MESSAGE FROM THE PRESIDENT

Greetings! It is now one month since the association has been under a new stewardship. The time went quickly, but it was a busy month. The Annual Meeting in Atlantic City was well attended and very successful. I would like to thank the members of the Convention Arrangements Committee as well as the Companion Committee which suffered a few glitches beyond their control (like snow and sleet).

Already, the Convention Arrangements Committee has been busy making arrangements for next year's meeting. It is expected that the meeting will continue in Atlantic City but there will be a change of casino/hotel location and a change in dates.

After Atlantic City, we packed our gear and set out once again, this time to Norfolk, Virginia, site of the A.M.C.A. 62nd Annual Meeting. This one was extremely important to NJMCA as our (Year 2000) committee had worked for over a year in preparing for a presentation that would be made to A.M.C.A. Board of Directors. The purpose of the presentation was to bring the A.M.C.A. Annual Meeting to the State of New Jersey to celebrate 100 years of mosquito control. The presentation was made at the Board of Directors Meeting on Saturday, March 23, 1996.

Christine Musa, Chairperson of the committee, introduced the members from New Jersey. Judy Hansen gave the presentation followed by Mr. Neil J. Mullanaphy (Atlantic City Convention and Visitors Authority). A 15 minute video was shown. Attending the session from New Jersey were Howard Emerson, Martin Chomsky and myself.

At the conclusion of the presentation, a motion to accept N.J.M.C.A.'s proposal was made by Mr. William J. Zawicki and seconded by Dr. Kenneth Ludlam. The vote was overwhelmingly in favor, and the motion was passed. On behalf of the association, I would like to thank Christine Musa and all the members of her committee as well as Judy Hansen for the successful establishment of New Jersey as the site of the A.M.C.A. meeting for the year 2000.

Good-bye for now.

Dr. Thomas E. Murray
President
New Jersey Mosquito Control Assoc.
ANNUAL MEETING COMMITTEES

⇒ COMMERCIAL EXHIBITS: R. Candeletti & J. Mcnelly (Co-Ch), W. Fisher, J. Fitzpatrick, T. Vallone

⇒ CONVENTION ARRANGMENTS: M. Chomsky (Ch), C. Musa, B. Reinert, T. Sellers, L. Undercuffler

⇒ PROGRAM: M. Slaff (Ch), R. Candeletti, W. Crans, R. Kent, C. Musa, C. O’Malley

⇒ PROJECTION: J. Sweet (Ch), D. Chort, B. Duryea, A. Juszcyk, S. Longo, M. Romanowski, J. Nunemaker

⇒ REGISTRATION: L. Undercuffler (Ch), L. Dickson, B. Hajek, J. Hoffman

⇒ COMPANION: T. Sellers (Ch), G. Gandy, P. Gillis, M. Stachecki, A. Crans, F. Mcnelly

⇒ AWARDS AND RESOLUTIONS: B. Hajek (Ch), K. Bruder, R. Byrd, R. Keyes, F. Killeen, R. Outlaw

OTHER COMMITTEES

⇒ AUDITING: H. Emerson (Ch), C. Gillis, T. Sellers

⇒ EDITORIAL: J. Hansen (Ch), K. Bruder, W. Crans, L. Spiegel

⇒ PESTICIDE APPLICATOR TRAINING: R. Schmidt (Ch), S. Crans, G. Donnelly, R. Duryea, F. Krachun, J. Pannone, M. Romanowski

⇒ EDUCATION: W. Crans (Ch), M. Slaff, H. Emerson, C. Musa, C. O’Malley, J. Mcnelly

⇒ LEGISLATIVE: R. Dreyer (Ch), K. Bruder, B. Reinert, J. Hansen, B. Meredith, A. Rappaport

⇒ MEMBERSHIP: B. Hajek (Ch), R. Kent (Asst. Ch), T. Candeletti, C. Musa, R. Schmidt, C. Stachecki, W. Zawicki

⇒ NEWSLETTER: B. Reinert (Ch), W. Crans, B. Hajek, C. O’Malley, M. Romanowski, L. Undercuffler

⇒ PUBLIC RELATIONS: J. Mcnelly (Ch), S. Crans, B. Ehrenberg, H. Emerson, J. Klemmer, D. McCormick, C. Musa, R. Kent

