

*JW*

US DOE ARCHIVES  
**326 US ATOMIC ENERGY**  
 RG **COMMISSION**  
 Collection *Division of Biology Medicine*  
 Box 1  
 Folder 5

~~CONFIDENTIAL~~

709019

March 23, 1949

TO: Commissioners and Division Heads  
 FROM: Carroll L. Wilson, General Manager  
 SUBJECT: Meeting of the Advisory Committee for Biology and Medicine

The fifteenth meeting of the Advisory Committee for Biology and Medicine will be held on April 8-9, 1949, at the Brookhaven National Laboratory, Upton, L.I., New York.

Invitation is cordially extended to attend this meeting.

April 8, 1949

Inspection of facilities - 9:00 A.M.

April 9, 1949

Agenda - 9:00 A.M.

1. Consideration of the Minutes of the meeting at the Atomic Energy Commission, Washington, D. C., on February 12, 1949.
2. Report on support of research.
  - a. Proposals approved since February 12 meeting:

To Oak Ridge:

- (1) University of Florida - Dr. A. A. Bless - "Investigation of Bioelectric Potentials of Plants and Animals as a Function of Radiation Injury" - \$15,250

Salaries	\$8,000
Equipment	1,250
Overhead	3,500
Miscellaneous, supplies, etc.	2,500

Total Request \$15,250

*See Minutes*

*put*

DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
SINGLE REVIEW AUTHORIZED BY: <i>Senigalli 5/23/94</i>	DETERMINATION (CIRCLE NUMBER(S))
REVIEWER (DDP): <i>R.P. Schmidt</i>	1. CLASSIFICATION RETAINED
NAME: <i>R.P. Schmidt</i>	2. CLASSIFICATION CHANGED TO:
DATE: <i>5/23/94</i>	3. CONTAINS NO DOE CLASSIFIED INFO
	4. COORDINATE WITH:
	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED

1059509

~~CONFIDENTIAL~~

(2) North Carolina State - Dr. W. C. Gregory - "Peanut Seed Irradiation" - \$17,145

*ok*

Salaries	\$9,450
Equipment	2,500
Travel	2,000
Overhead	945
Miscellaneous, Supplies, etc.	2,250

*2/1/49*

Total Request \$17,145

(3) North Carolina State - Dr. N. E. Hall - "The Movement of Ions Through Soil Systems" - \$20,850

*ok*

Salaries	\$12,200
Equipment	5,650
Travel	600
Overhead	2,400

*2/1/49*

Total Request \$20,850

(4) University of North Carolina - Dr. C. D. Van Cleave - "Radioautographic Study of the Distribution and Retention of Beryllium in the Rat" - \$30,000

*See the Minutes put*

Salaries	\$2,200
Equipment	1,200
Travel	400
Miscellaneous, Supplies, etc.	26,200

Total Request \$30,000

(5) University of Virginia - Dr. C. L. Gemmill - "The Effect of Beta Radiation on the Distribution of Phosphate in Red Bloodcells and in Cardiac Muscle" - \$10,500

*ok*

Salaries	\$6,000
Equipment	1,850
Travel	200
Overhead	935
Miscellaneous, Supplies, etc.	1,515

\$10,500

~~CONFIDENTIAL~~

- (6) Meharry Medical College - Dr. P. F. Hahn - "The Use of Radioactive Gold in the Treatment of Various Tumors by Direct Infiltration" - \$60,000

*Est*

Salaries	\$38,400
Equipment	6,375
Travel	1,500
Overhead	7,700
Miscellaneous, Supplies, etc.	<u>6,025</u>
Total Request	\$60,000

- (7) University of North Carolina - Dr. A. Roe - "Supplies and Equipment for Carbon 14 Research" - \$2,000

*ok*

Equipment	\$2,000
-----------	---------

To Chicago Office:

- (1) University of Kansas - Dr. E. R. Hall - "Radium Chloride and Hemopoietic Physiology of Native Rodents" - \$11,040

*Sub minutes out*

Salaries	\$5,400
Miscellaneous, Supplies, etc.	5,640
Total Request	<u>\$11,040</u>

*Jan 20, 1948*

*ok*

- (2) Henry Ford Hospital - Dr. F. W. Hartman - "Pilot Experiment" - \$1,500

- (3) University of California - Dr. J. H. Lawrence - "Effects of Irradiation on Animal Tissues" - \$33,250

*Est. All of it has been project*

Salaries	\$16,290
Equipment	8,315
Travel	665
Overhead	7,980
Total Request	<u>\$33,250</u>

*Jan 20, 1948  
orig. grant  
33,250*

- (4) University of Michigan - Drs. R. L. Kahn and F. T. Hodges - "Universal Serologic Reaction Following Irradiation" - \$25,000

