

lectures, 2 laboratory periods)—T. D. Mulhern, Associate in Mosquito Control.

MEMBER INTEREST.—It was indeed pleasing to be allowed the privilege of serving as one of the sponsors signing the membership application of Mr. Harold Hannaway, whose interesting letter relating to his collection of mosquitoes in Massachusetts follows. Though he is not professionally engaged in mosquito work, Mr. Hannaway evidently has a very great interest in our common enemy. We welcome him to membership, and hope he may be able to attend future meetings of the Association.

T.D.M.

"April 22, 1945.
"Boston, Mass.

"MR. THOMAS MULIERN, *Secretary*.

"Dear Sir:

"I have filled out the membership blank and hope it meets the approval of the committee.

"**MOSQUITO NEWS** is just what I was looking for, and in reading the December issue I found out about the new book by Dr. Robert Matheson which I have since bought.

"A number of towns around Boston are doing mosquito control work this summer. As I am working in a defense plant I was unable to work with this group, but I have offered my service gratis in determining the specimens they may collect. The information gained by these towns' collections will help me in my general knowledge of the mosquitoes of Massachusetts.

"On April 19th I collected one anopheline larva, 2nd instar, in Belmont. This is the earliest date for any anopheline larva in my seven years of collecting and to check its occurrence I called Mr. R. W. Wales, entomologist for the State Reclamation Board of Massachusetts, to learn from him that he has found anopheline larvae in April, but it is more generally taken in late July, August, and September. Our early warm spring days must have hatched it out.

"This unusual weather has changed the aedes cycle in early spring woodland pools. In pools for which I have records for the past four years, where *Aedes canadensis* was the early species, I have this season found instead *Aedes cinereus* and *Aedes excrucians*. The last species I had listed as occurring in grassy pools in meadows, but, lo and behold, it appears in leaf filled woodland pools.

"I think it is the unknown and strange places, plus the fact that you never can tell what larva may be in your dipper, that makes mosquito hunting a fascinating science.

"I received Dr. Headlee's new book, 'The Mosquitoes of New Jersey and Their Control,' yesterday.

"Dr. Thomas Headlee's observation on the *Mansonia perturbans* larva is very valuable to me. I have not as yet found this specimen, though I have pulled and dug up many aquatic plants. Yet

I have been driven out of certain sections of open meadows by the adults.

"I am looking forward to the next issue of **MOSQUITO NEWS**.

"Sincerely,

(Signed) "HAROLD HANNAWAY."

NEW G.I. HAND DUSTER. A G.I. hand duster which sprays ten pounds of Paris Green over mosquito-infested areas in 15 minutes wasn't good enough for Technical Sergeant Claude R. Strickland, entomology technician with the 29th Malaria Control Detachment near Dakar, Africa.

So he got to work and developed a mechanical duster which, by the use of a fan, can put out 150 pounds of Paris Green in the same time—fifteen times as much as the hand duster.

The sergeant turned his design over to the Army and was awarded the Legion of Merit "for exceptionally meritorious conduct in performance of outstanding service."

Sergeant Strickland told his story while at the Fort McPherson Separation Center awaiting discharge because of his age—42. He has been in the Army two and a half years; two years of that time were spent overseas in eastern, western and northern sections of Africa. The sergeant perfected his mechanical duster while near Dakar.

Before he entered service, Sergeant Strickland was sanitary technician for Pinella County, Fla. Upon return to civilian life, he plans to manufacture insect control appliances of his own design.

The sergeant's home is at 1703 40th St., St. Petersburg.

From Public Relations Office,
Fort McPherson, Georgia

T.D.M.

THE THIRTY-SECOND ANNUAL MEETING OF THE NEW JERSEY MOSQUITO EXTERMINATION ASSOCIATION.

The 1945 Annual Meeting of the New Jersey Mosquito Extermination Association was held at the Hotel Claridge, Atlantic City, N. J., on March 28, 29 and 30, 1945. The program included many interesting papers, with great emphasis being placed upon the new problems in the control of mosquito-borne diseases which are facing mosquito workers in this country, due to the increased likelihood of the introduction of these diseases as men return from tropic war areas where they are prevalent. Papers relating to DDT were likewise heard with a great deal of interest, and promoted discussion of this much heralded insecticide. The demand for the four papers particularly referring to this subject was so great that they were pre-printed, in an edition of 500 copies, the supply of which was exhausted in less than two months. The complete papers will be printed, with the discussion, in the "Proceedings" of the meeting, to be available during the summer of 1945.

The program was as follows:

First Session

Wednesday, March 28 - 2:00 to 5:00 P.M.

OPENING REMARKS OF THE PRESIDENT. Mr. William H. Dillistin, President, New Jersey Mosquito Extermination Association, Federal Reserve Bank, New York, N. Y.

A REVIEW OF MOSQUITO WORK IN A WORLD AT WAR IN 1944. By Dr. F. C. Bishopp and Mr. H. H. Stage, Bur. of Entomology, U.S.D.A., Washington, D. C.

