

## PRIVACY ACT MATERIAL REMOVED

May 31, 1949

TO: Commissioners and Division Heads

FROM: Carroll L. Wilson, General Manager

SUBJECT: Meeting of the Advisory Committee for Biology and Medicine

The sixteenth meeting of the Advisory Committee for Biology and Medicine will be held on June 11, 1949, at the AEC Building, Washington, D. C.

Invitation is cordially extended to attend this meeting.

Agenda - 9:00 A.M.

1. Consideration of the Minutes of the meeting at the Brookhaven National Laboratory, Upton, L. I., New York, on April 8 and 9, 1949.
2. Report on support of research.
  - a. Proposals approved since April 8-9 meeting:

Medicine

- (1) Harvard University - Dr. A. B. Hastings, et al -  
 "Research with Isotopes" - \$271,124 (Trsf'd. from ONR)

Salaries  
 Recovery of Salaries  
 Overhead

\$225,048  
 10,712

Total

US DOE ARCHIVES	
326 US ATOMIC ENERGY COMMISSION	
RG	
Collection	<i>Division of Biology Medicine</i>
Box	<i>1</i>
Folder	<i>6</i>

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- (2) Cedars of Lebanon Hospital - Dr. Paul E. Rekers - "Relationship of Flavanoid Structures to Radiation Protection" - \$17,500

Salaries	\$13,000
Equipment & Supplies	4,500

Total

- (3) University of Rochester - Dr. Herman Pearse - "Research on Thermal Effects of the Atomic Bomb" - \$87,250

Salaries	\$42,700
Equipment and Supplies	27,410
Travel	1,000
Overhead	

Total

- (4) National Research Council - "Cataract Investigations" - \$15,000

Salaries	\$ 7,266
Travel	5,130
Expenses	1,119
Overhead	

Total

- (5) University of Chicago - Dr. C. Philip Miller - "The Bacteriological Aspects of Radiation Sickness" - \$28,000

Salaries	\$16,050
Equipment and Supplies	7,250
Travel	250
Overhead	

Total

- (6) Henry Ford Hospital - Dr. F. W. Hartman - "Chemical Sterilization of Blood and Plasma with Nitrogen Mustards" - \$12,900

- (7) Harvard University - Drs. R. F. Sogah & J. H. Shaw - "Further Studies on the Metabolism of the Teeth with Special Regard to Radioisotope Studies on the Enamel" - \$12,250 (Transferred from ONR) (Budget breakdown on Page 3)

(7) Harvard University (cont'd.)

Salaries	\$6,344
Equipment and Supplies	4,300
Overhead	[REDACTED]
Total	[REDACTED]

(8) University of Colorado - Dr. I. Goodman - "Metabolism of Nuclcic Acid Derivatives" - \$28,530 (Trsf. from ONR)

Salaries	\$13,800
Equipment and Supplies	7,710
Travel	1,500
Overhead	[REDACTED]
Total	[REDACTED]

(9) Washington University - Dr. D. Lipkin - "Study of Nuclear Acids, Nucleoprotein and Nucleotides and Related Organic Phosphorus Compounds" - \$18,000

*overhead - discussion*

Salaries	\$9,450
Equipment and Supplies	3,825
Overhead	[REDACTED]
Total	\$ [REDACTED]

(10) Massachusetts General Hospital - Dr. J. H. Means - "Research on Radiation Effects on Thyroid Function" - \$23,000

Salaries	\$9,360.
Equipment and Supplies	11,360
Travel	800
Overhead	[REDACTED]
Total	[REDACTED]

(11) University of Minnesota - Dr. S. W. Hunter - Investigations on the Use of Zirconium as a Radioopaque Media" - \$6,050

Salaries	\$2,650
Equipment and Supplies	3,400
	[REDACTED]

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- (12) University of Washington School of Medicine - Dr. C. A. Finch - "Isotope Study in Iron Metabolism" - \$13,100

Salaries	\$6,500
Equipment and Supplies	3,500
Travel	500
Overhead	

Salaries 5800  
 Supplies +  
 Equipment 9505  
 Overhead 2295  
 \$17,600

- (13) University of Rochester - Dr. W. F. Bale - \$15,000<sup>\*</sup> 17,600  
 "Biological Studies" *effects of external radiation (X-Ray + Gamma Rays)*  
 (~~Breakdown not available~~)

