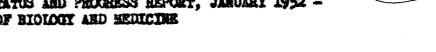


M. W. Beyer, General Manager

Shields Warren, M.D., Director Division of Biology and Medicine MONTHLY STATUS AND PROCRESS REPORT, JANUARY 1952 -DIVISION OF RIGIOGY AND MEDICINE FEB 19 1952





Transmitted herewith is the Monthly Status and Progress Report for the Division of Riology and Medicine for the month of January, 1952.

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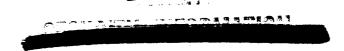
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Country-wide Monitoring. During the month of January, the final report covering the country-wide monitoring program for measuring radiometive fall-out was received from the New York Operations Office. This report represents the final analysis and findings of the fall-out studies in connection with the 1951 fall tests previously monitomed (November and December reports). During the month of James 7,

average integrated activity along the path of fall-out for the central thited States was about 0.9 curies/per square mile. The highest integrated activity was 6.2 curies/per square mile found in Rechester, Her Tork. This figure however represents an integrated dose of only some 15 millirocategors which is far below the maximum permissible limit of 50 mm/day continuous over a lifetime. It is of interpat to note that about 92 per cent of the fall-out in Rochester occurred during a three-day period of same and raincomplete report form presents important and useful cheervations on which tentative conclusions may be made. The report states, that in the Buster series for example, the full-out occurred principally along a path some 600 to 1,000 miles wide extending northeast agrees the United States. The This collection of experimental data assembled for the first time in

During the langle certies, the greatest radiometive dust concentrations were observed at Eller, Newada, where the highest 24-hour average activity is now reported to have been 0.02 microsuries per cubic meter of air. This is well below the care level of 1.0 microsurie per cubic meter agreed upon by the Peasibility Committee (July report).

An expension of the ocuntry-wide maniforing program is planned with the further cooperation of the U.S. Heather Bureau for the lumblar-Snapper series. The Bureau will have sudditional stations, making a total of LOS, which will collect the fall-out. These fall-out samples will be sent to the Health and Safety Division at New York for uniform counting through the use of a new automatic counter developed by the New York Laboratory. (MIN OF SECHET)

More-Molordeal Effects of Proton Lyndiation (UNCLASSIFIED)

Interesting progress has been deconstrated by the Microbes: Project Dr. R. R. Zirkle at the Briversity of Oxionge Institute for Buclear

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Redation Cataraga Studies (United Antice)

Considerable progress has been indicates that appreciantally in produce that appreciantally in produce that appreciant externel explaining the large latent per development of externels in a committee. This therepis a combine migration of decognic calls STATE OF · Lasters

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that the langue partials of time sections paralied his rates be reduced by a factor of 10. The intent of the policy is to define for the ecutractor an objective in terms of limits of exposure to eff-cits personnel with a minimum of specific restrictions.

ion of Believies Instruments and Beliedesboses (Wollssiffin)

During the month, approvals more granted for lease for civil defence training was as fallows: Justingsing - Terms Divisions of Jeffens and Disserter Maliot, and the civil before Agency, Terminy of Hamailj Religiosistes - Georgia State Civil Defence Agency.

Sederalliarden Counter Server listen (Biclissiffus)

Specifications for a partible field type established on counter survey motor were jointly developed by the U.S. Gaslagical Survey and the Atomic Energy Commission during the scouts of Jenneyy. Resistions to bid on the production of 100 of these units were sent to 25 instrument conjunies. The law bidder, Resistrate Corporation of Failadalphia, Ferneyiyands, was sauded the contract. Dalivary of 21 of these instruments is required by May 1, 1952 for use by the USGS and AEG field are survey teams.

ler Redicioer Jeberatorr. Sen Francisco. dell'Armie (MCLASSIFIE)

On Japanery II, the new Endicinery Laboraturery of the University of Callifornia Medical Conter, San Francisco, housing a 70-cillion valt synchrotron was Security opened. The members of the Advisory Committee for Minley and Medicine and the staff of the Division of Minley and Medicine participated in the our wanty.

this facility represents the bhird of four major All-exported laboratories for research on the treatment of excess to be completed. Apperimental therapy write are now operating of the Midge and Scoolderen. The Argence Cancer Respital, which is the fourth facility, should be getting into full speciation in add-1953.

Construction of Molory Building at Los Liames (UNILLASSIFIED)

Construction of the new Miclogy Building at ion Alamon has been ad. The cost of this building will be approximately \$2,283,000 stimuted completion date is July 1933.

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Conference - Redicactive Carbon (G-14) (UNCLASSIFIED)

A conference was held at Argome National Laboratory on the toxicity of radioactive earbon to animals and humans, and proper methods of handling it. Representatives from essentially every laboratory in the United States which has had extensive experience with radioactive earbon attended the meeting.

The information presented during the meeting indicated that current enfety regulations purhaps have been unusually stringent and enald be relaxed something even though Carbon-15 in considered heavelous.

Scintillation Counter Summation (UNCLASSIFIED)

The Scintillation Counter Symposium was held on January 29-30 in Mashington, D.C. A significant side light of this meeting was the fact that nearly 400 registrants attended. This represents an increase of 100 per cent as compared to registrations for the last meeting. A similar conference is being tentatively schooled for mid-1953.