ENTOMOLOGICAL EVALUATIONS OF CONTROL WORK IN THE MALARIA CONTROL IN WAR AREAS PROGRAM. By G. H. Bradley, Sr., Entomologist (R), U. S. Public Health Service, Atlanta, Georgia.

THE DISEASE MALARIA, FROM THE POINT OF VIEW OF THE PRACTICING PHYSICIAN. By Dr. Howard B. Shookhoff, Epidemiologist in Tropical Diseases, New York City Department of Health, New York, N. Y.

PROGRESS IN THE DEVELOPMENT OF DDT AS A MOSQUITO LARVICIDE. By Dr. J. M. Ginsburg, Biochemist in Entomology, New Jersey Agricultural Experiment Station, New Brunswick, N. J.

EXPERIMENTS USING DDT AND OTHER MATERIALS FOR THE CONTROL OF RESTING ADULTS OF *Anopheles quadrimaculatus* MOSQUITOES. By Dr. E. J. Hansens, Research Associate in Agriculture, New Jersey Agricultural Experiment Station, New Brunswick, N. J.

LABORATORY EVALUATION OF CHEMICALS FOR RENDERING FABRICS REPELLENT TO MOSQUITOES. By Dr. Philip Granet and Mr. Harry Haynes, Rutgers University, New Brunswick, N. J.

ANTI-MOSQUITO WORK IN AUSTRALIA AND NEW GUINEA (KODACHROME SLIDES). By Dr. F. C. Bishopp, Bureau of Entomology, U.S.D.A., Washington, D. C.

Second Session

Wednesday, March 28 - 8:00 to 10:00 P.M.

THE MOSQUITO WORK IN PASSAIC COUNTY, N. J. By Captain William Dunny, Commissioner, Passaic County Mosquito Extermination Commission, Paterson, N. J.

MOSQUITO WORK ON A WARTIME BASIS: SPECIAL PROBLEMS AND THE MANNER IN WHICH THEY ARE BEING MET, IN:

(a) CALIFORNIA: By Harold F. Gray, Engineer, Alameda County Mosquito Abatement District, Oakland, Calif.

(b) VIRGINIA: Mr. Roland E. Dorer, Assistant State Director Malaria Control, Norfolk, Va.

(c) THE CITY OF NORFOLK, VA.: Mr. Perry W. Ruth, Chief of Bureau of Mosquito Control, City of Norfolk, Va.

(d) PENNSYLVANIA: Major Russell W. Gies, USPHS, Philadelphia Department of Health, Philadelphia, Pa.

(e) THE CITY OF PHILADELPHIA, PA.: Dr. Rufus S. Reeves, Director, Department of Public Health, Philadelphia, Pa.

(f) NASSAU COUNTY, LONG ISLAND: Mr. Ray H. Sammis, Superintendent, Nassau County Mosquito Extermination Commission, Rockville Center, N. Y.

(g) MASSACHUSETTS: Mr. Edward Wright, Chairman, State Reclamation Board, Boston, Mass.

THE REARING OF *Anopheles quadrimaculatus* MOSQUITOES FOR LABORATORY USE. By Dr. Ralph E. Heal and Mrs. Margaret Pergrin, Merck & Co., Rahway, N. J.

MALARIA IN NEW JERSEY IN 1944. By Mr. William H. MacDonald, Chief, Bureau of Local Health Administration, New Jersey State Department of Health, Trenton, N. J.

MOTION PICTURES, SLIDES, ETC.

Third Session

Thursday, March 29 - 9:30 A.M. to 12:00 M.

THE ARMY'S PROGRAM TO MINIMIZE THE DANGER OF INTRODUCTION OF MOSQUITO BORNE DISEASES BY RETURNING PERSONNEL. By O. R. McCoy, Lt. Col. M.C., Director, Tropical Disease Control Division, Office of the Surgeon General, Washington, D. C.

SPECIALIZED MILITARY EQUIPMENT AND POSSIBLE USES FOR IT IN MOSQUITO CONTROL BY CIVILIAN AGENCIES AFTER THE WAR. By Lt. Col. J. J. Gilbert, Sn.C., and Captain W. D. Reed, C.E., Washington, D. C.

ANTI-MOSQUITO WORK IN CANADA IN 1944. By C. R. Twinn, Associate Entomologist, Department of Agriculture, Ottawa, Canada.

MOSQUITO RESEARCH IN THE BUREAU OF ENTOMOLOGY AND PLANT QUARANTINE OF THE AGRICULTURAL RESEARCH ADMINISTRATION, U. S. DEPARTMENT OF AGRICULTURE, 1944. By Mr. H. H. Stage, Acting in Charge, Division of Insects Affecting Man and Animals, Bureau of Entomology and Plant Quarantine, U. S. Department of Agriculture, Washington, D. C.

