

# 1954

## SCIENTIFIC PERSONNEL

Name	Department	Institution
Fredrik Berglund	Physiology	Cincinnati-Stockholm
Robert W. Berliner	Medicine	National Heart Institute
Gerrit Bevelander	Histology	New York
Albert W. Biggs	Pathology	Bowman Gray
Jerome B. Block	Student	New York
Saul Boyarsky	Urology	Duke
Joseph G. Brown	Student	Missouri
Elmer D. Bueker	Anatomy	Missouri
J. Wendell Burger	Biology	Trinity
Joseph Buxer	Student	New York
Beverly Cox	Zoology	Oklahoma
William L. Doyle	Anatomy	Chicago
Alfred P. Fishman	Medicine	Columbia
Roy P. Forster	Zoology	Dartmouth
Hubert & Mable Frings	Zoology	Pennsylvania State
Harry W. Fritts	Medicine	Columbia
B. Vincent Hall	Zoology	Illinois
H. O. Heinemann	Physiology	New York
O. C. Jaffee	Anatomy	Arkansas
Eunice Johnson	Pathology	Alabama
David A. Karnofsky	Medicine	Sloan-Kettering Institute
Albert S. Keston	Biochemistry	New York
Herbert G. Langford	Medicine	Medical College of Virginia
Sidlee Leeper	Student	Harvard
Warren H. Lewis	Anatomy	Wistar Institute
E. Sue Lumb	Zoology	Vassar
Thomas H. Maren	Pharmacology	American Cyanamid Co.
E. K. Marshall, Jr.	Pharmacology	Johns Hopkins
B. W. McCashland	Physiology	Nebraska
Wallace W. McCrory	Pediatrics	Pennsylvania
J. D. Myers	Medicine	Duke
Helen E. Osburg	Histology	New York
A. G. E. Pearse	Pathology	Alabama-London
Lorraine Peissner	Zoology	Oklahoma
Sarah Plimpton	Student	Brearely School
Raymond Rappaport	Biology	Union
Johannes Rhodin	Anatomy	Karolinska Institute, Stockholm
Alvin F. Rieck	Physiology	Marquette
Martin I. Rubin	Chemistry	Georgetown
John W. Saunders, Jr.	Biology	Marquette
Lilyan Saunders	Biology	Mount Mary
Wilbur H. Sawyer	Physiology	New York
John J. Sayen	Medicine	Pennsylvania
Richard M. Schisgall	Student	New York
Warner F. Sheldon	Pathology	Pennsylvania
Homer W. Smith	Physiology	New York
Robert L. Soley	Student	Yale
Hans Ussing	Physiology	Copenhagen
Daniel L. Wachtel	Student	Union
Philip R. White		Jackson Memorial Lab.
Charles E. Wilde, Jr.	Embryology	Pennsylvania
Hisato Yoshimura	Physiology	Kyoto, Japan-New York
Irving Zeidman	Pathology	Pennsylvania
Charles G. Zubrod	Medicine	St. Louis

## STAFF

Caretaker: Nelson Mitchell, Salisbury Cove

Collector: Robert B. Kohn, Kenyon College

Secretaries:

(for Director) Ann L. Merz, Bryn Mawr College

(for Dr. Smith) Judith Hardy, Wellesley College

Co-op Manager: Mary Jean Chapman, University of Maine

## SEMINAR PROGRAM

### Evening Seminars

- July 6 *Homer W. Smith*, New York University  
"On a Proper Knowledge of Man".
- July 13 *Hubert Frings*, Pennsylvania State University  
"The Pied Piper of Salisbury Cove: Sound Control for  
Pests - From Flies to Elephants".
- July 20 *Irving Zeidman*, University of Pennsylvania  
"Studies on the Mechanism of Invasiveness and Metastasis of  
Neoplasms".
- July 27 *Charles C. G. Chaplin*, Academy of Natural Sciences, Phila.  
"Sea Gardens of the Bahamas," Underwater Kodachrome  
Movies.
- August 3 *William L. Doyle*, University of Chicago  
"Location of Peptidases in Lymphatic Tissue."
- August 9 *A. G. E. Pearse*, University of London, University of Alabama  
"Localization of Cholinesterases and Aliesterases."
- August 16 *Hans Ussing*, University of Copenhagen  
"Hormonal Control of Active Ion Transport."

