

MINUTES OF THE 18TH ANNUAL MEETING OF THE AMERICAN MOSQUITO CONTROL ASSOCIATION

GALVESTON, TEXAS, MARCH 4-7, 1962

RECORDED AND REPORTED BY ERNESTINE B. THURMAN

The annual meeting of the Board of Directors of the American Mosquito Control Association was convened at the Hotel Galvez, Galveston, Texas, at 9:15 a.m., March 4, 1962, with President William E. Bickley presiding. Members of the Board present were: A. F. Geib, President-Elect; D. W. Micks, Vice President; D. M. Jobbins, Past President (1960), by proxy (L. W. Smith); A. D. Hess, Past President (1959); T. G. Raley, Executive Secretary; L. W. Smith, Treasurer; Ernestine B. Thurman, Recording Secretary; and Regional Directors: R. W. Bunn, Southeast Central, by proxy (Helen Sollers); Vernon Conant, North Atlantic; J. A. Mulrennan, South Atlantic; C. F. Scheel, Northeast Central; H. R. Greenfield, South Pacific; C. M. Gjullin, North Pacific; O. P. Breland, Southeast Central; J. E. Graham, Northwest Central; A. W. A. Brown, Canada; and Luis Vargas, Mexico, Central and South America. Twenty-two committeemen and other members of AMCA were also present.

President Bickley opened the meeting with the roll call, noting a perfect attendance of the members of the Board. Letters were presented and accepted designating the following proxies: L. W. Smith for D. M. Jobbins and Helen Sollers for R. W. Bunn.

The minutes of the 17th Annual Meeting of AMCA (Anaheim, California) were presented as published in *Mosquito News*, 1961, Vol. 21, No. 2, pp. 144-160. J. A. Mulrennan moved for approval of the minutes as published; C. F. Scheel seconded; carried.

President Bickley announced that the composition of the Resolutions Committee remained as published (*Mosquito News*, 1961, 21:158): J. H. Hughes, Chair-

man; O. P. Breland, E. C. Robinson and J. C. McNeill, IV.

The President submitted his annual report. (See Attachment #1). J. A. Mulrennan moved for acceptance of the report. H. R. Greenfield seconded; carried. Reports by other officers and committee chairmen were presented.

Nominating Committee (Attachment #2)

L. W. Smith presented the slate of nominees (proxy for D. M. Jobbins), as had been shown on the ballot mailed earlier. T. G. Raley explained the procedure which was followed in submitting the Association's first mail ballot and the confusion involved with the return of the ballots. A majority of the ballot envelopes held correspondence of various matters of AMCA, with or without the ballot. President Bickley had authorized a special committee to open the envelopes, prior to the meeting of the Board, and to remove the extraneous materials. J. A. Mulrennan moved acceptance of the report by the Nominating Committee; H. R. Greenfield seconded; carried. J. A. Mulrennan recommended revising the current procedures by sending the ballot with two envelopes, the ballot in its designated envelope to be enclosed and mailed in the second envelope along with other association correspondence.

T. G. Raley asked for an administrative decision on whether Good Neighbors were members in good standing or were subscribers. J. A. Mulrennan moved that individuals, regardless of sponsorship, be considered as members only when they have submitted an application for membership and had been duly elected; A. D. Hess seconded; carried. President Bickley appointed the Recording Secretary and the

Associate Editor (Bibliography) to assist the Executive Secretary in tallying the ballots.

Treasurer's Report (Attachments #3 and #3a)

L. S. Smith reported that the Auditor's Report had been mailed to the members of the Board. J. A. Mulrennan moved acceptance of the report; H. R. Greenfield seconded; carried. Mr. Smith announced that an annual contract for the clerical services rendered in the office of the Executive Secretary would be needed to comply with Federal Regulations governing tax exemption for a non-profit organization. President Bickley instructed the Treasurer and the Executive Secretary to write the contract as needed.

Finance and Policy Council (Attachment #4)

C. F. Scheel presented tabulations of receipts and disbursements of the Association from 1958 through 1962 substantiating his recommendation for an increase in dues and the establishment of a full-time position of Executive Secretary. President Bickley appointed an *ad hoc* committee to explore ways and means of increasing dues and subscriptions and to report to the Board. The committee membership: C. F. Scheel, Chairman; A. F. Geib; A. W. A. Brown; and A. D. Hess. J. A. Mulrennan moved acceptance of the report of the Finance and Policy Council; H. R. Greenfield seconded; carried.

Report on Mosquito News

(a) *Editor*: D. L. Collins (Attachment #5) reported a backlog of manuscripts for approximately two issues (six months). He emphasized that economy of production requires economy of words, hence the need for greater care on the part of the author in preparing and editing his manuscript. The Editor commended the Boyd Printing Co. for its cooperativeness and efficiency in printing and distributing *Mosquito News*. C. L. Scheel moved acceptance of the report; A. F. Geib seconded; carried.

A. D. Hess suggested raising the cost

of page-plates to \$15.00. L. Vargas suggested that the Editor publish the date of receiving a manuscript, and publish the names of the Honorary Members of AMCA following the listing of Officers and Regional Directors in *Mosquito News*.

(b) *Advertising Manager*: F. P. Creadon (Attachment #6)

F. P. Creadon reported on a comparative study which showed that *Mosquito News* carried about four times as many advertisements as other entomological journals; that the page-prices compared favorably; and an increase in page-cost for advertising was not necessary at this time. An increase in the number of advertisers would be helpful. C. F. Scheel moved acceptance of the report; A. F. Geib seconded; carried.

(c) *Associate Editor — Bibliography*: Helen Sollers

Helen Sollers reported exchanges of *Mosquito News* for a wide variety of journals in many countries. Currently there is a need for greater exchange for Chinese journals. D. L. Collins suggested that the current \$20.00 honorarium for Miss Sollers be increased.

(d) *Associate Editor—Articles*: W. C. McDuffie

W. C. McDuffie urged that all manuscripts be edited by the author's agency prior to submission to *Mosquito News*, a practice which is followed by Federal agencies and some universities. He commended D. L. Collins for the detailed consideration given to all manuscripts.

(e) *Associate Editor—News & Notes*: A. W. Morrill, Jr.

A. W. Morrill, Jr., urged members to submit informal notes and newsy reports. He expressed his appreciation for the cooperation he has had.

(f) *Committee on Publication*: K. L. Knight, Chairman, by proxy (D. L. Collins)

D. L. Collins presented the proposal from H. F. Gray that AMCA accept the

responsibility of revising Herms & Gray, *Mosquito Control*. The proposal was declined.

Local Arrangements Committee

C. A. Vieser reported an anticipated registration of 300 plus 28 exhibitors. The printing of the programs was financed by advertising. J. A. Mulrennan moved acceptance of the report; H. R. Greenfield seconded; carried.

Program Committee

D. W. Micks presented a copy of the program, noting a minimum of concurrent sessions. J. A. Mulrennan moved acceptance of the report with commendation to the Arrangements Committee for the excellent planning on accommodations, program, and demonstrations; H. R. Greenfield seconded; carried.

Bylaws Committee (Attachment #7)

A. J. Rogers presented amendments to the Bylaws as recommended by the Committee. Each amendment was considered separately and approved in the format shown in Attachment #7.

A. F. Geib suggested the Bylaws be amended further to delete the \$5.00 stipulated as annual dues and insert "... the amount of dues as recommended by the Board of Directors and approved by $\frac{3}{4}$ of the members voting at a business meeting. . . ."

Miscellaneous Publications

T. G. Raley reporting for C. T. Williamson, noted that Bulletins #1 and #3 and issues now out of print will be reproduced in lots of 100. Sales of Bulletin #4 will be encouraged through advertising in *Mosquito News* (March 1962).

Legislative Committee (Attachments # 8 and #8a)

T. W. Miller recommended that AMCA support H.R. 6403 (Downing) and H.R. 2927 (Rivers) and oppose H.R. 4668 (Dingell). J. A. Mulrennan moved acceptance of the report; L. W. Smith, seconded; carried. L. Vargas urged AMCA to be

active in the investigation of such bills and to take definite stands on legislation affecting programs in world health inasmuch as other countries are following standards adopted by the United States.

Research & Development (Attachment #9)

A. W. A. Brown moved acceptance of the report as written on insecticide resistance in mosquitoes; A. F. Geib seconded; carried. L. Vargas urged AMCA to publish articles on resistance in all arthropods, not restricting the subject to mosquitoes.

Public Relations (Attachment #10)

W. W. Warner moved acceptance of the report of the Committee, asking that the President of AMCA each year advise the chairman of the Committee of the expected accomplishments during the year; J. A. Mulrennan seconded; carried.

Membership (Attachment #11)

A. W. Buzicky reported an increase of five in membership for the year; however, a much larger number should be evident in next year's report based upon the contacts made during 1961 and 1962. J. A. Mulrennan moved acceptance of the report; H. R. Greenfield seconded; carried.

International Exchange & Good Neighbor Club

Ernestine Thurman presented a preliminary report showing that 94 of the current Good Neighbors had been sponsored, leaving 13 yet to be sponsored. Mrs. Thurman expressed appreciation for the secretarial assistance rendered by the office of the Executive Secretary. E. B. Thurman moved acceptance of the report; J. A. Mulrennan seconded; carried.