⇒ RESEARCH AND DEVELOPMENT: M. Romanowski (Ch), D. Chort, J. Donnelly, R. Duryea, B. Kent, F. Mahmood, D. Guthrie, B. McKelvey, R. Schmidt, L. Soccia, C. O’Malley

⇒ UNIVERSITY LIAISON: J. Hansen (Ch)
M. Chomsky, W. Crans, R. Dreyer, T. Sellers, D. Sutherland, R. Evans

⇒ INTERSTATE: S. Crans (Ch), D. Arbogast (PA), R. Candeletti (NJ), A. Gettman (RI), F. Krenick (NY), C. Lesser (MD), D. Scott (MA), R. Wolfe (DE)

⇒ JOINT AMCA: C. Musa (Ch), J. Hansen, C. Kleczko, K. Ludlam, M. Chomsky, B. Zawicki, H. Emerson

⇒ HISTORICAL AND ARCHIVES: R. Schmidt (Ch), A. Juszcyk, B. Hajek, M. Hajek, R. Kent

⇒ BY-LAWS: T. Candeletti (Ch), B. Hajek, C. Musa, B. Reinert, M. Slaff

⇒ SCHOLARSHIP: H. Emerson (Ch), R. Arndt, T. Casey, W. Crans, L. Spiegel


⇒ COMPUTER: S. Crans (Ch), W. Crans, C. Musa, L. Undercuffler, B. Reinert, B. Hajek, M. Chomsky

⇒ TRUSTEES AT LARGE: C. O’Malley, R. Kent, W. Zawicki, R. Candeletti, R. Schmidt

April, 1996
NEWS FROM THE 83RD ANNUAL MEETING OF THE NJMCA, Inc.

NEW "HONORARY MEMBER"

Mrs. Frances Killeen of the Cape May County Mosquito Commission was made an Honorary Member of the N.J. Mosquito Control Association on March 6th during the business meeting/luncheon at the 83rd Annual Meeting of the NJMCA, Inc. in Atlantic City. Mrs. Killeen was honored for her 46 years of dedicated service to mosquito surveillance and control as a Principal Clerk for the Commission, and as a testament to her involvement with this Association.

In addition to being a past Chairperson of the Membership Committee, Frances has served at the Associations registration desk for over 40 years, and was a member of the Spouse/Companion Committee during two joint NJMCA-AMCA meetings. Neither her civil service title, nor this brief paragraph do justice to her responsibilities while employed by Cape May County; let it suffice to say that there simply isn’t a hat rack large enough to accommodate all the hats Frances has worn over the years.

By unanimous approval of the Association’s membership, Mrs. Frances Killeen joins a select group of individuals. Congratulations once again!

James R. McNelly
Cape May County MEC

ELECTION RESULTS

At the business meeting of the 83rd Annual Meeting of the NJMCA, Inc. held at the Trump Plaza Hotel & Casino in on March 6, 1996 the following were elected as the officers of the Association: President, Dr. Thomas Murray (NJ State Mosquito Commission), 1st Vice-President, Chester Stachecki (Delaware Div. of Fish & Wildlife), 2nd Vice President, Dr. Marc Staff (Morris County MEC), Secretary, Bunita Hajek (Rutgers MR&C, ret.), Treasurer, Christine Mass (Warren County MEC).

The following trustees were elected as at-large trustees to the Executive Committee: Dr. Wayne Crans (Rutgers MR&C), Martin Chomsky (Monmouth County MEC), and Howard Emerson (Camden County MEC).

Five regular members were elected to be at-large trustees to the Association: Claudia O’Malley (Burlington County MEC), Bill Zawicki (Northeast Vector Mgt.), Roderick Schmidt (Middlesex County MEC), Richard Canoletti (Ocean County MEC), and Robert Kent (NJ Office of Mosquito Control Coord.). Also re-appointed were Linda Dickson (Warren County MEC) as assistant-treasurer and Loretta Undercuffler (Cape May County MEC) as assistant-secretary.

25 YEAR SERVICE AWARDS

The Association’s Twenty-five Year Service award was presented to Peter Pluchino Jr. and Thomas Zicker of Bergen County, Stephen F. Chereek and James D. Leek of Burlington County, Leslie A. Miller and Louis Patterson of Camden County, Patricia Dreyer and John Boyle of Middlesex County, and Tad Sims of Morris County.

