointment with General Armstrong last Wednesday. He interpreted his position as a "consultant to offset Human Resources on the R & D Board." I have known Ruch for the last 20 years and I believe we can count on a quality job from him. His brother, Theodore C. Ruch, Head of the Department of Physiology, School of Medicine, University of Washington, wrote Part Six "Illustrated Reference Manual: The Brain and the Nervous System" in Floyd's "Psychology and Life." We will therefore have a sympathetic proponent of our new program in the Pentagon.

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It is noteworthy that both the Army and the Air Force have chosen men with training in comparative and physiological psychology for their top jobs in psychology.

8. Dr. R. H. Seashore inquired about the status of his contract proposal and was told that it should be thru A.L.C. in about 30 days.

9. Dr. Francis Likert and Dr. Angus Campbell of the Survey Research Center, University of Michigan, expressed a desire to submit a contract proposal to the Department of Psychology in the area of personality measurement.

10. During the week I had one or more conversations with Dr. Robert G. Bernreuter, Dr. W. V. Bingham, Consultant to Director of Personnel, Army General Staff, Lt. Col. Charles S. Gersoni, Chief, Clinical Psychology Branch, Surgeon General's Office, Dr. Harold K. Hildreth, Chief, Clinical Psychology Section, Veterans Administration, Dr. Robert B. Morton, Clinical Psychologist, V.A. Hospital, Houston, Dr. Robert Blake and Dr. Glenn Ramsey formerly of the University of Texas, concerning other aspects of the USAF School of Aviation Medicine program. These have already been reported to Colonel Frese. It is believed that the Motivation and Personality Measurement Division of the Lackland Human Resources Research Center will expand into the area of Clinical Psychology, because of the very limited approach now being pursued by the SAM Department of Clinical Psychology. It will be recalled that the letter of 17 Nov 1949 on allocation of research responsibility gave the USAF School of Aviation Medicine primary responsibility for research and development in the area of clinical psychological and psychiatric screening and classification tests. Inasmuch as the present approach is primarily subjective (projective techniques), Human Resources is capitalizing on the more objective methods of experimental psychology, and can do so under the heading of "personality" measurement which is not directly medical in nature.

11. Returned from Temporary Duty on Saturday, 9 Sep 50.

PAUL E. FIELDS
Director of Research
Department of Psychology