Special Committee on Affiliation with AIBS (Attachment #12)

W. C. McDuffie reported on a study made to evaluate the advantages of affiliation with the American Institute of Biological Sciences and the costs involved with

the affiliation. J. A. Mulrennan moved acceptance of the report with further consideration to be taken made by the 1962 Board; D. W. Micks seconded; carried.

Ad Hoc Committee on Increasing Revenue

C. F. Scheel reiterated the need for a full-time position of Executive Secretary and an increase in revenue for the Association to accomplish this. The Committee recommended an increase in annual dues and subscriptions to \$8.00; increase in cost of reprints, extra pages, and single issues; and an increase in the cost of life membership. January 1, 1963, was recommended as the effective date for the increases. J. A. Mulrennan moved acceptance of the report and moved that the members in good standing attending the annual meeting be invited to vote on the increase of dues to \$8.00; C. M. Gjullin seconded; carried. Helen Sollers suggested that the Good Neighbor subscriptions be kept at \$5.00. A. W. Morrill recommended that the Good Neighbors subscriptions be raised to \$8.00 and the Good Neighbors be invited to complete applications for full membership regardless of how the dues were paid.

Future Meetings

T. G. Raley announced that invitations had been received from four states; New Jersey, Illinois, Florida, and Georgia. J. A. Mulrennan moved that the Board recommend to the new Board the acceptance of the invitation from New Jersey for 1963 with consideration for future meetings in Illinois (1964), Florida (1965), and Georgia (1966); A. F. Geib seconded; carried.

Honorary Membership

A. D. Hess moved that the endorsement presented by President Bickley for the election of Dr. Fred C. Bishopp to Hon-

orary Membership be accepted; J. A. Mulrennan seconded; carried.

Report of Election of Officers

T. G. Raley presented the following tally of ballots:

President: A. F. Geib, 373; 18 votes divided among 9 candidates; 22 abstaining.

President Elect: D. W. Micks, 358; 2 votes divided between 2 other candidates; 14 abstaining.

Vice-President: J. A. Mulrennan, 403; 6 votes divided among 5 other candidates; 4 abstaining.

Recording Secretary: Ernestine B. Thurman, 404; 2 votes divided between 2 other candidates; 7 abstaining.

Regional Directors who had been elected by mail ballot in their respective regions were:

Southeast Central Region—Helen Sollers

South Atlantic Region—G. T. Carmichael

North Pacific Region—R. F. Harwood

Northwest Central Region—G. C. Collett

Mexico, the Caribbean, Central & South America—O. P. Forattini.

New Business

T. G. Raley announced that the Peace Corps had contacted his office for possible Association contacts. He had supplied the names and addresses of the secretaries of AMCA and the State Associations.

J. A. Mulrennan recommended that the President appoint two members to assist the Executive Secretary in tallying the ballots a day prior to the meeting of the Board.

D. L. Collins suggested that scrolls of membership be presented to Honorary and Life Members and to the members in good standing.

Adjournment: 4:30 p.m.

PRELIMINARY BUSINESS MEETING—AMERICAN MOSQUITO CONTROL ASSOCIATION

Hotel Galvez, Galveston, Texas, March 6, 1962; 9:54 a.m.

The preliminary business meeting of the Association was called to order by President W. E. Bickley who reported that all the members of the Board of Directors were present, two being represented by proxies. He invited the members of the Association to submit resolutions to the Resolutions Committee: J. H. Hughes, Chairman; O. P. Breland; E. C. Robinson; and J. C. McNeill, IV.

President Bickley announced the names of the officers elected by the Association's first mail ballot:

President—A. F. Geib

President-Elect—D. W. Micks

Vice President—J. A. Mulrennan

Recording Secretary—Ernestine B. Thurman

Regional Directors elected by mail ballot in their respective Regions were:

Southeast Central Region—Helen Sollers

South Atlantic Region—G. T. Carmichael

North Pacific Region—R. F. Harwood

Northwest Central Region—G. C. Collett

Mexico, the Caribbean, Central & South America—O. P. Forattini.

President Bickley requested all authors to submit manuscripts to the Editor of *Mosquito News* with a covering letter, not to hand a manuscript casually to the Editor.

In closing the meeting, President Bickley commended the exhibitors for their excellent displays which were of great educational value to the members and guests of the Association. He urged all members to attend the demonstration of equipment immediately following the close of the preliminary business meeting.

Adjourned: 10:40 a.m.

GENERAL BUSINESS MEETING—AMERICAN MOSQUITO CONTROL ASSOCIATION

Hotel Galvez, Galveston, Texas, March 6, 1962; 4:15 p.m.

The general business meeting of the Association was called to order by President W. E. Bickley who reported that the minutes of the 17th Annual Meeting had been approved by the Board of Directors as published [*Mosquito News*, 1961, 21 (2):144-160]. In presenting the President's annual report (Attachment #1), Dr. Bickley spoke of the progress which had been made and the bright outlook for the future. He commended the officers, committee members, editorial staff, and members for their cooperation and diligent endeavors in Association affairs.

President Bickley noted that the actions taken by the Board of Directors would be published in detail in *Mosquito News* and that only brief reports would be given by members and committee chairmen. A. D. Hess moved that the actions taken by the Board of Directors be approved; F. C. Bishopp seconded; carried.

L. W. Smith, Treasurer, reported that the Auditor's Report had been accepted by the Directors; that the Association was in good financial standing but that the financial outlook was dim due to increased costs and volume supported by inadequate dues.

D. L. Collins, Editor of *Mosquito News* listed ways by which *Mosquito News* could be made more effective:

1. Increasing the budget for printing more pages per issue;
2. Author's presenting concise manuscripts;
3. Pre-editing of manuscripts by the author's agency;
4. Charging the author \$20.00 per page for all over 6 printed pages;
5. Members submitting pertinent photographs and illustrations; and
6. Members submitting materials to the five Associate Editors:

Reviews & Abstracts—Helen L. T. Durkee

Articles—W. C. McDuffie

Bibliography—Helen Sollers

News & Notes—A. W. Morrill, Jr.

Operational Notes—B. H. Brockway

F. P. Creadon expressed his appreciation for the excellent cooperation he had received as Advertising Manager for *Mosquito News*.

In the absence of K. L. Knight, President Bickley reported that the Board had voted not to accept the kind offer from I. F. Gray which would have given AMCA the pleasure and responsibility for revising Herms and Gray, *Mosquito Control*, as well as the profit from the endeavor.

President Bickley expressed the appreciation of the Association to the Local Arrangements and Program Committees for the well-planned and enjoyable meeting.

Brief reports were given by T. W. Miller, Chairman of Legislation Committee; A. W. A. Brown, Chairman of Research & Development Committee; W. W. Varner, Chairman of Public Relations Committee; A. W. Buzicky, Chairman of Membership Committee; and Ernestine B. Thurman, Chairman of International Exchange & Good Neighbor Club. In the latter, 117 Good Neighbors were reported as having been sponsored for the year, with 150 candidates awaiting sponsors.

T. W. Miller moved that Honorary Membership for Fred C. Bishopp be approved as recommended by the Board; Helen Sollers seconded; carried by unanimous acclamation.

R. L. Vannote, National Advisor, presented a report from the National Mosquito Control—Fish & Wildlife Management Coordination Committee (Attachment #13). Mr. Vannote reviewed the duties and functions of the National Advisor and expressed his desire to withdraw as National Advisor. President Bickley presented a scroll to Mr. Vannote acknowledging the contributions he had made to

the Association as National Advisor. L. W. Smith moved acceptance of the report of the National Advisor; F. P. Creadon seconded; carried.

A. J. Rogers presented the amendments to the Bylaws as considered and approved by the Board and moved acceptance; J. A. Mulrennan seconded; carried.

T. G. Raley, Executive Secretary, in presenting his report asked the members to advise the office of the Executive Secretary immediately of all changes of address, furnishing both the old and new addresses as far in advance of a move as possible.

J. H. Hughes presented six resolutions (Attachment #15).

In concluding the meeting, President Bickley invited Past Presidents to escort the newly elected officers to the rostrum to be installed. J. A. Mulrennan, Vice President, was escorted by L. W. Smith and A. D. Hess; D. W. Micks, President-Elect, by R. L. Vannote; and A. F. Geib, President, by F. C. Bishopp and R. E. Dorer. Ernestine B. Thurman, re-elected Recording Secretary, was introduced from the rostrum.

In receiving the gavel, President Geib congratulated Past President Bickley on a job well done. President Geib spoke of the renowned position which AMCA has attained as a clearing house, a voice in mosquito control which is heard throughout the United States and the countries of the world. He spoke of the groups within the Association who have diverse interests in the broad field of mosquito control and the need for these groups to continue to work together toward the goals of the Association.

President Geib recognized the need for a concerted effort to enhance the effectiveness of the Association in his presentation of the recommendations of the Board (Attachment 16), including the increase in costs of reprints and single issues; increase in the cost of a Life Membership to \$150.00; and the increase in dues and subscriptions to \$8.00. T. W. Miller moved

confirmation of the recommendations made by the Board; A. D. Hess seconded; unanimously carried as a vote of confi-

dence in the administration and the full participation of the Board.

Adjourned: 5:40 p.m.

MEETING OF BOARD OF DIRECTORS, AMERICAN MOSQUITO CONTROL ASSOCIATION
Hotel Galvez, Galveston, Texas, March 7, 1962; 3:05 p.m.