ASSOCIATION MEETINGS

Following is a tentative schedule of NJMCA Executive Committee and Board of Trustee meetings, locations will be announced in the future:

April 24, 1996 - Executive Comm. - 9:30AM
Board of Trustees - 11:00AM

August 14, 1996 - Executive - 9:30AM
Board of Trustees - 11:00AM

November 13, 1996 - Executive - 9:30AM
Board of Trustees - 11:00AM

Trump Taj Mahal, Atlantic City, NJ

MEMBERSHIP IN NEW JERSEY MOSQUITO CONTROL ASSOCIATION, Inc.

Benefits of membership in the NJMCA, Inc. includes the Newsletter, a copy of the Proceedings of the NJMCA Annual Meetings, and you’ll have the opportunity to participate in the exchange of ideas and knowledge with other mosquito control professionals. To apply for membership fill out the following application and forward it to: Mrs. A.R. Hajek, Mosquito Research and Control, Cook College, PO Box 231, New Brunswick, NJ 08903. Make checks payable to "New Jersey Mosquito Control Association", membership period is from March to March.

Name: ___________________________ Individual $25.00/yr: ___________________________
Sustaining $250.00/yr: ___________________________

Address: ___________________________ Contribution to D.M. Scholarship: ___________________________

Phone: Office: () Home: ()

April, 1996
NEW JERSEY MOSQUITO CONTROL ASSOCIATION, Inc.

NEWSLETTER

SURVEILLANCE TECHNIQUES

"LANDING RATES AND BITE COUNTS FOR NUISANCE EVALUATION"
Roderick F. Schmidt, Middlesex County MEC

Following are selected excerpts from a paper given by Roderick Schmidt in a symposium organized by Robert Kent titled “Surveillance Techniques: Uniformity, Consistency and Reliability” at the 76th Annual Meeting of the New Jersey Mosquito Control Assoc., Inc. The intent of the symposium was to help develop guidelines and minimum standards for mosquito surveillance programs.

INTRODUCTION

In preparation for this talk on landing rates and bite counts, I conducted a survey of New Jersey mosquito control agencies and discovered that there is wide variation on how the counts are conducted. In some cases, the agencies indicated that they made no distinction between the two. This paper will attempt to distinguish the differences and make guidelines for their usage in mosquito control.

THE EVOLUTION OF BITE COUNT METHODOLOGY

At one point in the history of New Jersey mosquito control there was no formal adult surveillance. Mosquito control agencies thought that by polling the people that lived in an area where reduction work was taking place they could determine how successful the effort was. This type of surveillance proved unreliable so the birth of adult surveillance occurred.

You will have to remember that this took place before the New Jersey light trap existed. Before the light bulb was used as an attractant, the human body was used as the substitute. This type of adult surveillance was not referred to as either a landing or bite count but as a day or night collection. The first recorded information I could find on adult surveillance was written by Dr. Headlee in 1917.

He talked of a day collecting trip to the New Jersey shore for Aedes sollicitans and I quote, “All collections were made in shrubbery or tall weeds in broad daylight. All collections were the work of two (2) collection bottles. When the total catch in five (5) minutes reached 30, the limiting factor became the length of time necessary for the bottles to kill.”

For information on night adult surveillance I asked Mr. Jessie B. Leslie if he could help me and he agreed. To the best of Mr. Leslie’s recollection, a night collection was twenty (20) minutes in duration. Each inspector was assigned a location, Mr. Leslie’s being in Carlstadt on top of a hill. The inspector would report to his post at dusk, roll up his sleeves and wait. They would use killing tubes to capture the insects. As Mr. Leslie told me, “it was primitive but effective and as we were starting from scratch, it did help to give us the necessary information as to density and species”. Change the wording a little and these descriptions could be the landing or bite count taken last summer.

When adult surveillance came into greater use, the shortcomings and variables became apparent.

RESULTS OF THE QUESTIONNAIRE

.... Landng rate and bite count data are used for many different purposes by the mosquito control agencies that were polled. The primary use is justification for adulticiding. Other uses include: 1) Justification for water management projects, 2) Effectiveness of adulticiding, 3) Larval habitat location, 4) Vector potential of biting populations, 5) Light trap placement, 6) Improved larval surveillance and 7) A comparison of biting populations vs. light trap data.

