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PREGRESS REPORT - DIVISION OF SIGLOGY AND REDICINE - MONTH OF JULY, 1950

RESEARCH PROJECTS APPROVED OR RENEMED CORTING JULY 1950:

The following numbers of research projects were approved for negotiation or renewal during July for direct ADC administration:

ansai	No. of Projects	Amount
Biology Medicine	1 4	3 5,400 25,840
Biophysics Total	. 1	8,000 8 39,240

A list of the projects covered in the above summation is available in the Division of Biology and Medicine.

APPOINTMENT OF DR. N. EDWARD TOLDERT

Dr. Tolbert has joined the staff of the Division of Biology and Medicine and will be primarily concerned with the plant sciences and blochemistry program in the Biology Branch. Dr. Tolbert received his PhD from the Biochemistry Department at the University of Wisconsin. Before coming to Washington, Dr. Tolbert was with the Berkeley Radiation Laboratory.

INTERDEPARTMENTAL COMMITTEE ON HADIOLO ICAL MONITORINO

The Acting General Manager designated John A. Derry, Ward Miller, L. Joe Deal and Robert L. Butenhoff from this Division to serve on the NSRB Interdepartmental Committee on Radiological Monitoring.

MEDI AL BRUNCH

Dr. George A. Hardie of the Medical Branch and Mr. John V. Lannan of the Finance Division were in Japan during June and early July visiting the Atomic Bomb 'asualty' Commission. They spent about 2-1/2 weeks in Hiroshima at the main project and a few days at Magasaki.

Genetics work consisting of examination of all new-born infants has been in progress in both cities for two years.

A program of clinical examination of survivors at Hiroshima and a suitable number of controls from those who have moved to Hiroshima since the bombing is well under way.

Ophthalmological examinations by Dr. Rimura of the survivors at Hiroshima who were within 1000 meters of the hypo center revealed 75 cases of radiation cataracts of all stages. A similar progress is in progress at Nagasaki and 25 cases of radiation cataracts had been

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BIOLOGY BRANCH

injected into mice. The approximate amount that was retained in the skeleton was0.25 percent at the end of 24 hours, 0.03 percent at the end of one month, 0.02 at the end of 6 months, and 0.01 at the end of one year. The result is a skeletal redickion of about 0.07 resetions equivalent physical per day for the period 0 - 24 hours and 0.008 between 2 and 4 meks. Thus a single injection of 18 microscuries of MaRCHO, has resulted in a redistion of certain bone shaft calls which is imittally greater than the maximum allowable radiation of timese for man (0.04 rep/day). It should be recognized that these mice had received by imjection a dose of Chi which is larger than a man should receive in any experimental mark with radioactive earbon. At the Southern Research Institute 18 starocuries of MaRChio, were

radioearben 10 days. Earkers at the Radiation Laboratory at Farkelsy, California have used earbon fourteen to a tody biological half lives of the components of the blood in human laukests patients. Assording to the radioearbon glycine studies the life spen of the red calls of the first patient studied was approximately LOO days. The turnover time of the plasma slobulin rediocarbon was approximately li days and of the plasma globulin

Scientists working on the mechanism of the first product of photosynthesis is phosphoglymeric soid. The first fixed redicective (t), is all found in the carbony group of this compound. It follows then that a two carbon presured must proceed the formation of the first product of photosynthesis and considerable effort is being exerted to find this compound and to elucidate the mechanism of its formation. The close relationship of glysolis soid to this compound has been suggested by a number of experimental results. The distribution of redicearbon in glysolis soid invariably has been found to be symmetrical and to correspond to the equal alpha and beta labeling in phosphoglyceric soid obtained from short photosynthetic experiments.

CIVIL DEFENSE LIAISON BRANCH

Civil Defense Instructor Training Program

The fifth and last course, for radiological mention instructor trainess, jointly sponsored by the MERS and the ARC, ecomenced July at Illinois Lustitute of Technology, Chicago, Illinois. Seventeen students were excelled, representing the states of Illinois, Wiscons Indiana, Pennsylvania, Virginia, North Carolina, Arkansas, Texas, Cansas and Missouri. Wisconsin, 5

Survey on Hamards Related to Atomic Energy

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mately August ξ actual co attendent. of the interviewing, scheduled to start

University of Michigan 8 8 occupiates of carried out by the Survey Research Center,

possible radiation baserds arising out of an adequate cross section of adults of approximately 25 miles around: An intensive study of the ka actedge. and attitudes of Commission operations residing within a radius

1) Oak Ridge, Tennessee

2) Argonne Wetional Leboratory, Ellinois

3) Brookhaven Wational Laboratory, New York

4) Los Alamos, New Mexico

5) Manford, Washington

6) Ames, Lows

7) Barteley, California

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differences of not significently affected by atomic redintion heserds. population and other characteristics meeuring data on in knowledge and ducts a to Aprile possible similarities and stiltudes. 2 (control group), but toward possible

The contract covering this work calls for completion of the project by January 1, 1951.

Information Furnished MSRB

reviewed and revised in several, particulars prior to reprinting by the OPO. During the month the pumphlet "Medical Aspects of Atomic Weapons, jointly prepared by ASC and the Department of Defence for MSRS was

WORD Interagency Working Caroup - Interia Civil Defense Plans for Key Areas

SEL S Professor H. L. Bommen attended the Seattle Civilian Defense Exercise 10-21 inclusive as a representative of the Commission at the invita-of Mr. Eric Biddie, Chairman of the Interagency Working Group.

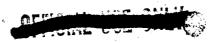
RADILITION INSTRUMENTS BRANCH

Monitoring Teams have been distributed to each of the four groups. Three of the groups have already held meetings to discuss operating procedures and general problems and to become familiar with the instruments. Devaluent on civilian defense radialogical monitoring instruments at each of the five AND installations is continuing, but the status has substantially during Alte containing equipment for the Washington AEC ğ month. Transamous. PATE Emergency Radiological Had. not changed with are Develop Three or 16--66741-1

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the National Sureau of Standards to conduct spectral sensitivity tests and with the Signal Corps at Fort Monsouth to conduct environmental and ruggedness tests on civilian defense type instruments. The first instrument, designed by the New York Operations Office, is scheduled for testing early in August.

The Radiation Instruments Catalog copy was shipped to Oak Ridge for printing and distribution. The Catalog will centain photographs and descriptive material on 193 items. Products from 35 companies are listed. The Bureau of Standards is preparing facilities to be made evailable to the Branch for calibrating, testing, and storing radiation instruments.

On July 17 alterations of a temporary NDS building were begun to provide facilities for calibration, testing and inspection of AEC radiation detection instruments by the RIB. Occupancy is enticipated on or about August 15. Approximately 15) square fact of testing space, 135 square feet of effective bin-storage space, and 225 square feet of bulk storage space will be available.

The Branch has received and forwarded to the areas the agendation the forthcoming meeting, sponsored jointly by the AEC-DOD, on the "Chemistry and Physics of Rediction Dominetry" to be held at the Army Chemical Center at Edgewood, Maryland.

The testing room will be equipped with a complete set of tools for making repairs on electronic equipment and for construction of small electronic devices. Testing facilities will include conventional apparatus required for calibration and repair of radiation detection equipment and related electronics repair.

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