NEWS AND NOTES

CHESTER ROBINSON, who has been Manager of the East Side Mosquito Abatement District at Modesto, California, for the past fiifteen years, has been selected by the Board of Trustees to succeed to the managership of the Alameda County Mosquito Abatement District.

The Skeeter, news organ of the Virginia Mosquito Control Association, has a thought-provoking article on light traps, which is worthy of republication for those who may not have seen the original. In part, it says, "In 1954, the Bureau of Insect and Rodent Control continued to encourage mosquito commissions to maintain light traps in their districts, and offered the technical services of its personnel to identify and keep records of trap catches and to relay pertinent information to the men in the field. A single collector made daily rounds of 17 traps over a period of 18 weeks, records of each collection ordinarily being available by the end of the day it was received. 24,689 mosquitoes (were) processed, identified, and recorded during the 18 weeks period. 20,417 of this number were females, which gave an average figure of 9.53 per night (per trap), on the basis of all the traps operated.

"The Mansonia perturbans plague of spring and carly summer was unusually severe at Virginia Beach during the past season and is especially exasperating to Supt. Carter because their breeding grounds in adjacent Seashore State Park remain inviolable by any except nature lovers with a horror of the successful operation of modern

engineering conservation.

"The Culex family continues to rank high on the list, although its general prevalence decreased more than 30%; Aedes vexans and P. confinnis picked their spots to make vicious sneak attacks, although vexans did show a welcome decrease from the 1953 total. The rest of the 24,689 included most of the list of ordinary species com-

monly found in this area.

"The immediate value of such a trap program depends largely on the promptness with which pertinent information can be obtained and relayed to field directors. The cumulative value increases enormously as comparative figures become available over a longer period and a larger area. Richard F. Peters (commented) in March 1954, 'An important corollary to the growing mosquito problem is the need for measurement of mosquito occurrence in order to be able to depict accurately the trend and the success of the prevention or remedial program'."

A PREGNANT QUESTION FOR ALL CONTROL WORKERS, though couched in humorous vein, is also offered by the *Skeeter* in the same issue. Superintendent Carter, of the Virginia Beach area, quotes a four-year-old constituent as saying, "The mosquito men have been around, Grandpa. I

smell 'em." The Skeeter comments, "Perhap it would pay to publicize this identifying odor or add a little popular perfume to glamorize ou work with the ladies." (We assume that the mean to glamorize their "work," not their "worl with the ladies,"—A. W. M.) "How about try ing a touch of 'My Sin'?" the Skeeter adds "Any suggestions?"

MILTON H. BUEHLER, of the Lane Count Health Department, Eugene, Oregon, sends in a a scientific note, a "Preliminary Report on Recently Developed Thermal Fog Generator."

"A large capacity thermal fog generator habeen developed by the Mosquito Control Sectio of the Lane County Health Department, i Eugene, Oregon. This equipment is a modification of the Plumber's Nightmare, King Size (T. G. Raley, Mosquito News, 12(3):141–144). It has a capacity of 52 g.p.h., produces a uniforr fog, and has proven effective in the field for th reduction of mosquitoes at distances of one mil under all normal weather conditions.

"This piece of equipment is powered by a h.p. Wisconsin air cooled motor which is cor nected by belt drive to a high pressure blowe and two Bendix gear type pumps. The blowe has a six inch inlet and outlet, turns at 6,00 r.p.m. and delivers air at the rate of 600 c.f.n The air passes through a jacketed fire pot when the air is heated. Heat is provided by burnin kerosene, atomized by a 3 g.p.h. Monarch o burner nozzle at a pressure of 250 p.s.i. supplie by one of the Bendix gear type pumps having capacity of 1 g.p.m. at 1,000 p.s.i. from a 1 gallon kerosene storage tank. Heated air from the fire pot passes into a Venturi type fog tult consisting of a 3" pipe tee reduced to 11/4" by short nipple and then enlarged to 4" by a tw foot length of steel irrigation tubing, the openin of the 4" pipe is again reduced to 2\%". Fo oil, a 10\% DDT-S/V Sovacide F solution, atomized into the fog tube by means of a atomizing nozzle (Spraying Systems Co. Nozz No. ¼ LNNSS26) inserted in a plug, fitting in the 3" tee, at the rate of 52 g.p.h. at a pressu of 125–150 p.s.i. by one of the Bendix gear typ pumps having a capacity of 1 g.p.m. at 1,00 p.s.i. from a 160 gallon oil storage tank mounte on a two-wheeled trailer.

