

## ASSOCIATION NEWS

### AMERICAN MOSQUITO CONTROL ASSOCIATION, INC. 27th ANNUAL MEETING—DENVER

#### MINUTES OF THE BOARD OF DIRECTORS MEETING MARCH 21, 1971

The Board of Directors of the American Mosquito Control Association, Inc. met in regular session in conjunction with the 27th Annual Meeting of the Association at Denver, Colorado, on Sunday, March 21, 1971 in the Denver Room of the Hilton Hotel. President Buzicky called the meeting to order at 9:10 a.m. Board members present were:

A. W. Buzicky, President; A. J. Rogers, President-Elect; Glen Collett, Vice President; George Carmichael, Past President 1969; T. D. Mulhern, Past President 1968; W. D. Murray, Treasurer; T. G. Raley, Executive Secretary; A. S. West, Director, Canada; O. W. Doane, Director, North Atlantic Region; R. W. Lake, Director, Mid-Atlantic Region; E. J. Beidler, Director, South Atlantic Region; P. B. Brockway, Director, North Central Region; L. E. Fronk, Director, West Central Region; G. C. McFarland, Director, South Pacific Region.

Minutes of the business sessions of the 26th Annual Meeting in Portland, Oregon, February 22-25, 1970, were approved.

Most of the business consisted of the reading of the reports of committees, and their approval as read or as amended. (See the numbered attachments.) In addition, the following should be noted.

The Executive Secretary was authorized to dispose of all out of date miscellaneous publications in the Association library at reduced prices and/or by whatever other means available.

The invitation from the New Jersey Mosquito Extermination Association to meet jointly with that organization at Atlantic City, March 11-14, 1975 was accepted by the Board of Directors.

The invitation from the Northeastern Mosquito Control Association to meet

jointly with that organization at Boston in 1976 was also accepted.

G. T. Carmichael indicated that the Louisiana Association would be ready to sponsor another joint meeting at New Orleans in 1978.

T. G. Raley reported on the development of the Year Book into a Directory, and as more recently proposed, into a Resources Bulletin. The suggestion for this publication is that it be issued at approximately three-year intervals. Content will be on all pertinent information relating to the Association and mosquito control throughout the world. A determination on financing and method of publication for the bulletins will be made as more details are available.

A communication from the New Jersey Mosquito Extermination Association was read by President Buzicky. The purpose of the letter was to enlist support from AMCA in avoiding conflicts in annual meeting dates. The New Jersey Association requests consideration for at least two weeks interval between their mid-March meeting and the American convention. The Executive Secretary was instructed to take all steps practical to avoid all meeting conflicts in the future.

The proposed 1971 budget, as modified at the meeting, was adopted. On a roll call vote the recommendations in the Committee Report to appoint a full time Executive Secretary by 1973 was approved. Necessary amendments to the bylaws to implement this proposal had been referred to the Bylaws Committee earlier.

Glenn M. Stokes, Chairman, presented a very comprehensive report for the Membership Committee. A detailed account of all the activities of the Membership Committee, with many suggestions which will be

helpful to future membership committees, is contained in the complete report which is on file.

The Chairman's recommendation that a Student Membership be added to the official list was discussed in detail, after a motion to adopt the proposal was made by J. D. Long and seconded by L. E. Fronk. On a voice vote the President declared the motion was defeated. An insignia design proposed by the Chairman as the official emblem of the Association was referred to the 1971 Board of Directors.

Petitions bearing many more than the required number of signatures were presented nominating Christian T. Williamson to Honorary Membership in the Association. The proposal was unanimously endorsed by the Board of Directors following a motion by T. D. Mulhern, seconded by W. D. Murray.

Mr. Don Johnson offered copies of the Directory of Worldwide Anti-Malaria Programs and a report on "The Continuing Need for DDT in Anti-Malaria Programs," to anyone interested.

A questionnaire on a new project, Open House, USA, being developed by a special committee at Stanford Research Institute was referred to the Executive Secretary for further study.