FCDA Conference of State Civil Defence Directors (UNGLASSIFIED)

At the invitation of the Federal Civil Badance Administration, Consistence T. E. Gleman addressed the Genfurence of State Civil Defence Directors on Jamany 11 at the Hardman Park Hetel, Washington, B.C. This address was on the subject of ABC-FCDA problems and relationships and the ways in which AEC has been able to assist the national civil defence program. Following his Stand remarks, Consistence Gleman and susbers of the staff of the Division of Rielegy and Medicine responded to questions from the floor. Copies of Dr. Gleman's address were provided the staff of the Joint Consistes on Atomic Storgy on Jamany 15.

Meeting of the Advisory Committee for Melour and Mediaine (UNCLASSIFIED)

The Advisory Countities for Biology and Medigine held their JOth meeting at the University of Galifornia, Bertsley, California, on Jamesy 10, 11, 12, 1952.

On January 10, numbers of the Countition, together with staff numbers of the Division of Biology and Medicine and Dr. H. C. Fidler of the Berkeley Area Office, visited the Davis Caupus of the University of California, where studies on the effect of radiation on the longevity of

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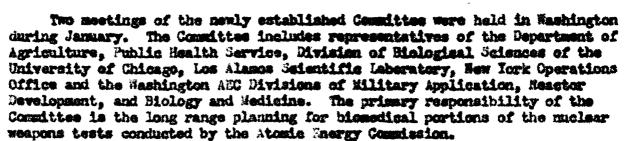
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dogs are being carried on.

US DOE ARCHIVES

On January 11 the staff of the Radiation Laboratory at the University of California reviewed for the Advisory Committee the various AEC research projects. The meeting was followed by a visit to the Livermore Site and to the opening of the new radiology laboratory in San Francisco, California. Next meeting of the Committee will be held in Washington, D.C. April 4-5, 1952.

Biomedical Test Planning and Screening Committee Meetings



The first meeting was a general orientation session. The second meeting was attended by Dr. Alvin C. Graves, Scientific Director of the Test Program, and Dr. Randolph Lovelace, Director of the Lovelace Foundation. Major consideration is being given to fission fall—out materials and their movement in soils, in bodies of water, uptake by plants and animals, and aquatic organisms. It was agreed that these problems would be most serious with respect to underground detonations. Although some of the projects may need to be carried on at the test site, much of the work can be done by collecting the active fall—out material and transporting it to the laboratories for plant and greenhouse studies. (LEWE) OF COMMENTALL.

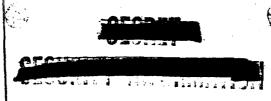
Structures Test Planning and Screening Committee (UNCLASSIFIED)

This Committee held its first meeting on January 3 in Mashington, D.C., following a joint meeting with the companion committee on biomedical experiments (see above). Subsequently, the Structures Committee met again on January 10 and January 31. Test proposals have been presented to the Committee by the Federal Civil Defense Administration, Public Buildings Service of GSA, and several ABC Divisions. Representatives of the Los Alamos Scientific Laboratory and the Air Forces Special Meapons Project of the Department of Defense were present at the January 31 meeting and gave the Committee valuable guidance with respect to previous test experience and future possibilities.

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Visit to Cold Spring Harbor Project (H.I.) (UNCLASSIFIED)

The project conducted by Dr. Bruce Wallace at Gold Spring Harbor, L.I., New York was visited by a representative of the Division on January 28. The studies by Dr. Wallace of experimental populations of Drosophila expected to chronic irradiation with radium of 5 r per day through the lifetime of the flies (or about 300 r total) show consistantively that the fly populations adjust to the increased deleterious genetic metations and the lethal genes become balanced without over-all injurious effects or distinction in numbers as compared with controls. With chronic expense of 1,000 r total however, the population repidly successes and disc off.

Moeting of U.S. Public Health Service (UNCLASSIFIED)

At the request of interested States, the USPES has been making a survey of the health problems associated with uranism mining. A meeting attended by a representative of the Division of Sielegy and Medicine was held in Cincinnati, Ohio January 23 by the USPES to review the progress of this work. Conditions in some 48 mines have been investigated by USPES, and, as a result of the survey, it is indicated that additional ventilation may be desirable. Consequently, the Division of Raw Materials in expectation with the USPES is arranging for more controlled studies of the effects of ventilation in certain selected mines. It is expected that the USPES will prepare a report of their findings for the mine operators and interested States.

Assistance to MCDA Preject "East River" (UNCLASSIFIED)

"Rast River" is the code name for a study intended to assess and evaluate the impact of atomic, biological, chemical and radialogical warfare on the national economy. This study is being undertaken by Associated Universities, Inc. as contractor to Federal Civil Defense Administration, Department of Defense, and the National Security Resources Board.

Hembers of the Civil Defense Liaison Branch set during the south with representatives of this project to discuss estimation of physical damage and ensualties in the event of a wide-spread atomic attack in this country. Data on Japanese experience at Miroshima and Magasaki were provided this group.

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