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MONTHLY STATUS AND PROGRESS REPORTS
FEBRUARY 1949

Exempt

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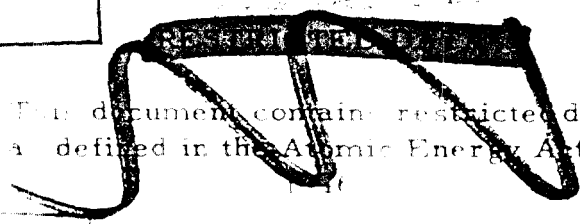
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Activity of Allison

Speeches

Dr. Sheldon Warren addressed a group at the Naval Medical School on February 14 on "The Environmental Biology of Ionizing Radiation".

Dr. John Power attended the National Cancer Conference as sponsored by the American Cancer Society in Memphis, Tennessee on February 14 and gave a contribution on "Cancer Research in the Atom Bomb Era".

GAC Meeting

Dr. Alexander, Chairman of the Advisory Committee for Biology and Medicine, appeared before the General Advisory Committee on February 14 and discussed the work of the Committee's function in regard to the assistance to the Division of Biology and Medicine of the Atomic Energy Commission in the field of biological problems.

Dr. Power of the Department of Physics in radiation hazards in connection with the nuclear industry and the work in atomic energy, presented a comparative statistics

Report to Congress

It is planned that the sixth Semiannual Report to Congress will highlight the fields of biology and medicine as used in naval research. Accordingly, all contract investigators of the Division of Biology and Medicine are being requested through a form of Naval Research to provide a summary of their accomplishments for the past six months for a nucleus for this report.

Advisory Committee for Biology and Medicine

The Advisory Committee for Biology and Medicine met in Washington on February 11 for their bi-monthly deliberations which included discussion of the "AB" project at the University of California.

The committee recommended that it would be desirable to conduct a study which may be useful for cancer research studies on the use of the lung.

The committee further recommended that a staff member be appointed to collect information and to study the relations to agencies concerned with defense of the civilian population and the training of appropriate personnel to handle disasters and emergencies.

Research Projects

The following research projects have been approved by the Division of Biology and Medicine during the month of February.

Medical Branch

1. University of California, Berkeley, Calif. - Dr. A. H. Arnesen - "Relationship Between Radiation Damage and the Immunity State" - \$33,000 (Office of Naval Research Award)

University of California - Dr. C. D. Van Dyke - "Radiochromatic Study of the Distribution and Retention of Cesium-137 in the Rat" - \$10,000 (AB - New)

University of California - Dr. George E. Moore - "Methods and Apparatus to Improve Localization of Radioactive Tracers in the Body; with Special Reference to the Diagnosis of Brain Tumors" - \$10,000 (AB - New)

- (4) University of Virginia - Dr. C. L. Gemmill -
"Effect of Beta Radiation on the Distribution of
Phosphate in Red Blood Cells and Cardiac Muscle" -
\$10,500 (AEC - New)
- (5) Meharry Medical College, Nashville, Tenn. -
Dr. Paul Hahn - "Treatment of Neoplasms by the
Direct Infiltration of Radioactive Iodine". -
\$60,000 (Transfer from ONR to AEC)
- (6) University of Michigan - Drs. R. L. Mann and F. J. Hodges - "Universal Serological Reaction
following Irradiation" - \$27,000 - AEC - New
- (7) Henry Ford Hospital - Dr. F. W. Hartman -
"Preliminary Studies on the Use of Nitrogen
Mustard in the Sterilization and Preservation
of Blood" - \$1,500 (AEC - New)
- (8) Beth Israel Hospital - Dr. H. L. Blumgart -
"Studies of Radioactive Iodine Therapy of Graves'
Disease and other related Thyroid Disorders" -
\$44,500 (ONR Renewal)
- (9) Memorial Hospital - Dr. C. P. Kneads -
"Investigation Involving Use of Isotopes and
Radiation in the Study of Special Tumors, Protein
Chemistry, Experimental Pathology, Immunochimistry
and Immunology" - \$110,000 (ONR Renewal)
- (10) Hooper Foundation, University of California -
Dr. H. Becke - "Metabolism of Radioactive Fluorine
with reference to Dental and Skeletal Structures" -
\$5,000 - AEC - New
- (11) University of North Carolina - Dr. Arthur Roe -
"Biological Effects of Using Gamma Rays" - \$2,000
(AEC - New)