The first meeting of the 1962 Board of Directors of AMCA was convened at the Hotel Galvez, Galveston, Texas, March 7, 1962, at 3:05 p.m., with President A. F. Geib presiding. Other members of the Board present were: D. W. Micks, President-Elect; J. A. Mulrennan, Vice President; W. E. Bickley, Past President (1961); L. W. Smith, Treasurer; T. G. Raley, Executive Secretary; Ernestine B. Thurman, Recording Secretary; and Regional Directors: Helen Sollers, Southeast Central; Vernon Conant, North Atlantic; G. T. Carmichael, South Atlantic; C. F. Scheel, Northeast Central; H. R. Greenfield, South Pacific, by proxy (E. C. Robinson); O. P. Breland, Southwest Central; G. C. Collett, Northwest Central; A. W. A. Brown, Canada; and O. P. Forattini, Mexico, the Caribbean, Central & South America, by proxy (L. Vargas). R. F. Harwood, North Pacific, was the only Regional Director not present. Other members present included: D. L. Collins, Editor; R. L. Vannote, National Advisor, and C. A. Vieser.

President Geib presented a listing of chairmen and members of committees (Attachment #17). J. A. Mulrennan moved acceptance of the listing; O. P. Breland seconded; carried.

D. L. Collins urged that AMCA participate in the Fourth National Aircraft Conference, such being helpful in the re-editing of Bulletin #1, and assist with the publication of the proceedings of the conference.

R. L. Vannote spoke again of his desire to withdraw as National Advisor and that he would comply with the request of President Geib to serve for one more year.

L. W. Smith moved that D. L. Collins be appointed Editor of *Mosquito News* and that the appointment carry an accom-

panying letter of commendation for D. Collins signed by President Geib addressed to Dr. Hugh Flick; O. P. Breland seconded; carried.

W. E. Bickley moved that R. L. Vannote be designated as the representative from AMCA to the Wildlife Coordination Committee; J. A. Mulrennan seconded; carried. Mr. Vannote reported that the Wildlife Coordination Committee wished AMCA to match expense funds for printing the "Coordinated Control" bulletin, at \$500.00 rather than at \$250.00 which AMCA has contributed.

C. F. Scheel moved acceptance of the budget as presented, including \$1,200.00 on contract to the office of the Executive Secretary; J. A. Mulrennan seconded, commending Mr. Scheel for his very excellent work in matters of the Association; carried.

W. E. Bickley moved to renew the current contract between AMCA and the office of the Executive Secretary; D. W. Micks seconded; carried.

J. A. Mulrennan moved that an honorarium of \$50.00 be included in the budget for secretarial assistance in each of the offices of: Treasurer, Advertising Manager and Editor; E. C. Robinson seconded; carried.

D. W. Micks moved approval of funds for travel for the following to attend the 1963 meeting;

Executive Secretary	—\$350.00
Advertising Manager	— 150.00
Editor	— 50.00
Treasurer	— 50.00

C. F. Scheel seconded; carried.

L. W. Smith requested authority for Harry T. Smith to sign checks for AMCA accounts in the absence of L. W. Smith; A. W. A. Brown moved approval; O. P. Breland seconded; carried.

A. W. A. Brown moved that the paper

presented at the current meeting be published in the June '62 issue of *Mosquito News* under the title of "Galveston Number," that the papers from symposia be published together if sufficiently complete, and that the latter be the responsibility of the Moderator; J. A. Mulrennan seconded; carried. A discussion followed about the use of the tape recordings made during the meeting. It was the consensus that portions of the tapes would be transcribed in the office of a speaker or Moderator who needed the information in editing a presentation.

W. E. Bickley moved that the Board reconsider the feasibility of affiliation with IBS at the next meeting of the Board; A. W. A. Brown seconded; carried.

O. P. Breland moved that A. F. Geib and W. E. Bickley consider the revision of Bulletin #1 and report to the Board at the next meeting; C. F. Scheel seconded; carried.

W. E. Bickley moved that the Board accept the invitation from the New Jersey Mosquito Extermination Association to meet at Haddon Hall, Atlantic City, March 12-15, 1963; Helen Sollers seconded; carried. L. W. Smith reported that the New Jersey Mosquito Extermination Association would handle all costs; collect all fees; arrange all hospitality; and mail copy of the NJMEA Proceedings to each member and subscriber of AMCA. Presi-

dent Geib instructed the Executive Secretary to write accordingly to the Secretary of NJMEA citing the agreement of AMCA. The Chairman of the Program Committee will explain to speakers that all papers will be published in the Proceedings and that all clearances should be obtained in agencies requiring such clearance.

L. Vargas stressed that the history of mosquito control activities should be highlighted during the 1963 meeting, the Fiftieth Anniversary of the NJMEA.

W. E. Bickley moved recommending to the Board concerned that the invitation from the Illinois Mosquito Control Association be accepted for the 1964 meeting to be held in Chicago; O. P. Breland seconded; carried.

W. E. Bickley cited numerous letters of invitation for future meetings of the Association. He moved recommending to the Boards concerned that invitations be accepted from the Florida Anti-Mosquito Association for 1965 and from the Georgia Mosquito Control Association for 1966; A. W. A. Brown seconded; carried. O. P. Breland recommended that attention be given to planned entertainment for the ladies including luncheons, coffees, shopping, and sightseeing tours.

D. M. Micks presented the Association with a check for \$1,500.00 from the Texas Mosquito Control Association.

Adjourned: 4:55 p.m.

ATTACHMENT #1

REPORT OF THE PRESIDENT

to the Board of Directors:

During 1961 the affairs of the Association have been in a healthy condition. The President has been in contact with the majority of committee chairmen on more than one occasion, and he has communicated with the Board of Directors six times with reference to important items, some of which required a vote. The membership has been informed by the President of a few matters through the pages of *Mosquito News*.

The most important event of 1961 was the implementation of the consolidation of

the offices of executive secretary and treasurer. The tremendous increase in work in the office of the executive secretary has been recognized to the extent of a monthly honorarium of \$100. This is totally inadequate and represents simply a token payment. Many members have worked very diligently and have used their resources and the resources of their employers to carry out the activities of the Association. One of the heaviest burdens is that of the editor. Other notably valuable contributions are those made by the advertising manager, the various staff members of

Mosquito News, the editorial board, the chairman of the Membership Committee, and the chairman of the Finance and Policy Council. Without an appreciable increase in dues or some other method of financing the work, the contributions of these individuals and other members are absolutely necessary to the existence of the Association.

One of the accomplishments of the year was the publication of the membership list in the September number of *Mosquito News*. The chairman of the Membership Committee has been particularly aggressive and active in his efforts to maintain an increase of our membership.

Another committee which has been very active is the Committee on Legislation. Much interest has been shown in the Dingell Bill and other proposed pieces of legislation.

The resolution dealing with sewage oxidation lagoons met with considerable response from various groups which are interested in this problem. A considerable number of letters were received from agencies concerned with water pollution thanking the Association for disseminating the information contained in the resolution.

The National Mosquito Control—Fish and Wildlife Management Coordination Committee has published the brochure en-

titled "Coordinated Control." This was supported by our Association in the amount of \$250. It is presumably being distributed by the Secretary of the Committee, Mr. Paul F. Springer, Patuxent Wildlife Research Center, Laurel, Maryland.

The Advertising Committee at the direction of the Advertising Manager was authorized to increase the rates for advertising in *Mosquito News*. (Later the advertising manager, citing comparative figures from other journals, indicated an increase would be made at this time; see p. 189.—Ed.)

An outstanding job has been done by the Committee on Bylaws. Their report represents much hard work and careful thought.

Your President endorses the recommendation of the Committee on Feasibility of AIBS Affiliation.

Following the editorials in the December number of *Mosquito News* which invited comments on the possible change in name there has been very little response.

I wish to thank the officers, directors and all members who have served the Association faithfully during my term of office.

Respectfully submitted,

WILLIAM E. BICKLEY

ATTACHMENT #2

REPORT OF THE NOMINATING COMMITTEE

March 4, 1962

To the President and Board of Directors:

The Nominating Committee, in accordance with instructions, through correspondence and two ballots by mail, arrived at the following single-name slate of candidates for officers of the Association scheduled for election in 1962. Upon confirmation of the candidates' willingness to serve if elected, these names were made known to the Executive Secretary for appropriate action.

The Committee proposes for:

President.....Arthur F. Geib
President-elect.....Don W. Micks

Vice-President.....John A. Mulrennan
Recording Secretary.....

Ernestine B. Thurman

The committee in achieving its objective of single-name recommendations acknowledges the considerable assistance of National Advisor R. L. Vannote in matters of liaison.

The Committee: Glen C. Collett, Richard G. Eads, Gaines W. Eddy, Richard Hayes, Austin W. Morrill, D. G. Petersen, Joseph E. Webb, Jr., J. Melton Williams, Franklin C. Wray, Daniel M. Jobbins, Chairman.

