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SCHOOL OF AVIATION MEDICINE, UNITED STATES AIR FORCE

RANDOLPH AIR FORCE BASE, TEXAS

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Prepared for the Command Historian, Air University,  
by the Historian, SAM, USAF:

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participated in a trip to Europe organized by Headquarters, Military Air Transport Service, Andrews AFB, for the purpose of familiarizing representatives of MATS, SAC, TAC, ConAC, and SAM with the development of a new integrated electronic and visual landing system for conventional and high performance aircraft. Drs. Rose and Geratwohl observed approach lights, runway lights, and marking systems at various installations--Andrews AFB; Rhine-Mein AFB, Germany; Schiphol Airport, Amsterdam; and the Royal Aircraft Establishment at Farnborough and Black Bush, England. They gathered information about new types of approach lights and landing systems installed at the various airports. The information was to be used to develop a new integrated approach and landing system for the U. S. Air Force. Dr. Rose subsequently presented his findings at a world-wide flying safety meeting at Biloxi, Mississippi.

Radiation Studies. Researchers in the Department of Radiobiology worked out new methods for the determination of creatine creatinine and guanido acetic acid in the plasma and urine, and in the process it was noted that a significant creatinuria in dogs and rats followed whole body irradiation. Studies were undertaken to relate the dose-effect relationship.

Synthetic studies on organic compounds which give radiation protection were continued and resulted in novel and simplified methods for the production of the compounds and their homologues.

Microwave Research. The Department of Radiobiology ended its second year on studies of microwave effects. Since a discussion