*All of it has been project*

Salaries	\$19,540
Travel	400
Overhead	3,060
Miscellaneous, Supplies, etc.	2,000
Total Request	<u>\$25,000</u>

✓ (5) University of California - Dr. H. Becks - "Studies on the Metabolism on Radioactive Fluorine and Particular Reference to Dental and Skeletal Structures" - \$5,000

ok

Salaries	\$3,800
Equipment	780
Overhead	380
Miscellaneous, Supplies, etc.	40
Total Request	<u>\$5,000</u>

✓ (6) Oklahoma A. & M. - Dr. O. M. Smith - "Study of Cytogenetic Effect of Irradiation, Using Radioactive Isotopes on Bacteria" - \$5,740

3/10

ok

Salaries	\$3,800
Equipment	1,000
Travel	300
Overhead	540
Miscellaneous, Supplies, etc.	300
Total Request	<u>\$5,740</u>

✓ (7) Ohio Agricultural Experiment Station - Dr. R. S. Davidson - "Physiology and Genetics of Plant Pathogenic Micro-organisms When Grown in Presence of Various Radioisotopes" - \$2,400

3/10

ok

Salaries	\$1,400
Equipment	750
Travel	25
Miscellaneous, Supplies, etc.	250
Total Request	<u>\$2,400</u>

✓ (8) University of California - Dr. M. Kleiber - "Research on the Metabolism of P32 and the Utilization of Metabolites Such as Acetate, Lactate, etc." - \$16,000

ok

Salaries	\$8,000
Equipment	4,500
Miscellaneous, Supplies, etc.	3,500
Total Request	<u>\$16,000</u>

(9) University of Minnesota Medical School - Dr. G. E. Moore - "Study of Methods and Instr. to Improve the Localization of Radioactive Materials in the Body" - \$16,000

✓  
ok

Salaries	\$7,770
Equipment	3,475
Overhead	1,150
Miscellaneous, Supplies, etc.	3,605
Total Request	<u>\$16,000</u>

To New York Office:

(1) Johns Hopkins - Dr. A. Wolman - "Investigation of the Absorption and Assimilation of Radioactive Materials by Surface Slimes" - \$12,200

out

Salaries	\$4,600
Equipment	5,000
Travel	400
Overhead	900
Miscellaneous, Supplies, etc.	800
Total Request	<u>\$12,200</u>

(2) Mt. Sinal Hospital - Dr. R. Loevinger - "Measurement of Tissue Doses Due to Gamma and Beta Active Radioisotopes" \$5,000

out ✓

Salaries	\$2,500
Equipment	1,500
Miscellaneous, Supplies, etc.	1,000
Total Request	<u>\$5,000</u>

(3) Yale University - Dr. E. C. Pollard - "Monomolecular Layers of Serological Agents" - \$4,500

ok ✓

Equipment	\$4,500
-----------	---------

(4) Yale University - Dr. E. C. Pollard - "Irradiation of Viruses and Large Molecules" - \$8,000

ok ✓

Salaries	\$6,000
Equipment	1,600
Miscellaneous, Supplies, etc.	400
Total Request	<u>\$8,000</u>

- (5) Long Island Biological Assn. - Dr. M. Demerlec - "Study of the Accumulation and Elimination of Deleterious Gene Mutations in Experimental Populations Exposed to Radiations" - \$55,000

Salaries	\$32,400
Equipment	14,000
Travel	700
Overhead	3,200
Miscellaneous, Supplies, etc.	4,700

Total Request \$55,000

- (6) Columbia University - Dr. S. W. Werner - "Use of Radioactive Iodine in Developing Quantitative Assay Method for Thyrotropic Hormone" - \$4,600

Salaries	\$2,400
Equipment	800
Miscellaneous, Supplies, etc.	1,400

Total Request \$4,600

- (7) Conn. Agr. Exp. Sta. - Dr. Horsfall - "Therapy of Plant Disease by Nuclear Radiations" - \$8,000.

Salaries	\$4,000
Equipment	2,500
Travel	500
Miscellaneous, Supplies, etc.	1,000

Total Request \$8,000

b. Proposals extended since February 12 meeting:

- (1) University of California, Berkeley - Dr. A. P. Krueger - "Relationship between Radiation Damage and the Immunity State" - \$33,000; *Original grant \$20,000; Total \$53,000*
- (2) Beth Israel Hospita, Boston - Dr. H. L. Blumgart - "Studies of Radioactive Iodine Therapy of Graves Disease and other Related Thyroid Disorders" - \$44,500; *Supplement \$12,000; Orig. grant \$34,142; Total \$110,642*
- (3) Memorial Hospital, New York - Dr. C. P. Rhoads - "Cancer Research" - \$140,000 - (Sloan-Kettering Inst.)

(Sloan-Kettering Institute, Cont'd.)

