

1941.

COURSE IN INVERTEBRATE ZOOLOGY

1941 was the last year of the course in Invertebrate Zoology, begun in 1938. In the four years of its existence, 45 different students took this course. These students were privileged to study under Professor Ulric Dahlgren, who was in charge of the course during its four years, and who had devoted a life-time of study to the natural history of the Gulf of Maine. The course placed heavy emphasis on field experience; students not only had an opportunity to do the usual shore and shallow water collecting, but at least once a week went on dredging trips into deeper waters, occasionally into 100 fathoms.

STUDENTS IN COURSE

Mr. William Amos, Rutgers University.
Miss Josephine Bierman, George Washington University.
Miss Jane Ten Broeck, Swarthmore College.
Mr. Dwight C. Dawson, DePauw University.
Miss Nancy F. Ells, Sarah Lawrence College.
Mr. Stephen C. Hoyt, New Hope, Pa.
Miss Martha Kent, Bryn Mawr College.
Mr. John H. Prodel, Drew University.
Mr. Harold Sampson, University of Utah.

STAFF

Dr. Roy Forster, Dartmouth College, *Director*.
Prof. Ulric Dahlgren, Princeton University, *In charge of course*.
Dr. J. Wendell Burger, Trinity College, *Instructor*.
Dr. James A. Miller, University of Michigan, *Instructor*.
Mr. J. B. Knight, *Collector*.
Mr. Hadley Parrot, *Assistant Collector*.
Mr. Walter Russell, *Caretaker*.

PUBLIC SEMINARS

July 15—Dr. H. W. Smith, New York University College of Medicine
"The role of water in vertebrate evolution."
July 22—Dr. E. K. Marshall, Jr., The Johns Hopkins University
School of Medicine
"The chemotherapy of bacillary dysentery."

July 29—Dr. M. W. S. Schramm, The International Cancer Research Foundation

“Recent advances in cancer research.”

August 15—Dr. Robert W. Hegner, The Johns Hopkins University School of Public Health

“Recent discoveries in the cycles of malarial parasites.”

August 12—Dr. Dwight E. Minnich, University of Minnesota

“Light reactions of lower animals.”

August 19—Dr. William H. Cole, Rutgers University

“Perfusion fluids for invertebrate hearts.”

August 26—Dr. R. J. Bing, New York University College of Medicine

“The possible role of pressor amines in renal hypertension.”

Dr. Edwin P. Hiatt, New York University

“Renal functions in the seal.”

SENIOR INVESTIGATORS

Mrs. L. F. Allabach, Portland, Me.

Conchology of Mt. Desert Island region.

Dr. R. J. Bing, New York University.

vide S. E. Bradley

Dr. Stanley E. Bradley, New York University.

Bradley, S. E. and R. J. Bing, 1942. Renal function in the Harbor Seal (*Phoca vitulina* L.) during asphyxial ischemia and pyrogenic hyperemia. J. Cell. and Comp. Physiol., 19: 229-237

Dr. J. Wendell Burger, Trinity College.

Burger, J. Wendell, 1941. Some experiments on the effects of hypophysectomy and pituitary implantations on the male, *Fundulus heteroclitus*. Biol. Bull. 80: 31-36.

1941. Experimental modification of the plumage cycle of the male European starling (*Sturnus vulgaris*.) Bird-Banding, 12:27-29

1942. Some effects of androgens on the adult male. *Fundulus*. Biol. Bull., 82:233-242.

1947. On the relation of day-length to the phases of testicular involution and inactivity of the spermatogenetic cycle of the starling. J. Exp. Zool., 105:259-268.

Dr. William H. Cole, Rutgers University.

Cole, William H. 1941. The effects of daily bleeding of lobsters. Anat. Rec., 81 (suppl.):128.

1941-42. A perfusing solution for the lobster (*Homarus*) heart and the effect of its constituent ions on the heart. J. Gen. Physiol. 25:1-6.

Dr. Roy P. Forster, Dartmouth College.

Forster, R. P. and Pari Zia-Walrath 1941. The absence of active secretion as a factor in the elimination of inulin and other sub-

- stances by the green gland of the lobster. *Anat. Rec.* 81:128.
- Forster, R. P. 1942. The nature of the glucose reabsorptive process in the frog renal tubule. Evidence for the intermittency of glomerular function in the intact animal. *J. Cell. and Comp. Physiol.* 20:55.
- Dr. Edwn P. Hiatt, New York University.
- Hiatt, E. P. and R. B. Hiatt 1942. The effect of food on the glomerular filtration rate and renal blood flow in the Harbor Seal (*Phoca vitulina L.*) *J. Cell. and Comp. Physiol.* 19: 221-227.
- Dr. Ira B. Hansen, George Washington University.
- The effect of hypophysectomy on female turtles.
- Dr. James A. Miller, University of Michigan.
- Miller, J. A., Jr., 1942. Some effects of covering the perisarc upon tubularian regeneration, *Biol. Bull.* 83:416.
1946. Differential reduction of Janus Green in the early development of *Tubularia crocea*. *Anat. Rec.* 94:3:17.
- Dr. Dwight E. Minnich, University of Minnesota.
- Minnich, D. E. 1942. The responses to light of various wave lengths by the periwinkle, *Littorina litorea L.* *Anat. Rec.* 84: 83-84.
- Dr. J. R. Schramm, University of Pennsylvania.
- Schramm, J. R. 1941. An interesting variant of white spruce Morris Arboretum Bull., 3:67-69.
- Dr. M. W. S. Schramm, The International Cancer Research Foundation Writing.
- Dr. Homer W. Smith, New York University.
- vide* Bing, Bradley, Hiatt.

SCIENTIFIC ASSISTANTS

- Miss Valentina V. Azaroff, The International Cancer Research Foundation.
- Mr. William D. Blake, Harvard University.
- Miss Frances Boring, The International Cancer Research Foundation.
- Miss Betty Crawford, New York University.
- Mr. R. B. Hiatt, University of Cincinnati.
- Miss Ingeborg Hinck, New York University.
- Mr. William L. Nastuck, Rutgers University.
- Mr. Andrew Niles, Taft School.
- Mr. Joseph Parkhurst, Rahway, N. J.
- Miss Joan Pott, New York University.
- Mr. John H. Ray, 3rd, New York University.
- Miss Martha Robinson, Smith College.
- Mr. C. F. Wicker, Princeton University.
- Miss Paria Zia-Walrath, Northwestern University.