"A uniform fog is obtained by regulating the pressure of the kerosene burner nozzle and the fog oil nozzle. Slight adjustments in pressue enable the operator to compensate for temper ture and humidity changes in the atmospher which have an effect upon the dispersal and dri

of aerosol fogs.

"During the 1954 mosquito control season was possible to operate this piece of equipmen every night throughout the season regardless weather conditions. Effective mosquito control was obtained at distances of one mile. Approx

nately one township, 36 square miles, was ogged each night. Arrangements have been nade with the U. S. Department of Agriculture, Agriculture Research Service, Entomology Reearch Branch, Insects Affecting Man Animals, Corvallis, Oregon, to run a series of ests on this equipment to determine the average particle size, effective killing range, and the imount of thermal decomposition of DDT. nore detailed report will be submitted following he completion of these tests."-Milton H. Buehler.

OSCAR V. LOPP, who recently accepted the posiion of Entomologist for the South Cook County Mosquito Abatement District, in Illinois, writes hat their plans for the 1955 season are already nearing final form and he extends an invitation to visit their activity and to see their operations, f by chance members of other areas can get away from their own problems long enough during the eason to pass by Chicago.

HARRY STAGE, too busy to write a letter, sends he agenda of the Malaria Conference for Western Pacific and South East Asia Regions, held 15 to 27 November 1954, in Baguio, Luzon, the hilippines. For those who have never been to he Philippines, Baguio is a mile-high mountain ity, whose clear, cool air offers an almost toohilly relief to sweltering lowlanders, who have o play golf to keep warm. Harry adds the note, 'This Baguio place, after a year in the heated owlands is a real honey. I'm enjoying it no end. After the conclusion of this interlude, a group of ive Vietnamese and I shall go around the Philippines and Taiwan in an effort to find training acilities for our own nationals. Regards to all, Harry.'

The list of participants includes such wellknown people as Dr. Luang Ayurakit Kosol, of Thailand, for whom the late Deed Thurman named a new genus of Thai mosquitoes, Franisco Baisas, of the Philippines, Dr. Robert H. Black of Australia, Dr. Antonio Ejercito, of the Philippines, Professor Kaoru Morishita, of Osaka Jniversity, Japan, Dr. H. de Rook, of Netherlands New Guinea, Travis E. McNeel, of FOA, the hilippines, Dr. Paul Russell, of Rockefeller Joundation, Dr. G. R. Villanueva, of the Philippines pines, Dr. Francisco Dy, of the Philippines, Don . Pletsch, of WHO, Taiwan, and many others, ncluding Harry and his associate Dr. M. E. ₹arinauď.

LAWRENCE B. HALL, in charge of equipment levelopment for the Savannah laboratories of the J. S. Public Health Service's Communicable Disase Center, departed on January 19 for Geneva, witzerland, where he will serve for six months is a consultant to the Expert Committee on Inecticides of the World Health Organization. Larry's previous assignments have taken him to such far and near places as China (1941-2), 3ombay and Karachi, India (1942-3), Atlanta, Ja. (1943-49), Tehran, Iran (1949) and finally back to Savannah. While on his assignment to

Geneva, he will replace temporarily Mr. J. W. Wright, the Secretary of the Expert Committee, while Mr. Wright is attending graduate school at the University of Minnesota.

Mr. William J. Buchanan has been announced as the new Engineer-Manager of the South Cook County Mosquito Abatement District. In addition to serving some six years as a sanitary engineer in the Medical Service Corps of the Army, during World War II and the Korean war, leaving active duty with the rank of Lt. Colonel, Mr. Buchanan has served as advisor in North and Central Viet Nam and at home, with the U. S. Public Health Service, in Indiana, Mississippi, South Carolina and California. He has been in charge of shoreline improvement at all TVA reservoirs and was chairman of the Work Group on Mosquito Control and Allied Problems of the Arkansas-White-Red River Basin Inter-Agency Committee, immediately prior to accepting the position in Illinois.

WILLIAM C. FROHNE, WHO SENT IN A NOTE ON THE ALASKAN Aedes Species Infested WITH MERMITHID WORMS, to supplement the article by Jenkins and West in the September *Mosquito* News, sends the following supplemental note on a species not yet listed for these parasites:

(3) One mermithid in a 4th instar Aedes excrucians (Wlk.) collected 19 May 1954 from a semi-permanent Carex pond near Copper Center, Alaska. From this same pond 6 other entirely unparasitized collections were made in May and June 1953 and 1954. The pond is intermediate in type so that 6 species of Aedes, one each of Culex, Anopheles, and Culiseta breed there before it dries up late in July."