GUIDELINES FOR CONDUCTING BITE COUNTS AND LANDING RATES

.... The term “Landing Rate” should be used when an individual records the number of mosquitoes that land on the observer over a designated period of time. We suggest that they be taken over either a 1 or 5 min. period. If the landing rates exceed 50 in 30 sec., the interval can be shortened to protect observers that are expected to conduct numerous counts. Landing rates may involve speciation, if desired, but they are normally employed in areas where a single, known species is the sole cause of annoyance.

The term “Bite Count” should be used when an individual captures each mosquito that comes to bite over a designated time interval for species determination. Bite counts are most useful in areas where the biting populations consist of mixed species. The same time restrictions can be employed with an upper limit of ten (10) minutes when the biting populations are extremely low.

April, 1996
BITE COUNTS cont.
The following guidelines apply to both landing rate collections and bite count collections:
1. Wear solid color clothing whenever possible.
2. Maintain a consistent clothing color among the counters within a county to keep the results comparable.
3. No repellents, after-shaves, or perfumes should be used.
4. Take all landing rate and bite counts from a standing position.
5. Disturb the surrounding vegetation before starting the counts.
6. Count only those mosquitoes that land within view.
7. If work is conducted after sunset, the light source should have a red filter.
8. Develop a standardized form to facilitate the recording and filing of information.
9. Use real numbers on all forms.
10. When collecting mosquitoes for identification, use some type of aspirator, either electric or lung powered.
11. Be aware of the behavior of the species that is being monitored when interpreting data from landing rates and bite counts.

Editors note: readers are encouraged to read Rod's entire paper which can be found in the "Proceedings of the 76th Annual Meeting of the New Jersey Mosquito Control Association, Inc., 1989"

Q. What did the first mosquito say to the second mosquito as they flew by the funeral home?
A. Wanna stop in for a cold one?

NEW OFFICERS OF ASSOCIATED EXECUTIVES
At the February meeting of the Associated Executives of Mosquito Control Work in New Jersey, the following were elected as officers of that association:
President, Wayne J. Crans (Rutgers MR&C), Vice-President, Christine Musa (Warren County MEC), Treasurer, Scott Crans (Sussex County Mosq. Cont.), and Secretary, Claudia O’Malley (Burlington County MEC).

WEB NEWS
The John A. Muirenan, Jr. Research Laboratory of Florida A&M University has a Web site that provides information on the Lab’s publications on mosquitoes, Culicoides, stable flies and nontargets. The Pesticide Environmental Impact Section has a 1,000-plus entry database on impacts of mosquito control pesticides on nontargets. Give them a visit at http://www.famu.edu/jamslr/index.html

The Centers for Disease Control and Prevention’s Morbidity and Mortality Weekly Reports (MMWR) are now accessible on the WWW. Web to: http://www.cdc.gov/ and got to: "Publications, Products, and Subscription Services," then "Morbidity and Mortality Weekly Reports (MMWR)" to find, guess what, MMWR. Really?

The USDA ARS’s Pesticide Database is now available, guess where, on the Internet. Yes! You can browse at http://www.arsusda.gov/SRLHome.htm

... information on emerging and re-emerging diseases can be found on, guess again...the Internet. Yes, again! Contact http://ichiban.objarts.com/outbreak-unreg/index.html

...for anything on virus and virology [except cures] on where? Yes, the Internet. Call [or whatever] http://www.tulane.edu/~dmsander/garryfayweb.html

Wow!
Thanks to the April issue of the FMCA’s "Buzz Words" for the good web info. Dr. Charlie Morris, Editor

UPCOMING MEETINGS
December 9 thru 11, 1996
Best Western Hotel, Mystic, Connecticut (Rooms $46.00)

AMCA Annual Meeting
March 23-27, 1997 Salt Lake City, Utah

NJMCA/AMCA
April 2-6, 2000 Atlantic City, New Jersey

April, 1996
NEW JERSEY MOSQUITO CONTROL ASSOCIATION, Inc.

NEWSLETTER

PERSONNEL PROFILE

WILLIAM FISHER

Thirty two years ago a young man began a career in mosquito control, as he himself puts it, “at the wrong end of a chain saw”, clearing rights-of-way for water management projects. Since that time William Fisher, Superintendent of the Salem County Mosquito Commission has done everything from run the light trap route to personally filing for every state and federal permit necessary to do the job.