DANIEL M. JOBBINS

ATTACHMENT #3

AMERICAN MOSQUITO CONTROL ASSOCIATION
METUCHEN, NEW JERSEY

SUMMARY OF CASH RECEIPTS AND DISBURSEMENTS
TREASURER'S ACCOUNT,* YEAR ENDED DECEMBER 31, 1961

RECEIPTS	Checking Accounts General Account	Special Publications	Savings Account # 19400
Balance on deposit—January 1, 1961.....	\$ 5,624.50	\$1,121.60	\$4,060.00
Dues and subscriptions.....	\$ 8,931.15		
Advertising	2,813.57		
Back issues	409.65		
Reprints	1,770.61		
Good Neighbor Club.....	860.00		
Bulletins	20.00		
Mailing lists	50.00		
Sale of pins.....	46.56		
Proceedings	32.00		
Special publications		417.50	
Interest credited			143.32
	14,933.54		
	20,558.04	1,539.10	4,203.32
DISBURSEMENTS			
Printing of Mosquito News, reprints and mailing charges	13,297.90		
Office supplies, expenses, etc.....	196.84	25.00	
Postage	468.35		
Fidelity bonds	31.25		
Traveling expenses	600.00		
Examination of Treasurer's records.....	100.00		
Refund to subscriber.....	5.00		
Bank charges	2.17		
Check returned by bank.....	5.00		
Executive Secretary's salary.....	800.00		
Express charges—transfer of records to new office...	215.07		
Postage—Good Neighbor Club.....	12.01		
Joint Mosquito and Wildlife publication.....	250.00		
Membership committee expenses.....	30.85		
Honorarium	250.00		
Proceedings	32.00		
	16,296.44		
Balance December 31, 1961 (on deposit—Common- wealth Bank of Metuchen, Metuchen, New Jersey).....	\$ 4,261.60	\$1,514.10	\$4,203.32

Respectfully submitted, L. W. SMITH, *Treasurer*

* As audited by Nathan Lipman, Certified Public Accountant.

ATTACHMENT #3a

DETAILS OF INCOME FOR 1962 THROUGH MARCH 16, 1962

General Account

Dues	\$3794.05	
Back Issues Mosquito News	50.00	
Reprints	454.82	
Advertising	584.22	
Good Neighbor Club	250.00	
Lapel Pins	64.50	
Proceedings (Texas MCA)	1500.00	
Excess Printing Charges	101.00	\$6798.59

Special Publications Account

Bulletins	102.00	102.00
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Total

\$6900.59

Remitted to Treasurer:

January 24, 1962	\$2753.32
February 19, 1962	1730.68
March 23, 1962	2416.59
	<u>\$6900.59</u>

ATTACHMENT #4

REPORT OF FINANCE AND POLICY COUNCIL, AMCA
Galveston, Texas, 1962

Many members of our official board have had a vital role in nursing the AMCA toward its present status as a medium of importance in the field of mosquito control. The urge toward broadening its horizons and establishing it as an instrument of even greater national and international stature has continued.

Various groups have presented problems in mosquito biology and control which in their opinion were without adequate solution. The need of providing an improved supplier interest and of studying the possibility of introducing new and more comprehensive material for enhancing Association values and added revenue has also been touched upon from time to time. All of these presentations were no doubt advanced with the knowledge that it becomes progressively more difficult to sustain member, subscriber and supplier interest, potential grants-in-aid support and

also to maintain our status among scientific media in this field unless a vigorously pursued effort is made to advance and promote our objectives.

We have been extremely fortunate over the years in having efficient and constructive assistance contributed gratuitously in unlimited measure by the Editor, Treasurer, Executive Secretary, Advertising Manager and others. While this effort had rather simple beginnings it by nature has become steadily more involved, not alone for the individual concerned but as a growing imposition upon the district employer who has graciously but perhaps unintentionally permitted such chores to build up to extracurricular activities of sizeable proportions. All of this gave rise to some speculation toward ways and means of providing for this phase of our activities more independently.

The consolidation of some of the in

reased routine of the Treasurer's and Executive Secretary's offices, where our problem is most acute, has been practically completed. It is hoped that this merger will provide certain economies of operation, but even so, the work of this office is somewhat monumental and has had to have some financial support which at best has been rather meagre. It is the opinion of this Council that another year should be ample to round out the new duties of the Executive Secretary. It is also felt that decisive consideration should be given now to the next step in our goal of providing the basis of setting up for the services of a full-time Executive Secretary.

The salary of a full-time man of acceptable qualifications for this office and one who would be capable of developing and directing the activities of AMCA even on a modest scale as a starter, calls for additional revenue, provision for which should be explored immediately. Since our financial position over the years has

been quite liquid, our cash balances have, for the most part, been adequate to supplement the personal contributions of time, talent and materials to meet Association needs, which have been growing at a fast pace. However, the added income currently provided by increased memberships and other sources will not, in the judgment of the Council, adequately support the operational needs of the Association that presently face us. It is therefore the recommendation of the Council that action be taken at the Galveston session of the Board of Directors to establish the means of providing part of such additional income through increased membership dues and related issues.

Respectfully submitted,

GEORGE CARMICHAEL

A. F. GEIB

DON MICKS

W. E. BICKLEY

T. G. RALEY

LESTER SMITH

CHAS. F. SCHEEL, *Chairman*

ATTACHMENT #5

REPORT OF EDITOR OF MOSQUITO NEWS ON VOLUME 21 (1961)

February 15, 1962

A feature of the *Mosquito News* year has been the increase in interest in the name of our Journal. This has been evidenced by several letters, some of them already published, both for and against changing the name from *Mosquito News*.

An account of any action that is taken at the Annual Meeting in March, 1962 will properly belong to the next Annual Report, or in the Proceedings of the meeting.

With reference to the publication of long papers, all potential contributors are urged to read the resolution of the Governing Board of the Entomological Society of America, which appears on page 264

of the *Bulletin* of that Society, Volume 7, No. 4 for December 1961. The ECA, by the resolution cited, among other points, authorizes the Editor to refuse "duplicating" and "superfluous" material, requires authors to abbreviate lengthy and detailed tabular material, requires the payment of excess publication costs through grants, institutions or private concerns in accordance with definition on page 6 of U. S. Public Health Publication No. 415, 1959, and authorizes "deferring publication of manuscripts as may be necessary." The resolution, further, establishes the cost of each page over 6 at \$20.00 per page.

Mosquito News has been following sub-

stantially the same practices established in this Resolution, but in much more liberal fashion. It is not just a whim of the Editor, but the considered conclusion of thoughtful producers and consumers of scientific and practical periodical literature in all fields, that in order to survive a

journal must be published as economically as possible, and in order to achieve economy of production it must enforce economy of words.

Statistics on Volume 21 of *Mosquito News* follow, comprising a comparison of the past 2 volumes are as follows:

MOSQUITO NEWS

Statistics on Volumes 20 and 21

	No. Printed		No. Pages		Cost	
	Vol. 20	Vol. 21	Vol. 20	Vol. 21	Vol. 20	Vol. 21
March	1,700	1,800	104	96	\$2,453.50	\$2,610.35
June	1,700	1,800	172	116	3,712.57	2,932.94
September	1,700	1,800	124	124	2,986.85	2,977.63
December	1,700	1,800	96	96	2,192.42	2,414.89
	6,800	7,200	496	432	\$11,345.34	\$10,935.81

The reduced number of pages in volume 21 was a result of an attempt to keep within the prescribed budget of \$10,500.00. However, it resulted in an ever-mounting

backlog of manuscripts awaiting publication. It is hoped and anticipated that a more liberal budget will be adopted for the next volume.

ATTACHMENT #6

REPORT ON ADVERTISING IN *Mosquito News*
January 1, 1961 through December 31, 1961

The figures below represent transactions during the calendar year 1961, for advertising in four numbers, Volume 20, number 4, and Volume 21, numbers 1, 2 and 3. (December 1960 and March, June and September 1961).

Receipts	\$2,848.07
Expenses:	
Postage, telephone, telegrams, rate sheets, envelopes	123.25
Honorarium for Stenographer	15.00
	\$138.25

Respectfully submitted,
FRANCIS P. CREADON
Advertising Manager

Number of active accounts	27
Number of Pages of Advertising	69

ATTACHMENT #7

PROPOSED AMENDMENTS TO THE BYLAWS OF THE AMERICAN
MOSQUITO CONTROL ASSOCIATION 1962

Article III. Membership and Dues

Section 1. Classes of membership.—

Amend by adding Section 1., d. as follows:
d. *Emeritus Member.*—*Members retir-*

ing from professional life who shall have been members in good standing of the Association for at least ten (10) consecutive years immediately prior to retiring

shall become emeritus members. Emeritus members shall be exempt from payment of dues, shall receive *Mosquito News*, and be entitled to all privileges enjoyed by members as defined under Article III, Section 1., a.

Article IV. Regional Subdivisions

Section 1. Regions.—Amend Section 1. by striking and substituting the following:

There shall be recognized regions within the territory of the American Mosquito Control Association. The states, countries, and/or territories comprising each such region shall, by the time of the 1964 annual meeting, be listed in this section of the bylaws. Presently recognized and approved regions are: (a) Canada, (b) North Atlantic, (c) South Atlantic, (d) Northeast Central, (e) Southeast Central, (f) Northwest Central, (g) Southwest Central, (h) North Pacific, (i) South Pacific, and (j) Mexico, the Caribbean, Central and South America.