California Vector Views in an article by Tommy Mulhern, reports that the East Side Mosquito Abatement District, in cooperation with the Modesto Irrigation District, has been successful in installing more than 100 pumps at strategic collection points where excess irrigation water can be safely and economically returned to the canals for Seventeen agencies have cooperated in the formation of a water conservation committee which is trying, through voluntary modification of individual programs, to develop water resources to optimum condition with no conflict among the various interests. "With estimates of a doubled population in the State for 25 years," the report goes on to say, "irrigation will have to be expanded from 7 to 17 million acres to provide the necessary food.'

In San Joaquin County, California, meanwhile, the Board of Supervisors has, after 6 years of effort on the part of civic groups, authorized the formation of a mosquito abatement district. This district, of approximately 1,000 square miles, will include Tracy, Stockton, Manteca, Escalon, Farmington, and Ripon. Present plans call for operations to begin on July 1. The Northern San Joaquin County Mosquito Abatement District,

formed in January 1948, was scheduled to annex some 200 square miles prior to November 15.

S. F. Bailey, R. M. Bohart and L. J. Booher have combined in the production of an excellently-written and illustrated pamphlet entitled, "Mosquito Control on the Farm," issued as Circular 439, by the University of California. The booket contains 28 pages and is filled with sound guidance in water and land management, and the most effective methods of mosquito inhibition and control. It may be obtained without charge.

Who's Who in A.M.C.A. Leads Us to Four Well-Known Members from Outside the United States. Dr. H. De Rook, for thirty years with the Public Health Service of the Netherlands East Indies, and since 1948, chief malariologist of the Netherlands New Guinea oil companies is located at Sorong, Netherlands New Guinea.

Dr. Abdul Rahim, of Shahre Nai, Kabul, Afghanistan, has for the past five years been Director General of the Malaria Organization of Afghanistan. As might be expected of one living in that country, he admits he is a passionate hunter. Dr. Rahim was born in 1709 in Quetta and graduated from high school in Germany, after which he attended Friedrich Wilhelm University in Berlin and received his doctor's degree in 1939. Dr. Rahim organized and headed the Malaria Organization of Afghanistan, which has trained its own personnel and has continuously expanded operations until, at the end of 1953, nearly 1,000,000 persons were being protected.

Dr. Cecil R. Twinn, well known as an entomologist of the Canadian Department of Agriculture, in charge of the Veterinary and Medical Entomology Unit of the Division of Entomology, has had a past history which we do not all know. Born in London, England, he migrated to the U. S. in the spring of 1914 but left to enter Canada at the outbreak of the war in order to join the Canadian Army. He received his B.S. from the University of Toronto in 1922, his M.S. from McGill and Ph.D. from Ottawa. Besides having been the president of the American Mosquito Control Association, he is also a past president of the Professional Institute of Public Science of Canada, a Fellow of the Royal Entomological Society of London, and a member of the Entomological Society of America, the Entomological Society of Canada, the Entomological Society of Ontario, the Agricultural Institute of Canada, and an honorary member of the Canadian Pest Control Operators' Association.

DR. Luis VARGAS, head of the Institute of Health and Tropical Diseases in Mexico, D.F., who received his M.D. from the University of Mexico and Master of Public Health and of Biological Science from Johns Hopkins and Mexico, respectively, is also a member of many important scientific organizations, including the National Academy of Sciences of Mexico and the

W.H.O. Malaria Experts, Parasitic Discases Experts and Insecticides Committees. From the National Academy of Sciences he received the Carnot Prize in 1952.