In his time, Bill has witnessed the growth of the commission operation from when they had to larvicide the entire Silver Lake Meadow (which is several thousand acres) by hanging over the side of an amphibious tracked marsh buggy while hand cranking out insecticide, to waiting-out bad weather inside the cab of the work truck because their shop facility was nothing more than an oversize corn-crib that “you could see through with one eye closed” (another Fisher colloquialism).

Since those days, Salem County Mosquito Commission’s program has become one that truly exemplifies the point made when this work is associated with the conception of “Integrated Pest Management”. The pride of the superintendent is the equipment used on their very aggressive water management projects. And, of course, the crew rebuilt from the ground up, their new state-of-the-art office, laboratory and shop facility.

Bill’s persona is well known throughout the county as he stays involved with other municipal and county government committees and boards, but most recently he was recognized for something more. While at home with his wife Diane, the 57 year old Fisher overheard, on the radio scanner, the traffic associated with the nearby pursuit and subsequent resisting-arrest drama of a solitary police sergeant and his suspect. As the Lower Alloways Creek Township resolution which honors his action describes it, “Mr. Fisher...without hesitation went to the scene and offered his assistance ...placing himself in jeopardy...and rendered assistance to a law enforcement officer...above and beyond his civic duty”.

Retirement is not in Bill’s immediate future.

Robert Kent
New Jersey OMCC

TIPS AND TECHNIQUES

Several tips to help you be a smarter and safer driver from Car & Travel, July/Aug. 1995. Submitted by Richard Candeletti, Ocean County MEC.

- You’re on vacation in an unfamiliar city, driving in the center lane of a multilane urban expressway. Your spouse, who’s navigating tells you to take the next exit. When you see the sign above, you:
  A. Move to the right lane to exit.
  B. Move to the left lane to exit.
  C. Stay in your lane.
  D. Say, “Exit 32? You’re sure this time? Who taught you to read a map anyway - Homer Simpson?”

  Answer: Prepare for an exit ramp coming up on your left. Your clue: the small panel indicating the exit number. It’s on the top left of the larger sing for left-hand exits and the top right for right hand ones.

- Entering a construction zone, you come upon the barricade above. Without looking at the edge lines, directional arrows, or even the lineup of orange boards, you know you should:
  A. Drive to the left of the barricade.
  B. Drive to the right of the barricade.
  C. Call your boss on the car phone because your bound to be late for work.
  D. Keep your eyes peeled for construction workers with their shirts off, posing for Diet Coke commercials.

  Answer: The diagonal stripes on construction barricades slant down toward the correct lane - in this case, the right.
**Aedes grossbecki** Dyar and Knab

By: Dr. Wayne J. Crans, Rutgers University

<table>
<thead>
<tr>
<th>Subgenus: Ochlerotatus</th>
<th>Abdominal Hairs (Segments III-VI): 2-2-2-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Life Cycle: Univoltine Northern Aedes</td>
<td>Comb Scales: Patch</td>
</tr>
<tr>
<td>Typical Habitat: Flooded Woodlands</td>
<td>Siphon</td>
</tr>
<tr>
<td>Larvae Present: Early Spring</td>
<td>Index: 3.5</td>
</tr>
<tr>
<td>Head Hairs</td>
<td>Tuft: Large, multiple</td>
</tr>
<tr>
<td>Upper: Triple (Occasionally 2 or 4 branched)</td>
<td>Pecten: Evenly spaced</td>
</tr>
<tr>
<td>Lower: Double (Occasionally triple)</td>
<td>Anal Segment</td>
</tr>
<tr>
<td>Antennas</td>
<td>Saddle: Incomplete</td>
</tr>
<tr>
<td>Length: Nearly half as long as head</td>
<td>Precratal tufts: 3-5</td>
</tr>
<tr>
<td>Tuft: Inserted at middle of shaft</td>
<td>Other: Spiculated saddle</td>
</tr>
</tbody>
</table>

**GEOGRAPHIC DISTRIBUTION**

*Aedes grossbecki* is recognized as a mosquito of the southeastern United States, but the species is fairly well distributed in New Jersey. The mosquito occurs at low levels throughout the more southern counties of the state during the early Spring and larvae have been collected as far north as Morris County. Collection records from New York State show that the distribution of this species extends beyond the New Jersey border. In all probability, *Ae. grossbecki* exists at very low levels in all but the most northern counties of New Jersey.