Section 2. Regional Directors.—Amend Section 2. by striking and substituting a. and b. as follows:

a. There shall be a regional director elected from each region on the Board of Directors of the Association for a two-year term, as provided in Article V. Section 1., b. (7), said director not to succeed himself for more than one term. The names of the elected regional directors shall be presented to the regular business meeting of the Association during the annual meeting. It shall be the duty of the director of each region to promote interest in the Association and to assist individuals, groups, and affiliated agencies in the region with matters pertaining to the Association and with local problems concerning mosquitoes and related pests.

b. Nomination and Election of Regional Directors.—The regional directors shall be elected by the members of the region which they represent. The Regional Director during the last year of his two-year term and at least ninety (90) days prior to the annual meeting, shall appoint from the membership of his Region, a Regional

Nominating Committee of three members and designate the Chairman. The Regional Nominating Committee shall make up a ballot containing the names of two or more nominees who have expressed their willingness to accept the nomination and serve as Regional Director if elected. The ballot shall also include at least three blank spaces for write-in candidates by the regional members. To be eligible, write-in candidates for Regional Director also must have expressed their willingness to serve if elected. The Regional Nominating Committee shall send the ballot to all current Regional members whose names shall have been made available to the outgoing Regional Director by the Executive Secretary.

The Regional Nominating Committee, after receiving the marked ballot from the members, shall tabulate the votes and certify to the Executive Secretary prior to the appropriate annual business meeting, the name of the individual receiving the highest number of votes. Should there be a tie vote, the Regional Nominating Committee shall vote off the tie. In the event the office of Regional Director is vacated it shall be filled for the unexpired term by appointment of the Board of Directors.

The new Regional Director shall be advised of his or her election by the Executive Secretary. The newly elected Regional Director shall be expected, during his or her tenure of office, to attend the annual business meetings during the annual meetings and to represent the Region throughout the term of office in all matters pertaining to the Association.

The Regional Nominating Committee shall be reimbursed by the Association for all necessary expenses incurred in the election of the Regional Director. An itemized statement of expenditures shall be submitted to the Executive Secretary and shall be paid subject to his approval.

Article V. Officers of the Association

Section 1. The Board of Directors.—Amend Section 1., a. (2) and (5) and Section 1., c. by striking and substituting the following:

- (2) *The President-Elect.*
 (5) *The Executive Secretary of the Association, who shall be a nonvoting member of the Board.*

c. *Vacancies.*—In case of a vacancy in the office of President and/or President-Elect, the next officer in line would ascend to the office so vacated. Vacancy of any other office, including *Regional Director when required*, shall be filled by appointment by action of the Board of Directors.

Article VI. Powers and Duties of Officers

Section 1. President.—Amend Section 1, f. by deleting the words “standing and special.”

Section 4. Executive Secretary.—Amend Section 4, b. (1), by adding the following: *and to discharge all other clerical duties that may be specifically assigned to the Executive Secretary in other parts of these bylaws.*

Section 7. Board of Directors.—Amend Section 7, d. by striking the words “standing and special” and by adding i., as follows:

i. *The Board of Directors shall appoint for a two-year term the Executive Secretary of the Association. This officer may succeed himself for an indefinite number of terms and will serve at the pleasure of the Board. This provision shall become effective upon its adoption by the membership, provided, however, that the first appointment under this provision shall not be made before the time of expiration of the present term for this office.*

Article VII. Nomination of Officers

Section 2. Duties of the Nominating Committee.—Amend Section 2. by striking and substituting the following:

The Nominating Committee shall submit to the Executive Secretary four (4) months prior to the next annual meeting its nomination or nominations, if not unanimous, for each office to be filled in the ensuing year, *except the office of Regional Director. All nominations, including write-in candidates, shall carry the consent of the nominee and assurance that he will serve if elected.*

Article VIII. Annual Meeting and Election of Officers

Section 2. Election of Officers.—Amend Section 2. by striking and substituting the following:

The Executive Secretary shall prepare a ballot containing the names of the nominees referred to him by the nominating committee and a space for a write-in candidate for each office, which ballot shall be mailed to every member in good standing at least three months prior to the annual meeting. The ballot, in order to qualify for counting, shall be returned by the individual members to the Executive Secretary at latest by the date of the business meeting immediately previous to the annual meeting. The ballots shall be opened and tallied by the Executive Secretary in company of at least two other officers or directors of the Association, and the results of the election shall be presented to the membership during the regular business meeting. All elective officers shall be elected by a plurality of the total votes cast for each office. *The name of the current President-Elect, who automatically ascends to the office of President, shall not appear upon the ballot for election of officers.*

In case of a tie vote for any elective office, except regional director, the election will be decided by majority vote of the members voting at the annual business meeting.

Article IX. Publications

Section 2. Editor and Staff.—Amend by striking and substituting the following:

The Publications Committee shall appoint the editor and other members of his staff with the approval of the Board of Directors.

Article XI. Amendments to Bylaws

Amend by striking Section 1. and substituting Sections 1. and 2., as follows:

Section 1. Report of Bylaws Committee.—All proposals to amend the bylaws shall be submitted to the Executive Secretary or to the Chairman of the Bylaws Committee at least four (4) months prior to the date

of the annual meeting. *The report and recommendations of the Bylaws Committee shall be sent to the members of the Board of Directors at least sixty (60) days prior to the annual meeting, and the Executive Secretary shall mail copies of the report to each member of the Association at least thirty (30) days prior to the annual meeting.*

Section 2. Amendments to Bylaws.—These bylaws may be amended at any annual meeting of the Association by a two-thirds vote of members present. These bylaws may also be amended at any regular business session of the Association without previous notice by three-fourths majority vote of the membership.

ATTACHMENT #8

REPORT OF LEGISLATIVE COMMITTEE ACTIVITIES FOR THE YEAR 1961-1962

The purpose of this report is to inform the Board of the activities of the legislative committee during the year just ending, and to make information pertaining to certain bills now pending in the Congress available to a succeeding committee.

The primary concern of the legislative committee during the year was to inform itself of bills introduced into the Congress, which would be of interest to the members of AMCA, and to keep the Board of Directors advised of the progress of these bills.

Three such bills were introduced in the first session of the Eighty-seventh Congress. Each of these bills is outlined briefly in a memorandum dated May 18, 1961, from President Bickley to the Board of Directors. A copy of this memorandum, (Attachment #8a) is attached to and should be considered a part of this report along with the bills themselves. Letters from each member of the legislative committee addressed to the Chairman, and outlining their individual feeling on each bill were included with the original copy of

this report. This copy will be directed to the President of the Association for his information.

In general, your legislative committee believes that the Association should support H.R. 6403 by Mr. Downing, and H.R. 2927 by Mr. Rivers, and that H.R. 4668 by Mr. Dingell should be opposed, and so recommends in each case.

It should be pointed out that bills introduced in a first session do not die, and that these three bills are still under consideration by this second session of the Eighty-seventh Congress. In this regard, each author has advised me within the past two weeks of the status of his bill, and this information is attached for each member of the Board.

A complete file covering work of the legislative committee during the year 1961-1962 is in the office of the Committee Chairman, and will be made available to the legislative committee for the ensuing year.

T. W. MILLER, JR.
Chairman, Legislative Committee

ATTACHMENT #8a

MEMORANDUM TO: BOARD OF DIRECTORS

The Chairman of the Legislative Committee, Mr. T. Wayne Miller, Jr., of Fort Myers, Florida, has been very active in keeping track of legislation which may affect mosquito control work. Three bills of some interest have been introduced into the House of Representatives. The Rivers

Bill (H.R. 2927) provides for an appropriation of \$2,800,000 per year to be administered by the Department of Health, Education, and Welfare for the conduct of investigations, studies, demonstrations and research with a view to solving mosquito control problems within the various states

on a cooperative basis. It is provided that \$200,000 will be made available to the Department of Agriculture for the purpose of carrying on investigations of the effects produced on livestock by mosquitoes.

The Downing Bill, which I believe has just been introduced, is very similar to the Rivers Bill except that there is a different provision for allotment of funds to the states. At the moment no decision has been made as to what action our Association should take relative to these bills. We are awaiting developments.

The third bill is the so-called Dingell Bill (H.R. 4668). Here is an unofficial version of the bill.

To provide for advance consultation with the Fish and Wildlife Service and with State wildlife agencies before the beginning of any Federal program involving the use of pesticides or other chemicals designed for mass biological controls.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, that this Act may be cited as the "Chemical Pesticides Coordination Act."

SEC. 2. No officer or agency of the Federal Government shall initiate or provide any financial or other assistance for any program involving the use of any chemical insecticide, herbicide, fungicide, rodenticide, or other chemical for the purpose of eradicating or controlling animal or plant pests until such officer or agency has consulted with the United States Fish and Wildlife Service, and, through such Service, with the head of the agency exercising administration over the wildlife resources of each State to be affected by the program.

SEC. 3. The United States Fish and Wildlife Service shall advise the officers and agencies consulting with it, as required by section 2, of the damage to wildlife resources which might result from any proposed program. Such service shall cooperate with such Federal officers and agencies in developing programs involving the use of chemical

insecticides, herbicides, fungicides, rodenticides, or other methods for the purpose of eradicating or controlling any animal or plant pest, with a view to achieving the results desired while minimizing the undesirable effects of the program on the wildlife resources of the area. In the event any Federal officer or agency shall fail to take any action recommended by the United States Fish and Wildlife Service, such Service shall make a report thereof without delay to the Congress for referral to the appropriate committees.