Biology Branch

- (1) Sloane Physics Laboratory, Yale University - Dr.
E. C. Pollard - "Irradiation of Viruses and Large
Molecules" - \$1,000 for 1948 and 1949
- (2) Sloane Physics Laboratory, Yale University - Dr.
E. C. Pollard - "Molecular Aspects of Serologi-
cal Agents" - \$1,000

(1) North Carolina State College, Raleigh, N. C. -
Mrs. W. E. Colwell and N. S. Hall - \$20,850 for
1949 and 1950 - "The Movement of Ions through
Cell Systems".

(2) North Carolina State College, Raleigh, N. C. -
Dr. W. D. Gregory - "Mutual Seed Irradiation" -
\$17,115.

(3) Long Island Biological Association, Cold Springs
Harbor, L. I., New York - Dr. M. Demerec - "Study
of the Accumulation and Elimination of Deleterious
Mutations in Experimental Populations Exposed
to Variations" - \$15,000.

(4) U. S. Department of Agriculture - Dr. P. V. Cardon -
"The Improvement of Soil Management and Crop
Production Through Investigations with Isotopes" -
\$15,000.

Applied Biophysics grants:

(1) University of Florida - Dr. A. A. Bless - "A
Study of Bioelectric Potentials of Plants and
Animals as a Function of Radiation Injury" -
\$15,000.

Biology grants:

Dr. Jensen, together with the Medical Director of the
New York Operations Office, made an inspection of the facilities
of the Long Island Biological Association, Cold Spring Harbor,
Long Island, on February 9. Negotiations are going forward
for laboratory studies on the dynamics of population under the
influence of irradiation, using fruit flies as test animals.
He also visited the University of Nebraska on February 18,
discussing a cooperative project administered by the Argonne
National Laboratory on irradiation of corn pollen. He dis-
cussed the nature of biological synthesis experiments using
algae with Dr. Jensen with Dr. Green and Dr. Scully at the Argonne
National Laboratory on February 19.

Medical Grants - Cancer Research:

The Commission has approved a program initiated by
the Division of Biology and Medicine to stimulate cancer
research by distributing radioactive isotopes beyond what was
originally contemplated. It proposes to add to the list
for free distribution of isotopes investigators other

radioactive isotopes and in particular Cobalt 60. It is estimated that an expenditure of \$150,000 will be required annually to further this program.

Applied Biophysics Branch

A joint meeting was held in New York on February 8 with representatives of the United Kingdom and the Atomic Energy Commission in which maximum permissible exposures for humans and permissible levels of radioactive material for wastes, water and air were discussed. The British representatives pointed out that the AEC was the only place they could look for human and animal data for evaluating the maximum permissible radiation levels. It was agreed that the AEC would try to lend assistance to the United Kingdom in obtaining reports from the National Committee on Radiation Protection.

In the general discussion on waste disposal, the question of the maximum permissible level of material polluting public streams was discussed. Several plans now in use by the United Kingdom are being explored by the Atomic Energy Commission to see if they are applicable to similar conditions in the United States.

Radiation Cataract Survey

At the instance of the Division of Biology and Medicine the Division of Medical Sciences of the National Research Council has initiated and is directing an investigation of the ocular changes related to cyclotron exposures. A Committee on Radiation Cataracts has been established for this study. This Committee will submit proposals for study of cases of cataracts and for research to the Division of Biology and Medicine for consideration.

Dr. Lawrence Tuttle visited Oak Ridge on February 9 to attend a Seminar on Radiation Eye Damage.

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