MOSQUITO TRANSMITTERS OF DISEASE. By Dr. Robert M. Stabler, Professor of Parasitology, University of Pennsylvania, Philadelphia, Pa.

OPERATIONAL PLANNING FOR THE MALARIA CONTROL IN WAR AREAS DDT RESIDUAL HOUSE SPRAYING PROGRAM. By John M. Henderson, Sr., Sanitary Engineer (R), U.S.P.H.S., Atlanta, Ga.

TRAINING AND EDUCATIONAL SERVICES ON THE MALARIAL CONTROL IN WAR AREAS PROGRAM. By W. S. Boyd, Surgeon (R), U.S.P.H.S., Atlanta, Ga.

Fourth Session

Thursday, March 29 - 2:00 to 6:00 P.M.

ANTI-MOSQUITO WORK IN THE OTHER AMERICAN REPUBLICS. Dr. Clark H. Yeager, Chief, Medical Section, The Institute of Inter-American Affairs, Washington, D. C.

A SUMMARY OF MOSQUITO WORK IN NEW JERSEY IN 1944. By Thomas D. Mulhern, Administrative Assistant, Grade I, New Jersey Agricultural Experiment Station, New Brunswick, N. J.

NEED FOR MOSQUITO CONTROL: IN CUMBERLAND COUNTY: By Dr. Joseph Lamb, President, Cumberland County Mosquito Extermination Commission, Bridgeton, N. J.

IN GLOUCESTER COUNTY: By Mr. Hugh Mehorter, Member, Gloucester County Board of Chosen Freeholders, Woodbury, N. J.

THE RELATION OF MOSQUITOES TO NEW JERSEY AGRICULTURE. By Dr. Bailey B. Pepper, Acting Head, Department of Entomology, New Jersey Agricultural Experiment Station, New Brunswick, N. J.

THE MOSQUITO CONTROL PROGRAM IN CAMDEN COUNTY. By Walter G. Evans, Superintendent of Mosquito Control in Camden County, Camden, N. J.

THE MERCER COUNTY MOSQUITO EXTERMINATION COMMISSION. By Mrs. Charles Maddock, Member, Mercer County Mosquito Extermination Commission, Trenton, N. J.

THE INTEREST OF THE NEW JERSEY FEDERATION OF WOMEN'S CLUBS IN WARTIME MOSQUITO CONTROL. By Mrs. John A. Hilton, Chairman Mosquito Control, New Jersey State Federation of Women's Clubs, Wildwood, N. J.

THE OUTLOOK FOR NEW PROGRAMS OF MOSQUITO WORK IN NEW JERSEY. By Dr. William H. Martin, Director, New Jersey Agricultural Experiment Station, New Brunswick, N. J.

THE MOSQUITO AND MOSQUITO BORNE DISEASE PROBLEM IN INTERNATIONAL AIR LINES OPERATION. By Dr. Frederick H. Shillito, Pan American Airways System, Boston, Mass.

Thursday, March 29 - Evening - No Session

Fifth Session

Friday, March 30 - 9:30 A.M. to 12:30 P.M.

SPECIES ASSOCIATIONS OF MOSQUITO LARVAE IN NEW JERSEY. By Dr. John B. Schmitt, Research Associate in Agriculture, New Jersey Agricultural Experiment Station, New Brunswick, N. J.

THE UTILIZATION OF FISH BY A MOSQUITO CONTROL DISTRICT. THEIR EFFECTIVENESS AND LIMITA-

TIONS. By Dr. Don M. Rees, Member of the Board of Trustees, Salt Lake City Mosquito Abatement District, Salt Lake City, Utah.

APPLICATION OF CULICIDE DUSTS BY EXPLOSIVES. By Dr. Robert D. Glasgow, Entomologist, New York State Museum, Albany, N. Y.

MOSQUITO WORK BY THE ARMY IN THE SECOND SERVICE COMMAND, WITH SPECIAL REFERENCE TO THE ENTOMOLOGICAL PHASES. By Col. C. M. Watson, Surgeon, and Lt. John V. Osmun, Entomologist, Second Service Command, Governors Island, New York, N. Y.

MALARIAL MOSQUITOES IN WAR AREAS IN THE NORTHEAST. By Herman L. Felton, P. A. San. Engineer (R), U.S.P.H.S., New York, N. Y.

T. D. MULHERN

PRESIDENT OF VENEZUELA INSPECTS MALARIA CONTROL PROJECT. The following note and photograph are from Dr. Arturo Luis Berti, Chief Engineer, Division de Malariologia, Ministerio de Sanidad y Asistencia, Salubridad Publica, Maracay-Aragua, Venezuela.

"During a recent trip to the Eastern part of Venezuela, General Isaias Medina Angarita, President of Venezuela, made an inspection of the malaria control project going on in the City of Maturin. This project is in cooperation with the Venezuelan Government and the Institute of Inter-American Affairs."—Arturo Luis Berti, Chief Engineer.



General Isaias Medina Angarita, President of Venezuela, inspects malaria control project at Maturin.