SEC. 4. The Secretary of the Interior may, by regulations, make exceptions from the application of this Act where, by reason of the limited nature of the program or by reason of the proved harmlessness of the chemical involved, little or no damage to wildlife resources could result from the program.

SEC. 5. Any Federal department or agency, in submitting requests to the Congress for appropriations for programs involving the use of chemical insecticides, herbicides, fungicides, rodenticides, or other chemicals for the eradication or control of any animal or plant pest, shall accompany such request by a full description of the proposed program, including the comments and recommendations of the Fish and Wildlife Service of the Department of the Interior.

SEC. 6. This Act shall take effect on July 1, 1962.

I have talked with both Wayne Miller and Rowland Dorer relative to this bill, and we have the opinion of all other members of the committee. It is our feeling that the AMCA should actively oppose this bill. It is my understanding that the Department of Agriculture, the Public Health Service, the Army, and the National Agricultural Chemicals Association are among the groups which plan to oppose the bill outright.

Unless there is some objection by the Board of Directors, Rowland Dorer, Wayne Miller and I will obtain informa-

on about the status of the bill as it is considered by the Committee on Merchant Marine and Fisheries, and one or more of us will plan to attend hearings and request the opportunity to speak against the bill if that procedure seems appropriate.

We shall welcome any suggestions from you or other members of the Association.

P.S. I have just talked with Bob Vannote, our National Adviser, and he has offered his assistance.

WILLIAM E. BICKLEY
President

ATTACHMENT #9

REPORT OF RESEARCH AND DEVELOPMENT COMMITTEE FOR 1961

This committee was made aware of the need for an assessment of the present extent of insecticide-resistance in mosquitoes and the degree to which remedial insecticides have been introduced to reestablish control. The information gathered this year shows that a true picture can be obtained only if: (i) the species involved is specified, (ii) the type of resistance is distinguished, for example, whether to DDT or to the other chlorinated hydrocarbons such as dieldrin, heptachlor and BHC, and (iii) a standard method of resistance test is used. The most suitable test is the standard WHO method for larvae, for which kits are available; the test for adults may also be used. Adults may be highly resistant when larvae of the brood might not have been so resistant. Interpretation of the LC₅₀ levels obtained require knowledge of the normal levels for each species; if the suspect population is significantly less susceptible than the normal, and has resisted control by the regular application schedule, then it may be called resistant. Populations with intermediate levels, which may be on the way to resistance, are usually called tolerant.

DDT has long been the larvicide and multicide of choice, and DDT-resistance is a definite entity. *Culex pipiens* larvae normally show LC₅₀ levels of 0.01-0.02 p.p.m. DDT. Resistant populations with LC₅₀ levels over 0.5 p.p.m. are now present in 4 out of 5 tested in New York, over 0.2 p.p.m. in 3 out of 20 tested in Massachusetts, over 0.1 p.p.m. in 3 out of 6 tested in New Jersey, over 0.2 p.p.m. in 1 out of 4 tested in Illinois (namely Midlothian Creek, Cook County), and in 1 out of 7

tested in Utah (namely Bountiful near Salt Lake City). Adults at Edgewood, Maryland showed LC₅₀ levels of 6% DDT, indicating resistance. DDT-tolerance and control failures have occasionally been encountered at Toledo, Ohio and Lyons, Ill., but no clear-cut resistance has been detected. Resistance was found lacking in Minnesota and southern Ontario, but has been reported in *C. pipiens* in Oregon. In *C. quinquefasciatus*, DDT-resistance was found in Georgia at Fort Stewart but not at Robbins AFB and in California at Palo Alto and near Los Angeles, with slight tolerance in the San Joaquin valley. It was absent in the Galveston area of Texas.

Culex tarsalis, with a normal LC₅₀ of 0.01-0.03 p.p.m., is now DDT-resistant in most localities in the San Joaquin valley, and some points in the Sacramento valley and Coast area of California. DDT-resistance is now present in at least 3 counties of Oregon (Marion, Lane and Jackson) and 1 of southern Washington (Clarke). An LC₅₀ of 0.1 p.p.m. has been reached in 1 out of 4 Utah populations tested, namely at Salt Lake City itself. This vector species was susceptible at St. Paul, Minnesota.

The other species of *Culex* remain DDT-susceptible, from tests run on *C. salinarius* in 7 states from Massachusetts to Texas, on *C. restuans* in 8 states from New York and Minnesota to Florida, on *C. territans* in Georgia and South Carolina, and on *C. peus* and *C. erythrothorax* in California. However, *C. peus* is DDT-resistant at Oakridge, Oregon.

The larger salt-marsh mosquito, *Aedes*

sollicitans, shows a normal larval LC_{50} of about 0.002 p.p.m. DDT. There is no suspicion of resistance in New York, Connecticut, New Jersey, Maryland or North Carolina. Single instances of transient resistance to control by DDT have occurred in 5 states: New Jersey (Sussex County), Virginia (Langley Field), South Carolina (Yemassee), Louisiana (New Orleans), and Texas (Orange and Corpus Christi); otherwise these states are free of DDT-resistance in *A. sollicitans*. In Florida (1946), however, DDT-resistance is general in salt-marsh mosquitoes, among which *A. taeniorhynchus* is the more abundant. This latter species shows LC_{50} levels of 0.02 p.p.m. in areas where DDT fails to control.

Aedes aegypti, with normal LC_{50} levels of 0.005-0.01 p.p.m. DDT, has shown populations with levels reaching 0.2 and 0.3 p.p.m. in Miami and Key West respectively, but remains DDT-susceptible in Pensacola and New Orleans. Both *Aedes nigromaculis* and *A. dorsalis* (*melanimon*) are DDT-resistant in the San Joaquin valley with levels of 0.3 p.p.m., while both species remain DDT-susceptible in Utah at the normal levels of 0.003 to 0.01 p.p.m. *Aedes vexans* has proved DDT-susceptible in tests in 5 states from Massachusetts to Georgia. With one exception to be mentioned below, all 14 species of *Aedes* and *Culex* recently tested in Canada were DDT-susceptible.

Among anophelines, DDT-resistant populations of *Anopheles quadrimaculatus* have been found near Augusta, Georgia and Edgewood, Maryland, but there is no more than DDT-tolerance in the TVA area. A strongly DDT-resistant population of *An. crucians* was found near Charleston, S. C., showing an LC_{50} of 1.5 p.p.m. in contrast to the normal LC_{50} of about 0.01 p.p.m. for anopheline larvae.

DDT continues to be used as a larvicide in the northeast, even where *Culex pipiens* may be DDT-resistant. Usually 1% DDT in oil is employed, but 5% DDT granules have been applied against *A. sollicitans*. DDT is occasionally supplemented or replaced by pyrethrum larvicide, and in a few localities No. 2 fuel oil is used. Diel-

drin granules have been employed in the Boston area, but dieldrin resistance is now suspected in *C. pipiens* at several points there. The highly DDT-resistant *C. pipiens* at Fort Hamilton, N. Y. show dieldrin LC_{50} levels up to 0.1 p.p.m., indicating increased tolerance. Dieldrin resistance developed in *C. quinquefasciatus* in the San Joaquin valley of California in 1951, and now it is present in this species in the Brazoria, Galveston and Jefferson counties of east Texas. The normal LC_{50} levels of dieldrin for this species are about 0.005 p.p.m.; LC_{50} levels in east Texas ranged from 0.1 to 2.0 p.p.m. Heptachlor and dieldrin granules were introduced to control *C. tarsalis* in Oregon, but now they are rendered ineffective by dieldrin-resistance in at least 2 counties (Marion and Umatilla). Insecticides of the cyclodiene type have not been used against *Aedes nigromaculis* and *dorsalis* in California since the tendency towards resistance to BHC and toxaphene was detected in 1951. The salt-marsh mosquitoes *A. taeniorhynchus* and *A. sollicitans* in Florida are generally resistant to BHC, and some populations are resistant to dieldrin. A population of *A. taeniorhynchus* in Chatham County, Georgia, treated with dieldrin larvicides and DDT mists, has developed resistance to DDT as well as to dieldrin. *A. sollicitans* in Kent County, Delaware, where DDT was replaced by BHC, has developed resistance to BHC. A population of the salt-marsh mosquito *A. cantator* at Moncton, New Brunswick has successively developed resistance to DDT and then to dieldrin; the LC_{50} levels have risen from the normal 0.005 p.p.m. up to 2.5 p.p.m. dieldrin. Heavy applications of cyclodiene insecticides in the rice-growing areas of northwestern Mississippi (Bolivar County) have induced dieldrin-resistance in *Psorophora confinnis* and *P. discolor*; *An. quadrimaculatus* has also become dieldrin-resistant at Cleveland and Mississippi Hills, and in a spot on the border of Georgia and South Carolina.