THE EIGHTH ANNUAL MEETING OF THE VIR-GINIA MOSQUITO CONTROL ASSOCIATION Was held on February 24 at the Monticello Hotel in Nor-The Association, which has a memfolk, Va. bership of about 272, had an attendance at the meeting which was somewhat in excess of the 110 who registered. Members of the A.M.C.A. attended from New Jersey (Bob Vannote, Lester Smith and Dan Jobbins), from Washington. D. C., (W. C. McDuffic) and from North Carolina (Charles M. White) and there were representatives of the Navy, the Army Corps of Engincers and the 15 mosquito control districts of Virginia. A very full and well rounded program was presented during the two sessions, which included papers on local problems, new insecticides, species evaluation, the importance of training and of specialist supervision, the continuing value of basic permanent-type control and the need to utilize proper mechanical equipment in the face of present-day increased labor costs and decreased diligence. Mr. William S. Coburn, City Manager of Hampton, Va., who testified to the importance of mosquito control in his part of what has become the largest metropolitan area in Virginia and one of the largest concentrations of military installations in the world, added a thought which found favor with all. He asserted that while Rollie Dorer had attempted to teach him the difference between Anopheles and other longname species, he felt that they all belonged in a super-genus Mephistopheles. Mrs. L. Crawford Syer, a grand-niece of Dr. Carter, late Surgeon-General of the U.S.P.H.S. and a famed mosquito fighter, told of her community's successful efforts to arouse interest in formation of a mosquitocontrol district. She also reminisced of the tale, which she remembered in her childhood hearing her granduncle tell, of his use of cows to protect the embarking troops of World War I at Hampton. Seems he drove the cows in between the troops and the mosquitoes with the predictable but nonetheless highly satisfying result that the troops were left much more alone. The address at luncheon was by Dr. Edward H. Jones, pastor of the First Presbyterian Church of Norfolk, who told of his chaplain days in Alaska during W.W. II and the interest there in mosquito control, and then spoke movingly and effectively on Brotherhood Week, saying that mosquito control was one evidence of brotherhood in action but pointing out that in general ethics have lagged far behind science in the rush of progress.

RALPH C. BARNES, who has been entomologist with the Insect and Rodent Control Section, Chief of the Insect and Rodent Control Section and lately Chief of the Field Training Section of the U.S.P.H.S. Communicable Disease Center in Atlanta, Ga., has been announced as an Assistant

Chief of the Center's Training Branch. In his new issignment, Mr. Barnes will take charge of the nationwide training facilities of the Branch.

THREE NEW MOSQUITO ABATEMENT DISTRICTS HAVE BEEN FORMED IN THE CHICAGO AREA vithin the last two years. The possibility of orming other new districts is evidenced by the nany requests for information received by the Des Plaines Valley Mosquito Abatement District.

The Lake Bluff District has been in active peration for the past two years. Its boundaries oincide with those of the Village of Lake Bluff nd adjoin the Lake Forest District to the south. Dr. Robert L. Woolridge is President of the Board Trustees and Mr. Thomas J. Evert is uperintendent.

The Glen Ellyn District in DuPage County was stablished in July, 1954, and will begin field perations in the near future. The district inludes the Village of Glen Ellyn and some adjoinng areas, approximately six square miles. Mr. Villis Collins is President of the Board of

rustces.

The South Cook County District, established in 952, has finally disposed of all litigation and is ow making plans for operation early in 1955. his district of approximately 360 square miles with a population in excess of 500,000 includes ll of Cook County south of 87th Street, and adsins the southern boundary of the Des Plaines 'alley District. Dr. Edward J. Czarnetsky is resident and Mr. William J. Buchanan, Engineerfanager.

From the Report of the First Mosquito CONTROL CONFERENCE in the State of Oregon eld in Division of Sanitation and Engineering, regon State Board of Health, Portland, Oregon. ecember 15, 1954. (Members of the Oregon tate Board of Health, assisted by many other ector control workers in the state, planned and

inducted the conference):-

Verne C. Reierson, Chief, General Sanitation ection, acted as chairman for the opening proram. The opening address was given by Curtiss 1. Everts, Jr., Director, Division of Sanitation and ngineering. Mr. Everts outlined the trend of ector control requirements that have been made uring the past several years. He noted spefically the mosquito control work, as well as ther insect control, will continue to be an ineasing problem in Oregon for a number of asons known to everyone in attendance. Everts so commented on the basic needs for planning nd conducting workmanlike vector control pro-One of his points was the need to rovide more workable legislative statutes that ould be feasible so that requirements of all the eas within the state could be administered under satisfactory local administration. Mr. Everts elcomed all persons in attendance on behalf of ie Oregon State Board of Health and endorsed te proposed principles of planning for and deloping an association that would be singly conrned with vector control activity.

Dr. Ralph R. Sullivan, Director, Industrial Hygiene Section, Oregon State Board of Health, led a discussion on insecticides, their use and limitations. Dr. Sullivan presented to all persons in attendance a brochure of materials which included identification of pesticides, trade names of organic phosphorus insecticides, toxicology of agricultural chemicals used as pesticides (with particular reference to precautionary measures against organic phosphorus poisoning), respiratory devices for protection against inhalation hazards of dusts, mists and low vapor concentrations of certain pesticides. Sullivan pointed out the problem of proper labeling of insecticides confronting the public agencies. A review of the action covering registration of economic poisons by the State Department of Agriculture was given. Dr. Upholt, as well as Mr. Eddy, contributed significant points in response to the questions and comments presented by the group. It was agreed that any individual working for a public agency should utilize only those insecticides that are wellestablished to the industry both from the laboratory and research areas, as well as actual field use. The trend turning toward what might seem more effective and dramatic chemicals should be tempered in the light of the unknown, particularly if there is a greater known hazard in either handling or applying those chemicals.

