

#### M. W. Boyer, General Manager

Shields Warren, M.D., Director Division of Riology and Medicins MONTHLY STATUS AND PROGRESS REPORT, MARCH 1952 -DIVISION OF BIOLOGY AND MEDICINE

April 14, 1952

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> Transmitted herewith is the Monthly Status and Progress Report for the Division of Biology and Medicine for the month of March. 1952.

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CC: J. H. Burchard

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produces difesone breaks (sutations) in dividing skin calls. This radioactivity in the water in which aquatic animals live produces changes hadiation iffects of Phosphurus. (UNGLASSIFIED) Recent findings by the University of North Carolina in the study of radioactivity in the Costallo. Research Activities in their surrounding water on exlamander larves have been recostable. It has been determined that the uptake of tissues and possible genetic mutations. been reported by Ur. the water

of offspring as well as genetic mutations. result from contaminated food is being shown embryos increase in nu to the food of the wasp Habrobragen, and results to date indicate that above 200 signosuries/gram, egg production is decreased and abnormal ambryos increase in number. Thus ingested radioastivity such as wight At North Carolina State College, a study by Dr. D. S. made of the genetic effects of ingested phosphorus. P-32 to produce p-32 is being added effects on growth Grough to being

Activity of Fission Products in Addusts. (UNCLASSIFIED) The uptal and deposition of several fission products into the edible tissues and skeleton of cattle have been under investigation at the University of Tennasses project. (UNCLASSIFIED) The uptake

cent of the ingested amount of each of these elements is retained in the body, and thus/are not dangerous. It has been shown that protosotinium, tantal poorly absorbed from the gastro-intestinal tract. tantalne, and lanthamum are treat. Less than 0.01 per

was found to be very low, while the the strontium had been eliminated by renal and femal exerction. relatively high. in order to determine milliouries of 3-90, and at intervals In experiments using strontium, yearling atomrs were fed 5 or strontium was secreted Seven days after intake, approximately 70 per cent of the activity in the tissues. eren-day partod, generation in the bones was Ð to six sonths activity in the meat prison of the milk per sent of the re sacrificed 5

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Mational Research Council Countites on Disaster Studies. (UNCLASSIFIED) At the request of the Department of Defense, and in ecoparation with many of the Executive Agencies, the Mational Research Council has recently constituted a Countites on Disaster Studies. Rebert L. Corobie and Harry L. Bowman have accepted invitations to serve as linious member for architecture and as engineering consultant respectively.

ARG Certifying Office for Federal Civil Defence Braining Centers. (UNCLASSIFIED) At the request of FCDA, the Civil Defence Linion Branch will serve as a focal point for handling the appointments of AEC Attendeed at the several FCBA training centers.

#### Industrial Health

#### 1. Bealth-Physics

Radiological Pallowship Program. (WMCLARMIFIED) Porty-seven Radiological Physics Pellows were selected on March 7, 1952 from among more than one hundred applicants for training in health-physics work in Consistion and other radiation laboratories. The followship enerse is of one year duration and will begin in September 1952. Thenty-five follows will study at Vandarbilt University and take field training at the Cak Ridge Bealth physics laboratory. Thenty-two follows will study at Raghester University and take field training in the Brookheven health physics laboratory. Previous experience has shown that graduates of these courses are in high demand in the field of health-physics, and a large majority of them have been placed on AEC projects.

The followship program is administered by the Cak Ridge Institute of Nuclear Studies and selections are made by the Radiological Physics Fellowship Board. The Board consists of one pepresentative each from Rochester University, Vanderbilt University, Brockhaven Mational Laboratory, Oak Ridge Mational Laboratory, Oak Ridge Enstitute of Huslear Studies, and the Oak Ridge and Machington Atomic Energy Counterion offices.

Hentron Symposium. (UNGLASSIFIED) A symposium on the biophysical and biological effects of neutrons, spensored by the Division of Biology and Medicine, set in Washington on March 17-18, 1952.

Disquestions which followed the meeting revealed that while present personnel monitoring methods are not entirely satisfactory, useable portable devices for adequate measurement of neutron flux ever a wide range of energies have been developed. With respect to biological effects, it was agreed that enterest formation in the eye lone, and action on the gonade (sterility and genetic effects) were the mritical neutron effects, and that these need evaluation entirely apart from any reference to a permissible exposure limit of 0.3 rem (roomtgen-equivalent-man).

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#### 2. Industrial Medicine

Soring Meeting of Industrial Physicians. (UNCLASSIFIED)
Industrial physicians engaged in the atomic energy program will hold a
meeting in Rochester, New York, on May 15-16, 1952. The sessions will
be held at the Atomic Energy Project, School of Medicine and Dentistry,
University of Bachester.

#### J. Radiation Destruments

Pourth Technical Cooperation Conference, (UNCLASSIFIED)

A Technical Cooperation Conference on Instrumentation is scheduled to be held this year in the United States. Breatheven Mational Laboratory has been selected as the site for the Sourth meeting which is scheduled for Jone 11, 12, 13, 1952. The Radiation Instrument Branch will be responsible for secretinating all the arrangements for the session. This will be the fourth in a series of susual Bripartite Instrumentation Conferences which have been held successively in Oak Ridge, Chalk River and Harwell for the purpose of exchanging information on Canadian, English and American radiation instrumentation developments.

Scintillation Grystals for Newtons. (UNCLASSIFIED) The scope of the contract with the Harshaw Chemical Company has been expanded to include work on the development of processes and procedures for producing tin activated lithium indide crystals. These crystals show great promise for use in neutron spectroscopy and other neutron measurements in that their sensitivity to thermal neutrons is much greater than most presently existing neutron detectors.

#### General

Trinity Site - Alexagorde, New Mexico. (UMCLASSIFIED) Governor Mechem of New Mexico recently pretested the action of the Atomic Energy Commission to dispose of trinities at the Trinity Site, seems of the first atomic bomb detonation. As a result, Dr. J. C. Bugher, Deputy Director of the Division, and Mr. Carroll Tyler, Manager of the Senta Fo Operations Office, met with the Governor in Senta Fo, New Mexico on March 11, 1952. The potential health hazard arising from the decay of trinitite, and the medical-legal problem inherent in the situation were discussed. It was stressed that the Commission was favorable to maintaining all historical features of the site consistent with removal of the potential health hazard. Action will be initiated by the Governor with the Department of the Army, which has cognimance of the land on which the site exists, and the Mational Park Services.

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to resommend plans in addition to those already contemplated for the preservation of the historic interest of the site. The Governor will also maintain close liaisen with Representative Fernandes who has introduced a bill into Congress for preservation of the site.

In the meantime, the work under a contract to surface the area of the site will be postponed for approximately 30 days.

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