Biology

*Pearson*

- (1) Michigan Agricultural Experimental Station - Dr. L. F. Wolternik and Dr. E. P. Reineke - "Hormonal and Nutritional Factors which Alter the Effective Half-lives and Differential Absorption Ratios of Calcium, Manganese and Cobalt in the Animal Body" - \$18,899

Salaries	\$9,500
Equipment and Supplies	8,899
Travel	500
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	\$18,899

*Higinbotham*

- (2) Washington State College - Drs. Biddulph & Higinbotham - "The Absorption, Translocation and Disposition of Various Elements in Plants, and the Rate of Movement of Ions into and through Plant Parenchyma Tissue as Affected by Rate of Water Uptake" - \$15,621

Salaries	\$13,276
Equipment and Supplies	2,345
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	\$15,621

- (3) Battelle Memorial Institute- Dr. K. S. Chester - "Use of Radioactive Indicators in the Study of the Mode of Action of Fungicides" - \$23,500 (Breakdown on Page 5)

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(3) Battelle Memorial Institutuc (cont'd) - \$23,500

*Jensen*

Salaries	\$12,800
Equipment and Supplies	2,472
Travel	100
Overhead	
Total	

(4) Massachusetts Institute of Technology - Dr. A. A. Thomas - "Efficiency of Present Water Treatment Methods in Removing Radioactive Substances from Water" - \$50,000

*Jensen*

Salaries	\$21,750
Equipment and Supplies	18,550
Travel	1,000
Overhead	
Total	

(5) Duke University - Dr. E. M. Wilbur - "The Isolation and Membrane Permeability of the Liver Cell Nucleus, and Shell Formation in Mollusks and Barnacles as Studied by Radioisotopes" - \$7,924 (Trsf'd. from ONR)

*Jensen*

Salaries	\$4,800
Equipment and Supplies	1,300
Overhead	
Total	

(6) University of Illinois - Drs. B. C. Johnson and H. E. Carter - "The Metabolism of Vitamins and Their Interrelationships with Amino Acids" - \$4,800

*Carson*

Salaries	\$3,000
Equipment and Supplies	1,800
Total	\$4,800

(7) University of Minnesota - Dr. E. C. Stakman - "The Effects of Radioactive Substances on Plant Pathogens and Other Microorganisms" - \$39,900

*Jensen*

Salaries	\$23,500
Equipment and Supplies	5,000
Overhead	
Total	

*Remainder of [unclear]*

(8) University of Chicago - Dr. Roy E. Zirkle - "Purchase of Electrostatic Generator for Use on 'Micro beam' Effects Study Being Conducted Through ONR" - \$103,500

b. Proposals extended since April 8-9 meeting:

(1) University of Colorado - Dr. Theodore Puck - "Study of Bacteriophage and Radiation Mechanisms" - (Trsf. from ONR) - \$39,000; Original grant \$46,264 - Total - \$85,264

*Zirkle*

Salaries	\$11,600
Equipment and Supplies	21,250
Travel	2,000
Overhead	[REDACTED]

Total Extended [REDACTED]

Salaries	6400
Supplies	2000
Equipment	3175
Travel	250
Overhead	1175
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	\$13000

(2) Baylor University - Dr. J. H. Gast - "Chemistry and Metabolism of Some Sulfur Oxides" - \$13,000; Original grant \$15,200 - Total - \$28,200 (Trsf. from ONR)

*Zirkle*

~~(Breakdown of extension not available)~~

Salaries	9000
Supplies	4500
Equipment	1200
Travel	500
Overhead	4500
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	\$19700

(3) Rice Institute - Drs. A. C. Chandler and R. V. Talmadge - "The Nutrition of Tapeworms, and the Physiological Action of Relaxin in Mammalian Reproduction" - (Trsf. from ONR) - \$19,700; Original grant \$35,850 - Total - \$55,550

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~~(Breakdown of extension not available)~~

(4) University of Colorado - Dr. J. R. Lacher - "The Infra-red Absorption Spectra of Nucleic Acids, Amino Acids and Related Compounds" - (Trsf. from ONR) - \$5,120; Original grant - \$28,935 - Total - \$34,055

Salaries	\$2,100
Equipment and Supplies	1,980
Travel	200
Overhead	[REDACTED]

Total Extended [REDACTED]

(5) University of Oregon - Dr. P. L. Risley - "Localization of Radioactive Isotopes in Germ Cells and Reproductive Tissues during Quiescence and Activation" - (Trsf. from ONR) - \$14,000; Original grant - \$18,842 - Total - \$32,842 (Breakdown of extension on Page 7)

(5) University of Oregon (cont'd.)