**SEASONAL DISTRIBUTION**

*Aedes grossbecki* is one of the earliest mosquitoes to hatch from overwintering eggs. Development is rapid, considering the cold water that is present in the early Spring. In southern New Jersey, the larvae reach 3rd instar during the middle of March and pupate during the 1st or 2nd week of April. In the northern range of its distribution, the larvae hatch with *Aedes excrucians* where both species reach 3rd instar in early April and pupate during the 3rd week of the month. *Aedes grossbecki* is on the wing before most mosquito control agencies put out their light traps, however, the species persists until early summer and is usually represented in low numbers in trap collections during May and June.

**LARVAL HABITAT**

The larvae of *Ae. grossbecki* are most common in flooded woodlands where mature Red Maple, Sweet Gum Oak and Beech are the dominant trees. In southern New Jersey, Holly replaces Beech as an indicator and the larvae frequently occur in borrow pits where sand has been extracted for land fill. Cat Briar is a common plant at both latitudes. Decomposing leaves add tannins to the aquatic habitat and in most cases, habitat water is so dark that a white dipper submerged more than 2 ft below the surface cannot be clearly detected.

**COMMON ASSOCIATE SPECIES**

*Ae. canadensis, Ae. sticticus, Ae. excrucians*

**LARVAL COLLECTION**

*Aedes grossbecki* larvae are easy to locate in southern New Jersey where the only associate species in flooded woodlands are *Aedes canadensis* and *Aedes sticticus*. The *Ae. grossbecki* larvae are rarely numerous but stand out because of their larger size. Placing the dipper below the surface of the pool provides a white background to selectively capture the larger specimens. The obvious size difference provides near 100% accuracy in the selective collection of this species. In the more northern latitudes, *Ae. grossbecki* may be mixed with *Ae. excrucians*, a larva of similar size. Selective collection requires cursory examination of siphon length, a process that can demand considerable effort under field conditions. If the specimens are brought back to the laboratory and placed into a shallow pan, the species can easily be separated on the basis of behavior. *Ae. excrucians* larvae lie flat on the bottom when they are resting below the surface. *Aedes grossbecki* larvae stand on their heads with the air tube pointing straight up.

**LARVAL IDENTIFICATION**

The larvae of *Ae. grossbecki* can be confirmed in living specimens with minimal difficulty. The head hair formula of Upper (3) and Lower (2) is relatively constant and unlike other larvae collected during the early season.

April, 1996
Both *Ae. canadensis* and *Ae. sticticus* possess multiple upper head hairs and do not approach the size of the larger *Ae. grossbecki* at this time of year. Confirmation of the identification can be made by examining the posterior margin of the saddle. *Aedes grossbecki* has a spiculate saddle and small teeth are quite apparent along the margin if the specimen is placed against a white background with the siphon directed nearly upright. The small teeth give the margin of the saddle a saw-toothed effect. The head hair formula and spiculated saddle separate *Ae. grossbecki* from all but aberrant *Aedes stimulans*, a species that could conceivably overlap *Ae. grossbecki* in the northernmost portion of its range.

**REPRESENTATIVE COLLECTION RECORDS**

Northern New Jersey
Location: South Brunswick, Middlesex Co.
Date: April 8

Habitat: Flooded Woodland near intersection of Broadway and Friendship off Rt. 130 South
Instar: Early 3rd

Southern New Jersey
Location: Villas, Cape May Co.
Date: April 7
Habitat: Deep Borrow Pit
Instar: 4th

**IMPORTANCE**

*Aedes grossbecki* has been described as a persistent biter but the species rarely occurs in high enough numbers to be considered a nuisance species. Its early season distribution, affinity for remote wooded habitats and spotty distribution, however, render the mosquito as a minor pest species in New Jersey.

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**STATE MOSQUITO CONTROL COMMISSION UPDATE**

The State Mosquito Control Commission will, with the cooperation of the State Department of Health and Dr. Wayne Crans, director of the state-funded Vector Surveillance Program, expand the vector surveillance efforts beginning July 1, 1996. As a result of the recent increase in the commission’s operating budget, funding for the program will be increased to allow Dr. Cran’s staff to include a number of other mosquito species, in addition to *Culiseta melanura*, in their weekly vector surveillance collections.