Mr. Noel P. McKeehan acted as chairman of the following portion of the program, which included a mosquito control program report, given by Mr. John Huber, of the Department of Insect Control, City of Portland; a paper on the historical background of the mosquito control program leading up to the 1954 report, by Mr. Milton H. Buehler, Director of the Lanc County Mosquito Control Program; an outline of the activities of the Douglas County mosquito control program by Mr. LaVerne S. Miller, Sanitarian; an outline of the proposed program for the Coos County area commencing next year, by Mr. C. E. Fields, Sanitarian; an outline of the present citywide program as now conducted, by Mr. W. G. Hellie, Entomologist and Sanitarian, City of Salem, Marion County Health Department: and an outline of the problems and the need for a mosquito control work in Columbia County, by

Mr. Bennie Rinehart, Sanitarian.

Mr. Milton H. Buehler was the moderator of a panel to discuss and answer questions on mos-

quito control programs and problems.

Mr. Reierson acted as temporary chairman of an organizational session. Persons in attendance selected Milton H. Buehler as chairman and he in turn appointed Mr. John Huber and Mr. LaVerne S. Miller to work with him as a committee with all of the necessary privileges to make studies and appointments and to plan for the next meeting at which time a definite set of recommendations will be presented for action to indicate the title, purpose and objectives of said association. It was also unanimously agreed that Mr. Buehler would act as a representative

from this group at the forthcoming American Mosquito Control Association meeting to be held in Los Angeles, January 24–27, 1955.

THE UTAH MOSQUITO ABATEMENT ASSOCIATION held its 8th annual meeting on March 18 and 19, in Farmington, Utah. The program included a panel discussion featuring members of the U.S.P.H.S. field station at Logan, where Archie Hess is now Chief; a report from Dick Peters, President of the AMCA, on the joint conference of the AMCA and CMCA held at Los Angeles in February; reports and papers from California mosquito control men; reports and papers from Utah mosquito control men on problems of special interest in Utah; and individual reports which were headed "Highlights of the Districts," from the various Utah mosquito abatement districts. (Notes made by the Editor from an advance program contributed by Don Rees.)

A Group of People Interested in Forming a New England Mosquito Control Association met at the University of Massachusetts on February 2 and 3. The meeting promptly revised the territory to include New York State and adopted the name Northeastern Mosquito Control Association. The purpose of this association is to pro-

mote the efficiency of mosquito control and related activities through the encouragement of research, development of procedure and the interchange of information. They hammered out a constitution and bylaws and elected a slate of officers, as follows:

President—Joseph F. Pannone, Mosquito Control Supervisor, Dept. of Agric., Veterans Memorial Bldg., 83 Park St., Providence, R. I.

Vice President—Lewis F. Wells, Supt., So. Shore Mosquito Control Project, 1120 Hancock St. Quincy, Mass.

Secretary-Treasurer—Robert L. Armstrong, Supt. E. Middlesex Mosquito Control Proj., 301 City

Hall, Cambridge, Mass.

Member for one year—Frank Shaw, Associate Professor of Entomology, Fernald Hall, Univ of Mass., Amherst, Mass.

Member for two years—Patrick Tocci, Needham Public Works Dept., res.—285 Central Ave. Needham, Mass.

These five officers constitute the Executive Board. There will be an Advisory Committee made up of one member from each State in the area included in the Association.

Main features of the meeting in addition to the business of organizing were (1) an account o blackfly control in New York State by Dr. Huge



Officers of the newly formed Northeastern Mosquito Control Association. Left to right: Patricl Tocci, Frank Shaw, Joseph Pannone, Robert L. Armstrong and Lewis F. Wells.

umnback, (2) a panel discussion on prehatch incticide applications for mosquito control, (3) tendance as guests of the Eastern Conference of the National Pest Control Assn. during the session in insecticides and (4) a panel on supplementary uisance pests: Greenheads, biting gnats and

midges. At the evening session Prof. Charles P. Alexander told of his observations in the Territory of Alaska and showed many beautiful color photos, taken during the several journeys which he and Mrs. Alexander have made in that territory.—R. L. Armstrong.

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