Salaries	\$8,400
Equipment and Supplies	2,600
Travel	900
Overhead	[REDACTED]

Total extended [REDACTED]

(6) Reed College - Drs. A. F. Scott, Hungate and Livermore - "Postdoctoral Training in Basic Sciences; Application of Radioactive Tracer Technique in the Field of Cellular Metabolism; Biological Synthesis of Peptibond" - (Trsf'd. from ONR) - \$33,670; Original grant - \$32,465 - Total - \$66,135

Salaries	\$9,900
Equipment and Supplies	3,800
Travel	2,100
Training	<del>15,000</del> 70,000
Overhead	[REDACTED]

c. Proposals declined since April 8-9 meeting:

- (1) University of Pennsylvania - Dr. E. R. Long - "Use of Trace Elements in the Study of Metabolism of M. Tuberculosis"
- (2) York Uni-Bellevue Medical Center - Dr. Anthony A. Albanese - "Study of the Long Term Radiation Effects of Internally Administered Beta Emitters"
- (3) Chicago Medical School - Dr. Richard G. Roberts - "Storage of Hemin and Other Metalloporphyrins in Normal and Neoplastic Tissues"
- (4) Biological Laboratory, Inc. - Dr. Norman Molomut - "The Effect of Anti-Splenic Tissue Serum in Radiation Damage"
- (5) Russell Sage College - Dr. Gertrude Heidenthal - "Radiation Work on the Parasitic Wasp, Habrobracon"
- (6) Battelle Memorial Institute - Dr. K. Starr Chester - "Monitoring Radiation with Living Plants and Microorganisms as Detectors"

- (7) Amherst College - Dr. H. E. Plough - "Biochemistry and Nutrition of Unicellular Organisms and the Requirement of Varieties or Mutants Induced by Radiation"
- (8) Brown University - Dr. H. B. Chase - "Radiation and Tracer Studies in Biology"
- (9) Northwestern University - Dr. I. M. Klotz - "Physio-chemical Study of the Mode of Action of Antibacterial Agents"
- (10) Haskins Laboratories, Inc. - Dr. S. H. Hutner - "Toxicity and Antibiotic Betatron of Compounds Forming Complexes with Metals and Effect of Trace elements on Bacterial Metabolism"
- (11) University of Pittsburgh - Dr. P. Gray - "Permeability of Natural Membrane to Gases and Ions"
- (12) Alabama Polytechnic Institute - Dr. R. W. Engol - "Nutritional Edema and Anemia as Influenced by Choline"
- (13) Oberlin College - Dr. G. T. Scott - "Binding Properties of Intra-cellular Constituents"

*Dr. Warren* →

3. Support of Basic Research
4. Foreign Distribution of Radioactive Isotopes
5. Report by Dr. Bowers

Medical and biological programs at Los Alamos and Colorado Plateau

LUNCH

6. Cataract Survey
  - (a) Letter from Dr. Lewis Weed dated April 26, 1949 accepting cataract survey program as proposed by Division of Biology and Medicine
  - (b) Copy of contract entered into between AEC and NRC
7. Sixth Semiannual Report to Congress

8. Status of Industrial Medicine - Dr. James H. Sterner, Eastman Kodak Company
9. Hearings
  - (a) Fellowship Program  
Reconsideration of Foreign Scientists at Training Courses at Oak Ridge
  - (b) Appropriations
  - (c) Other Business  
Interim Report to Congress re Biology and Medicine - Information only
10. Civil Defense
  - (a) Letter to National Security Resources Board (Mr. Gill), with offer of facilities of Atomic Energy Commission that are available. (Information only)
  - (b) Other developments in Civil Defense including Weapons Effect Handbook.
11. Biological and Medical Programs - Dr. George V. LeRoy
12. Appointments
  - (a) Dr. Charles L. Dunham of the University of Chicago has accepted an appointment as Assistant Chief of the Medical Branch of the Division of Biology and Medicine.
  - (b) Dr. George A. Hardie of Johns Hopkins School of Medicine has accepted an appointment as a Physician, Medical Branch of the Division of Biology and Medicine
13. Other Business
  - (a) Suggested shift of Toxicity Laboratory and Panel Contract
  - (b) Possibility of Dr. Harold Copp serving as a member of the Subcommittee for Human Allocation
  - (c) Study of letter from Dr. Stone re radiation experiments
14. Next Meeting - September 10, 1949 - AEC, Washington, D. C.