Whereas DDT could remedy the dieldrin-resistance in *C. quinquefasciatus* in the Galveston area, control in the San

Joquin valley of the 2 species of *Culex* and the 2 pest *Aedes* required the introduction of organophosphorus insecticides such as parathion and malathion, DDT being useful only in the mountain and coast areas. In California the relative coverage by the different insecticides is now as follows: parathion 56%, malathion 20%, DDT 7%, and oils 6%. A population of *C. tarsalis* resistant to malathion (LC₅₀ 0.3 p.p.m.) developed in Fresno County by 1956, but had reverted to susceptibility (LC₅₀ 0.004 p.p.m.) by 1960; meanwhile a malathion-resistant population of *A. nigromaculis* was discovered in Fresno County in 1961 with an LC₅₀ of 0.1 instead of the normal 0.01 p.p.m. Resistance to parathion, a somewhat different entity, has now spread in *A. nigromaculis* from Kings County to include Tulare County, the LC₅₀ levels reaching 0.02 p.p.m. instead of the normal 0.03 p.p.b. In Kern County there is a slight increase in the parathion-tolerance of *C. tarsalis* and *C. quinquefasciatus*, the latter species having shown control failures with malathion. In Florida an increase in malathion-tolerance observed in 1952 in populations of *A. sollicitans* and *A. taeniorhynchus* treated with chlorinated hydrocarbons proved to be transitory and of no general significance. In this state malathion is widely used as an adulticide in fogs, and larviciding is restricted to diesel oil and Paris green granules. Malathion adulticides are now employed in Massachusetts, Maryland, Minnesota, Oregon and Washington. Dibrom has been used as a larvicide in Portland, but in the end either DDT granules or fuel oil were found adequate to handle the situation.

The survey shows that although some fears have not been realized, nevertheless

the number of insecticide-resistant populations of mosquitoes still steadily increases. In a recent questionnaire survey (Odeneal, J. F. Soap San. Chem. 37:103-7. 1961) mosquito resistance to chlorinated hydrocarbons was reported from 24 states, and to organophosphorus insecticides from 5 states (California, Oregon, Utah, Montana and Tennessee). In the case of Oregon, there are general reports of malathion-resistance in *Culex tarsalis* in the Eugene area, and tests of larvae at Oakridge showed an LC₅₀ of 1 p.p.m. malathion.

The committee recommends that those responsible for mosquito abatement find out where they stand with the species in their area by making susceptibility tests; the WHO larval method is the most suitable and a test kit is conveniently available from the Pan American Health Organization (Malaria Eradication), 1501 New Hampshire Avenue, Washington 6, at a price of \$8.50. With this factual background, reference to up-to-date insecticide information such as the summary of Public Health Pesticides which appears annually in the March issue of *Pest Control* will allow a choice to be made of the cheapest and safest insecticide to which the local mosquitoes are still susceptible.

Respectfully submitted,

A. R. BARR
L. D. BEADLE
G. C. COLLETT
D. L. COLLINS
R. A. HEDEEN
R. T. HOLWAY
K. D. QUARTERMAN
A. J. ROGERS
R. C. WALLIS
A. W. A. BROWN, *Chairman*

ATTACHMENT #10

REPORT OF PUBLIC RELATIONS COMMITTEE

The Public Relations Committee functioned through the year through correspondence and presents the following suggestions to the Association.

1. After contacting numerous members, officers and past officers, it was concluded that there exists now no definite policy or mission for this

- committee and discussion is generally confused. Therefore the committee feels that the Board of Directors should establish a definite policy and mission for the committee.
2. That the membership approve, endorse and encourage a policy of using the Association name by members of the Association with News Releases of their own professional activities.
 3. That special emphasis be given news releases that are beneficial; by this is meant that bad mosquito years receive excessive comment and comfortable years often no comment at all.
 4. That consideration be given to formation of a special committee to

secure *Life* magazine coverage for the next Association convention.

5. That consideration be given to the formation of a special committee to investigate the feasibility of providing a World Fair Exhibit at a future date (1964).

Respectfully submitted,

BAILEY B. PEPPER
 ROBERT EVANS
 JOHN A. ROWE
 E. ELWOOD LYNCH
 R. M. BOHART
 GENE R. DEFOLIART
 WILLIAM E. BECKEL
 ALAN STONE
 FRED H. STUTZ
 WILLIAM W. WARNER, *Chairman*

ATTACHMENT #11

REPORT OF MEMBERSHIP COMMITTEE

December 1960—December 1961

The first major mail solicitation following the last annual meeting involved sending 300 letters, each with two application blanks, in May to Directors or Managers of all Mosquito Abatement Districts in the country, urging District membership and greater individual membership within Districts. The committee paid for exhibiting *Mosquito News* at the Combined Periodical Exhibit of the American Library Association at Cleveland, Ohio in July. In August approximately 100 letters were sent to delinquent members urging payment of back dues. In November, letters with enclosed application blanks were sent to Chairmen of Departments of Biology or Entomology of approximately 990 United States universities and colleges suggesting Departmental subscriptions for

Mosquito News and urging staff and student membership. Regional Directors who are automatically members of the Membership Committee, were provided with AMCA letterheads, application blanks, and copies of all solicitation letters. They were urged to follow up these general letters by personal and letter contact in their regions. The following is a brief summary of the membership and subscription status as of December 1961 *Mosquito News* mailing list:

Mailing list December 1960 MN	1,650
Resignations and Cancellations 1961	160
New accounts 1961	165
Mailing list December 1961 MN	1,654

Respectfully submitted,
 A. W. BUZICKY, *Chairman*
 Membership Committee

ATTACHMENT #12

REPORT OF COMMITTEE TO INVESTIGATE POSSIBLE AFFILIATION
WITH THE AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES*Introduction*

As outlined in the Minutes of the Board of Directors at the Mosquito Control Association Meeting on 2 February 1961, President Bickley, by letter of 1 March 1961, requested the special committee named below to investigate the desirability of affiliation with the American Institute of Biological Sciences. On 22 March, the Committee met with Dr. Hiden Cox and Dr. John Olive, Executive Secretary and Principal Assistant of the AIBS respectively, to discuss the role of the AIBS and the various types of memberships that were offered in the event that affiliation was indicated to be desirable.

Role of the AIBS

The AIBS was incorporated in January of 1955 after having been organized in 1948 under the sponsorship of the National Research Council. It is a voluntary association of professional biological organizations and individuals who share a common interest in the life sciences.

The specific objectives are as follows:

- (1) Assistance to biological societies and similar organizations in matters of common concern which can be dealt with most effectively by united action.
- (2) Promotion of unity and effectiveness of effort among all who are devoting themselves to the biological sciences by research, by teaching, or by application of biological data.
- (3) Furthering the relationships of the biological sciences to other sciences and to the arts and industries.
- (4) Cooperation with local, national, and international biological organizations.

The total present membership is estimated to be in excess of 80,000.

Types of Membership

There are two types of group member-

ships available to the AMCA as indicated below:

1. *Member Groups* are non-profit organizations which have a national field of operation concerned with the advancement of the biological sciences.

2. *Affiliate Groups* are local, regional or national non-profit organizations interested in the biological sciences.

Member Societies pay annual dues calculated on the basis of \$1.00 per regular member. Affiliate Societies pay annual dues based upon total membership as follows:

Up to 999 members	—	\$100.00
1000 to 2999 members	—	200.00
3000 and over	—	300.00

Consideration of Whether AMCA Should Become Associated with AIBS

After discussing the role of the AIBS and the advantages of belonging from both the contributing and the receiving viewpoint, *it is the recommendation of this Committee that the American Mosquito Control Association favorably consider an association with the AIBS.*

1. *Benefits for the American Mosquito Control Association*

(a) Makes available the AIBS Bulletin (Members free; Affiliates \$1.00 per year). This quarterly bulletin serves as a central organ for reporting the activities of national and international importance in the biological sciences.

(b) Provides Speakers Bureau Services in making outstanding scientists available to colleges, universities and similar institutions.

(c) Provides assistance for meetings of biological societies.

(d) Maintains national register of scientists.

(e) Provides advisory committees to the National Science Foundation in guidance of grant policies.

(f) Provides membership services such as addressograph to member and affiliate societies at cost, plus postage, printing and redactory services, publications and announcement services.

(g) Furnishes placement services.

(h) Conducts special activities such as surveys, curriculum studies as requested.

(i) Provides a strong and representative voice for those organizations whose functions are closely identified with the biological science. Previously, the inability of the widely separated biological disciplines have not attained national recognition comparable to that of the engineering and physical sciences largely due to their ability to represent themselves collectively. The AIBS, notwithstanding its recent origin, has provided potent representation of the biological sciences both in national scientific and administrative areas.

2. *Benefits of AMCA Association to AIBS*

The representation of AMCA in this group of societies and organizations provides the AIBS with considerable additional coverage and, in turn, supporters for

the scientific, educational, and professional objectives as stated earlier.

If associated what type of membership? It is the recommendation of the Committee that as an initial step, the American Mosquito Control Association should request affiliate membership.

While advantages of being a membership group are considerable and may well be further considered in the future, it is the opinion of the Committee that Affiliate Membership would provide a sound initial step in becoming identified with the AIBS. Although slight additional charges for some of the AIBS services are required for affiliate members as compared to regular members a more realistic view of long term advantages of the two types of membership will be possible when the AMCA has had adequate opportunity to determine which services are of most interest to the membership.

Respectfully,

FRANK G. FAVORITE
WILLIAM C. McDUFFIE
GEORGE L. HUTTON

ATTACHMENT #13

REPORT OF NATIONAL MOSQUITO CONTROL—FISH & WILDLIFE MANAGEMENT COORDINATION COMMITTEE

March, 1962

To: *American Mosquito Control Association, Inc.*

Gentlemen:

The National Mosquito Control—Fish & Wildlife Management Coordination Committee was organized in 1959 following a seminar held on this subject in Washington, D. C. in April of that year, and in accordance with the resolution adopted by the delegates in attendance.