Cancer Research - \$140,000

Physics Division

Salaries	\$36,530
Supplies (including purchase and maintenance of animals, construction, miscellaneous)	18,000
	<hr/>
	\$54,530

Discussion mem Hoop research - Petermann.

Protein Chemistry Division

Salaries	\$29,740
Supplies (including purchase and maintenance of animals, construction, miscellaneous)	18,352
	<hr/>
	\$48,092

Subcommittee to draw up on In general not desirable that AEC fellowships be supplemented on AEC funds to need to suppl. fellowships. Stohman, Hastings, Bonds.

Experimental Pathology Division

Salaries	\$23,355
Supplies (including purchase and maintenance of animals, construction, miscellaneous)	14,000
	<hr/>
	\$37,355

Basic level of investigation of flask burn.

Total Request - \$140,000 (Extension)  
Orig. Grant - 139,977  
Total - 279,977

(4) Sloan-Kettering Institute - Memorial Hospital - Dr. Rulon Rawson - "Study of Thyroid Cancer with Radio-active Iodine - \$40,000

Salaries	\$31,280
Supplies (including purchase and maintenance of animals, miscellaneous)	8,720

Total Request \$40,000

Flask burn is our definite interest.

Now supplemented to \$56,666

Read Wood letter. Promise to get into field where we have only indirect interest & not essential for the development of radiant energy.

Approved thru 6/30/50.

20 curie source in field - from 3000 m-tolerance.

~~CONFIDENTIAL~~

Economic crop survey - N.Y. Agr. Dept.  
Jim White

Call attention of other labs  
Effectiveness of 4 regional  
centers

3. Brookhaven National Laboratory

now 60-70  
min people incl yr.  
35 for summer

a. Presentation of Program

- Dr. Harworth
- Dr. Donald D. Van Slyke
- Dr. Lee E. Farr
- Dr. Leslie Nims read, summary
- Mr. Frederick P. Cowan not policy, are writing

Choose subjects - method of presentation, etc.  
Comprehensive report in fall  
to what has gone on in all training  
whole general picture. App etc.  
incl. what has happened to  
these courses, incl.  
recommendations as to costs,  
Budget for training  
allotments,  
+ working  
material up into a  
handbook. Syllabi  
from  
O.R.

b. Medical Research at Brookhaven  
(Material in Folder)

4. Training Program - Dr. John Z. Bowers

- a. Suggestions are requested as to the advisability of initiating programs elsewhere.
- b. General Discussion of various levels of training and coordination of activities.

Call on Dr.  
Coburn 1st  
not too much

Should be in a  
number of labs rather  
than OR.  
need for working  
out program for  
Rochester.

Material in folder for reference

- 1. Prospectus of radioisotope training program at Oak Ridge Institute of Nuclear Studies.
- 2. Letter from Dr. Ralph T. Overman regarding training program for Summer, 1949. { See Taylor's training report. 1 graduate each year for 3 yrs of training, as Cape fellowships at Haverford. 4 colleges! }
- 3. Training Program - Radiological Physics

Importance of  
being alert to  
oncoming events

5. Fellowship Program (Material in folder for reference - List of Fellowships awarded in Medical and Biological Sciences)

- a. Suggestions requested on how more qualified applicants may be obtained. Work on selection
- b. Discussion desired on advisability of offering one-year post-doctoral medical Fellowships.

3 ailla - need  
for biologists & HP  
to cooperate, need  
of tissue doses  
appln to all  
installations

6. Radiation Cataracts

Material in folder for reference:

- a. Letter from Dr. Bowers to Dr. Weed
- b. Letters from Dr. Weed re allocation of \$300,000 to National Research Council for cataract survey. \$15,000 has been set aside for transfer to National Research Council as an initial step for this survey.

High cost of  
reactor affects  
biophys  
Securities

Importance of integration  
- other programs, is in  
Brookhaven, Argonne, etc.  
- 8 -  
Bring in eye people particularly  
of special projects  
for this. Bring to attention of groups in AEC labs.

Taylor's report - refer to  
training groups. Well expressed.

~~CONFIDENTIAL~~



6. Radiation Cataracts (Cont'd.)

It is recommended that the Division of Medical Sciences be requested to continue the established panel as an advisory group and that ~~funds be allocated for the medical survey as requested~~. It is further recommended that the Radiation Cataract Committee advise the Division of Biology and Medicine as to indicated research projects for coordination with the existing research program of that Division and administration by the Division of Biology and Medicine.

7. Budget- Dr. John Z. Bowers

8. Future Tests - Colonel J. P. Cooney

9. Report by Prof. Harry L. Bowman

10. Other Business

Next meeting of the Advisory Committee for Biology and Medicine

Wash - June 11

*funds* *indicated*  
sufficiently be allocated for physical examinations on  
the radiation cataract cases.

*quote*