In addition, the Department of Health has agreed to establish a Polymerase Chain Reaction (PCR) technique in its public health laboratories for the detection of Eastern Equine Encephalitis virus (EEEV), under the terms of an ongoing Memorandum of Agreement with the commission. The PCR procedures will be used along with the department’s standard Immunofluorescent Assay (IFA) for the testing of mosquito pools.

Under the terms of the Agreement, the Department of Health will test up to 1,000 separate mosquito pools for EEEV, annually, employing both PCR and IFA techniques.

More good news!! As many of you will recall the loss of the state-funded Airspray Technology Project at Headlee Laboratories a number of years ago created a void regarding the State Mosquito Airspray Program’s ability to be able to calibrate and monitor state aircraft and ground equipment insecticide applications. The commission has received state-bid quotes from two companies willing to provide technical services (droplet size determinations, calibration of aircraft and ground equipment and biological monitoring of targeted species) during the current mosquito season. These services will restore a major component to the state’s mosquito control program.

Lastly, a new piece of equipment has been added to the commission’s inventory list. The commission recently purchased a new John Deere 6x4 “Gator” ATV and trailer. The machine is currently awaiting assignment to the Monmouth County Mosquito Extermination Commission for the county’s use in its water management and surveillance efforts.

*Dr. Kenneth W. Bruder, Secretary*
*NJ State Mosquito Control Commission*

April, 1996
NEW JERSEY MOSQUITO CONTROL ASSOCIATION, INC

1996 ANNUAL MEETING CRITIQUE

For those of you who attended the Annual Meeting of the NJMCA in March, 1996, please take a moment to complete this critique and offer suggestions for improving our meetings in the future, whether at the existing hotel or at a new site. Your input is valued.

Where applicable: 5=Excellent 4=Very Good 3=Good 2=Fair 1=Poor

**Registration**
- 5 4 3 2 1 Timely arrival of pre-registration information
- 5 4 3 2 1 Packet materials- complete and informative
- 5 4 3 2 1 Problems, if any, solved and corrected

Additional Comments on Registration Process:

**Hotel Accomodations**
- 5 4 3 2 1 Condition of sleeping rooms
- 5 4 3 2 1 Food, dining facilities at hotel
- 5 4 3 2 1 Layout of Meeting Rooms- Sessions easy to find
- 5 4 3 2 1 Seating, lighting and room temperature
- 5 4 3 2 1 Audio visual equipment
- 5 4 3 2 1 Slide preview room

Additional Comments on Hotel/ Meeting Accomodations:

**Program**
- 5 4 3 2 1 Meeting Format (Wed, Thurs and Fri am)
- 5 4 3 2 1 Symposium topics
- 5 4 3 2 1 Topics of current interest
- 5 4 3 2 1 Friday morning session

Future Symposia Suggestions

Additional Comments on Overall Program:

**Special Events**
- 5 4 3 2 1 President’s Reception
- 5 4 3 2 1 Business Luncheon
- 5 4 3 2 1 Exhibitor Breakfast
- 5 4 3 2 1 Banquet and Awards Dinner

Additional Comments on Special Events:

**Companion/Spouse Program**
- 5 4 3 2 1 Preregistration material informative
- 5 4 3 2 1 Selection and price of tours offered

Additional Comments on Companion/ Spouse Program:

OVERALL MEETING COMMENTS SUGGESTIONS:

Please return to: Christine Musa, Warren County Mosquito Commission, P.O. Box 388, Oxford, New Jersey 07823
New Jersey Mosquito Control Association

President
Dr. Thomas Murray, New Jersey State M.C.C.

1st Vice President
Chester Stachecki, Delaware Div. of Fish and Wildlife

2nd Vice President
Dr. Marc Staff, Morris County M.E.C.

Secretary
Bunnie Hajek, Rutgers University, M.R. and C., Ret.

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Christine Musa, Warren County M.E.C.

Executive Committee Members
James McNelly, Cape May County M.E.C.
Martin Chorny, Monmouth County M.E.C.
Wayne Crans, Rutgers University, M.R. and C.
Howard Emerson, Camden County M.E.C.

Newsletter Committee
Wayne J. Crans
Bunnie Hajek
Michael Romanowski
Claudia O'Malley
Lureta Undercuffler
Bill Reinert, Chairman

Send Correspondence To:
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Atlantic County Mosquito Control Unit
Box 719
Northfield, NJ 08225
Phone: (609) 645-5948
FAX: (609) 645-5873