

USAF SCHOOL OF AVIATION MEDICINE  
RANDOLPH AIR FORCE BASE  
RANDOLPH FIELD, TEXAS

SAMRADI

1 5 APR 1954

SUBJECT: Trip Report

TO: Commandant  
USAF School of Aviation Medicine  
Randolph Air Force Base  
Randolph Field, Texas

1. In compliance with the provisions of USAF SAM Regulation 11-13, dated 30 September 1953, this report is submitted on a trip authorized by Special Orders No. 64, paragraph 4, dated 2 April 1954.

2. The undersigned, accompanied by Captain John S. Orth, departed Randolph AFB 1630 on 6 April by staff car to San Antonio Airport for departure at 1730 for Chicago, Illinois, arriving Chicago Airport 2030 the same day; departed Chicago Airport at 0115 on 11 April, arriving San Antonio Airport 1000 hours 11 April.

3. Captain Orth and the undersigned visited the University of Chicago USAF Radiation Laboratory, and the Departments of Medicine (Hematology) and Biochemistry of Northwestern University Medical School, Chicago, Illinois, during the period from 7 April through 10 April 1954. At the former institution, business was conducted with Dr. Kenneth DuBois, Head of USAF Radiation Laboratory; and at the latter institution, business was conducted with Dr. Howard L. Alt, Assistant Professor of Medicine, and Dr. John A. D. Cooper, Assistant Professor of Biochemistry.

4. Discussions at the University of Chicago centered about negotiations (tentative) to extend the presently existing contract into FY 55 at no extra cost to the government. At the current rate of expenditure of FY 54 funds, it was felt by the School of Aviation Medicine (Department of Radiobiology) that sufficient funds would be remaining to carry on the major contract work required during the coming fiscal year. Dr. DuBois agreed that FY 55 funding, as proposed, was sufficient for the desired purpose. Certain economies would, of necessity, have to be instituted but they should in no way effect the outcome of the research results required by USAF SAM. Dr. DuBois suggested the possibility of opening negotiations with Mr. Pfister of SAM on the problems of accepting additional small outside contracts and an integration of the USAF Radiation Laboratory into one of the main departments of the University of Chicago.

5. A tour of the laboratories and facilities, and discussions with some of the personnel indicated a well-functioning laboratory with the production of results pertinent to the Department of Radiobiology, USAF School of Aviation Medicine.

6. Discussions at Northwestern University Medical School centered about the present research effort and their proposals for continuing, and somewhat enlarging their effort, if a contract renewal would be forthcoming in December 1954.

7. The present work on the nucleic acid metabolism of the hemopoietic system is not being accomplished in this particular fashion at any other laboratory. These investigators have been able to demonstrate marked differences in radiation effect between the in vitro and in vivo systems. Their methods are particularly well suited to study the effect of variation in rate of delivery of radiation and to study the neutron-gamma R.B.E. and additivity problem. Since they have available to them the new Argonne reactor, they feel that these latter studies should be accomplished under the funding of a renewal of contract. These studies would integrate well into the program of the Department of Radiobiology, USAF SAM.

8. The facilities at Northwestern are excellent and the research personnel are in the same category. It is the impression of the undersigned that for the amount of contract money expended, a high return is being paid.

*Walter A. Rambach*

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