The membership of the Committee is indeed national in scope having three members representing mosquito control, all appointed by Federal agencies and our American Association; and the Fish and Wildlife members appointed by the Com-

mission of Fish and Wildlife of the U. S. Department of Interior.

The first function of the Committee was to define its objective and establish both operational and investigative policies. A second function has been the preliminary consideration of a field manual for use of both mosquito control and fish and wildlife workers. Work on this manual is currently under way. Another function has been the investigation of problem areas as indicated on inquiries sent to field agencies in both fields. The Committee urges the use of its facility in the settlement of disputes, rather than that of the public press.

Field investigations have been made by committee members in association with state or local officials. Most notable was a three-state trip during the summer of 1961 visiting the mosquito control-fish and wildlife problem areas or joint projects in the states of Maryland, Delaware and New Jersey.

With the consent of the President, Finance Chairman, and the members of the Board of Directors, Association funds in the amount of \$250.00 were provided to the Committee for use in printing a special release entitled, "Coordinated Control." The release is now available in large numbers and will soon be available to all control districts. This release will

be extremely valuable in its distribution to local wildlife interests.

The Committee is interested in the use of impoundments, properly designed and maintained, for the dual purpose of mosquito control and wildlife management. Investigations are now under way leading to proper design specifications for the guidance of field workers.

It would appear that a seminar on the same subject is in preparation for the area west of the Mississippi for the fall of 1962. Considerable demand has been made for a second Eastern conference.

Respectfully submitted,

ROBERT L. VANNOTE, *Chairman*
AMCA Representative

ATTACHMENT #14

REPORT OF NATIONAL ADVISOR

The duties and the functions of the National Advisor are manifold and vary with the assignments from the officers and service requests from the membership.

During the 1962 fiscal year the President, being in the Washington area, was able to conduct the business of the Association without assistance. The only assignment was with respect to keeping the Nominating Committee on schedule.

The most pleasant part of the National Advisor's duty is that of maintaining contact with many of the field workers and serving as a source of information and encouragement. These associations have

been maintained by letter and personal contact and is one of the important functions of the American Mosquito Control Association.

Due to an unusually heavy work load in 1962, I have advised the President-Elect of my desire to withdraw as National Advisor as of March, 1962. At this time I would like to express to the officers and membership of the Association my appreciation for the privilege of serving in this capacity for so many years. The experience has been rich and rewarding.

ROBERT L. VANNOTE
National Advisor

ATTACHMENT #15

Resolution No. 1

Whereas, during the past year, our Association has lost through death some of its active members and has thus been deprived of their friendship and professional contributions,

Be it resolved that we record our sorrow for this loss and further express our respect by standing in silence for a few moments.

Resolution No. 2

Whereas, the officers and committees of

the American Mosquito Control Association have carried out their duties in a highly commendable manner in conducting the affairs of the Association during the past year and in making arrangements for the present successful meeting,

Be it resolved that the membership express its thanks to them for a job successfully completed.

Resolution No. 3

Whereas, the State of Texas and the

City of Galveston have been most hospitable to the Association and have made our visit here in Texas a memorable occasion,

Be it resolved that the Association express its gratitude to the Governor of Texas and the Mayor of Galveston.

Resolution No. 4

Whereas, the Texas Mosquito Control Association has so successfully sponsored the joint meeting of the two Associations,

Be it resolved that the American Mosquito Control Association express its gratitude to TMCA officers, members, and supporting associates.

Resolution No. 5

Whereas, *Mosquito News* continues to follow the highest standards of professional publication,

Be it resolved that the membership of this Association make known its appreciation to Dr. Donald Collins and other editorial staff members. (Applause).

Resolution No. 6

Whereas, the educational and commercial exhibits at this Joint Meeting of AMCA and TMCA have been so favorably received,

Be it resolved that the Association express its gratitude to the sponsors and committees.

ATTACHMENT #16

REMARKS OF THE INCOMING PRESIDENT

In returning once again to the functioning of the Association, I wish to call to attention that many individuals have given unstintingly of their time and efforts in nursing the American Mosquito Control Association to its present status. This is particularly true of such officers as the Executive Secretary, Editor, National Advisor and Advertising Manager as well as many others. These officers have contributed gratuitously their talents, time and effort to the benefit of the Association and its members. I am sure it is hardly necessary to mention that without their work there would be no American Mosquito Control Association as we know it today.

I believe it timely to point out that even with these functions being so ably carried on without cost to the Association, our financial position, though solvent, is quite inadequate for future growth and expansion; that while our membership and income has continued to grow, so have our expenses, correspondingly.

For some years now, many of the members and officers of the Association have hoped that we would eventually reach a position such that these gratuitous services could, at least to some extent, be paid for,

and thus aid in building a still stronger Association. Hopefully and eventually all such Association costs can be paid for. Exclusive of services, a few details of increasing costs the Association has been experiencing are printing, posting, increasing membership, increasing size of publication, increasing services to membership—all of which increases officers' activities. Nowhere else do members of an Association of this type continue to buy so much for so little. Dues and Journal have been ours for the nominal amount of \$5.00, and this for twenty years or so.

Representing, and on behalf of, the Board of Directors, I wish to announce that we feel the time has now arrived when we should attempt to increase our income, so as to take an initial step toward repayment for some of the gratuitous services we have long enjoyed. The Board recommends that the membership approve an increase of 50% on all Association costs, such as reprints, purchase of single issues of *Mosquito News*, extra pages, Life Membership, along with annual dues of \$8.00 per year to members and subscribers of *Mosquito News*. We estimate such a step

would bring in an added revenue of approximately \$4,000 annually, which would be used as a step toward eventually paying for some of the services now being enjoyed by the members.

In accordance with the Bylaws, it would

require a 75 percent affirmative vote of the members in attendance at a regular meeting. At this time we are asking for a vote on this matter. If approved, any increases would not take effect until January 1, 1963.

ATTACHMENT #17

COMMITTEES—AMERICAN MOSQUITO CONTROL ASSOCIATION 1962

National Advisor: R. L. Vannote

Publication—Mosquito News: K. L. Knight, *Chairman*, L. E. Rozeboom, Harry D. Pratt, E. A. Philen, Gordon E. Smith

Advertising: F. P. Creadon, *Chairman*; John Beidler, Gardner McFarland

Miscellaneous Publications Committee: Robert Hedeem, *Chairman*; C. T. Williamson, Jack Rogers, J. C. McNeill, A. W. Buzicky, Wm. C. McDuffie, Ken Quarterman, Col. R. W. Bunn, Oscar Lopp, L. Colin Curtis, Capt. John Hirst, Glen Collett

Legislation: Wayne Miller, *Chairman*; Bob Armstrong, Herbert Knutson, Ed. Davis, Wm. Bickley
Research and Development: A. W. A. Brown, *Chairman*; D. M. Jobbins, Carroll Smith, Lester Beadle, Don Micks, Robert Metcalf

Finance and Policy Council: Chas. Schuel, *Chairman*; Ted Raley, Lester Smith, Art Geib, Don Micks, John Mulrennan, J. Graham

Committee on Bylaws: Chester Robinson, *Chairman*; Mel Williams, Chris Williamson, Franklin Wray, John Pritchard, George Knowlton

Committee on Public Relations: Bill Warner, *Chair-*

man; Lester Brumbaugh, Wayne Miller, George Thompson, E. S. Hathaway, Fred Stutz, E. E. Lynch

Committee on Membership: A. W. Buzicky, *Chairman*; Pat Nakagawa, Milton Buehler, John Brawley, C. A. Vieser, P. Bruce Brockway, Paul J. Hunt, Lewis Fronk, Robert Armstrong, Don Pletsch, J. J. McLintock

Good Neighbor Committee: Ed Davis, *Chairman*; Roy Fritz, Ed Washburn, Pat Nakagawa, Don Johnson, Brian Hocking, John Stivers, Don Rees
Nominating Committee: Dr. W. E. Bickley, *Chairman*; Chris Williamson, Bob Bartnett, Don Rees, P. J. Gurklis, Otto Hecht, Milt Buehler, Oscar Lopp, Brian Hocking, R. F. Darsie

Program Committee: J. A. Mulrennan, *Chairman*; Bailey Pepper, Wm. Bickley, Rowland Dorer, *Regional Directors*

Resolutions Committee: Rowland Dorer, *Chairman*; George Langford, John Brawley, J. E. Webb, Jr.

Wildlife Committee: Bob Vannote, Art Lindquist, Ken Quarterman

Mr. Robert Hedeem has been appointed Chairman of the Miscellaneous Publications Committee and assigned the task of re-editing Bulletin #1. This bulletin, long out of date, is now hard to come by. Mr. Hedeem has obtained only five copies to be used in the Committee's work. Additional copies will be necessary if the Committee is to accomplish its assignment. Donations or loans of copies of this bulletin should be mailed to Mr. Robert Hedeem, Manager, South Cook County Mosquito Abatement District, P. O. Box 30, Harvey, Illinois, with the understanding that they will be returned to the owner when re-editing is completed.