### Informal Seminars

- July 9 *Charles E. Wilde, Jr.*, University of Pennsylvania  
"Metabolites Causally Related to Cell Differentiation".  
*E. Sue Lumb*, Vassar College  
"The Functional Differentiation of Embryonic Chicken  
Kidney".
- July 16 *Roy P. Forster*, Dartmouth College  
"Active Cellular Transport Mechanisms."

- July 23 *Elmer D. Bueker*, University of Missouri  
 "Growth of Tumors in the Embryonic Chicken".  
*David A. Karnofsky*, Sloan-Kettering Institute  
 "Effects of Organic Compounds on the Chick".
- July 30 *Martin I. Rubin*, Georgetown University  
 "Exogenous Control of Mineral Movement".  
*Benjamin F. Miller*, Peter Bent Brigham Hospital  
 "Kidney Transplantation".
- August 6 *Gerrit Bevelander*, New York University  
 "Calcification in Molluscs."  
*Alvin F. Rieck*, Marquette University  
 "Morphogenesis in Amphibian Forelimb Buds".
- August 13 *Albert S. Keston*, New York University  
 "The Occurrence of Mutarotase in Animals, its Relation to  
 Sugar Transport and Reabsorption." Discussion led by  
 Drs. Carl and Gerti Cori, Washington University.
- August 20 *John W. Saunders, Jr.*, Marquette University  
 "The Induction of Regional Specificity in Epidermal  
 Derivatives of the Fowl."
- August 27 *Leonard D. Hamilton*, Sloan-Kettering Institute  
 "Structure of Nucleic Acid."  
*Johannes Rhodin*, Karolinska Institute, Stockholm  
 "Electronmicroscopy of the Nucleus".  
*A. G. E. Pearse*, University of London and University of  
 Alabama "Histochemistry of the Nucleus".

### Special Symposium

#### "Protoplasmic Structure and Cellular Transport Mechanisms."

- August 23 *Hans Ussing*, University of Copenhagen  
 "Active Sodium Transport".  
*Ernest C. Huf*, Medical College of Virginia  
 "The Significance of Potassium Ion in Active Sodium Trans-  
 port."
- August 24 *Johannes Rhodin*, Karolinska Institute, Stockholm  
 "Electronmicroscopy of the Proximal Tubule in the Mouse".  
*C. Barber Mueller*, Washington University  
 "Electronmicroscopy of the Renal Tubule in the Dog".  
*Rudolph T. Kempton*, Vassar College  
 "TV-Microscopic Movies of Living Dogfish Tubules".

- August 25 *B. Vincent Hall*, University of Illinois  
 "The Glomerulus in the Rat."  
*Don F. Fawcett*, Harvard University  
 "The Amphibian Nephron".  
*J. F. Rinehart*, University of California  
 "Sinusoid and Vesicular Structures in the Pituitary and  
 Kidney".

### Special Meetings and Seminars

- July 7 Informal meeting of laboratory personnel to discuss the  
 summer work.
- July 17 *Roy P. Forster*, Dartmouth College  
 "Comparative Physiology of the Kidney".
- July 21 *Roy P. Forster*, Dartmouth College  
 "The Geography of the Sea".
- July 31 *J. Wendell Burger*, Trinity College  
 "Marine Biology".
- August 7 *Alfred P. Fishman*, Columbia University  
 "Homeostasis."
- August 14 *Homer W. Smith*, New York University  
 "The Hydrogen Ion."
- August 21 *Robert W. Berliner*, National Heart Institute  
 "Regulation of Acid-Base Balance by the Kidney."

### Calcification in Molluscs:

#### Repair and Regeneration Studies in *Mytilus edulis*\*, \*\*

Gerrit Bevelander  
 New York University

A study of the process of repair and regeneration of the shell of *Mytilus edulis* was carried out by utilizing a method whereby a glass cover slip was introduced between the mantle and the shell of the animal. Following this, the animals were placed in sea water and the cover slips were withdrawn and examined at various intervals.

After the cover slips were exposed to the mantle for a few hours, the predominant feature observed was the presence of numerous amebocytes. Following Giemsa staining, a delicate fibrillar ground substance was also

\* This study was aided (in part) by grants from the Office of Naval Research and the United States Public Health Service.

\*\* With the technical assistance of Miss Helen Osburg.