President Buzicky read a letter from D. J. Pletsch, Director Mexico, Caribbean, Central & South America. The main subject was the results of a canvass of the members in the region on a new, shorter name. The majority expressing an opinion preferred Latin America and Caribbean. A motion was made by G. T. Carmichael to refer this to the Bylaws Committee with an endorsement favoring the name change.

This was seconded by G. C. Collett and approved.

Chairman T. D. Mulhern reported that two other amendments to the bylaws had been referred to the Committee. These were:

1. Transfer the duties of the Recording Secretary to the Executive Secretary and eliminate the office of Recording Secretary.
2. Transfer the duties of the Treasurer to the Executive Secretary and eliminate the office of Treasurer.

Related to these proposed amendments were committee suggestions that administrative procedures be established to assure continuity in the office of the Executive Secretary. An Advisory Committee to accomplish this objective was suggested as one aid in smoothing the transition period.

The recommendations in the Bylaws Committee report (Attachment No. 17) were endorsed by the Board of Directors and referred to the membership meeting on Wednesday morning.

R. L. Vannote, Association Representative to the Mosquito Control-Fish and Wildlife Management Coordination Committee reported on that group's activities in 1970 (Attachment No. 18). A contribution to the Coordination Committee of \$100.00 for administrative expenses was approved by consent. Copies of the revised edition of the bulletin, "Coordinated Mosquito Control," were distributed for review. G. T. Carmichael commented on the joint mosquito control-wildlife meeting scheduled for New Orleans, October 21-23, 1971.

The meeting was adjourned by President Buzicky at 5 p.m.

## MINUTES OF THE GENERAL BUSINESS MEETING

MARCH 24, 1971

President Buzicky called the 27th Annual Meeting to order at 8:35 a.m., Wednesday, March 24, 1971. He gave a brief report on the accomplishments for the past year (Attachment No. 1), and indicated committee chairmen would be called on to summarize particular activities. These reports are in the accompanying attachments.

L. J. Ogden reported for the Local Arrangements Committee. Figures at that time showed a total of 491 registrations, 400 delegates and 91 ladies. There were 22 booths representing 21 commercial organizations. Fourteen of the firms also made extra contributions to the various social events. The Tuesday night dinner show was enjoyed by 390 of the group attending the meeting. The presentation of the complete play, "Cactus Flower," rather than the customary speeches and miscellaneous entertainers was an unusual feature of the banquet. It was an excellent performance, enthusiastically received, as were the musical interludes by local music students who served as waiters at the banquet.

Since amendments to the bylaws had been proposed by the Finance and Policy Committee, President Buzicky called on T. D. Mulhern to present the Bylaws Committee Report.

The first amendment considered was the one proposed by Regional Director D. J. Pletsch to change the present Mexico, Caribbean, Central & South America Region to Latin America and Caribbean Region. This was approved on a motion by T. D. Mulhern and seconded by R. F. Peters.

After a full discussion, a motion was made by T. D. Mulhern to transfer the duties of the Recording Secretary to the Executive Secretary, and eliminate the office of Recording Secretary. This was seconded by G. C. McFarland and approved.

A motion to transfer the duties of the Treasurer to the Executive Secretary and eliminate the office of Treasurer, by Mulhern, seconded by G. T. Carmichael, was defeated.

The report of the Resolutions Committee was adopted on a motion by G. C. McFarland, seconded by W. D. Murray.

Special Resolutions were read by T. D. Mulhern (Attachment No. 19). Special Resolution number one was adopted on a motion by G. C. McFarland, seconded by C. A. Vieser. Special Resolution number two was adopted on a motion by G. C. McFarland, seconded by G. T. Carmichael.

Christian T. Williamson was elected an Honorary Member of the Association following a motion by O. W. Doane, seconded by T. D. Mulhern.

The business conducted by the Board of Directors between the Portland and Denver meetings was approved on a motion by G. T. Carmichael, seconded by R. E. Dorer.

After Executive Secretary Raley reported on the results of the regional and national elections (Attachment No. 20), the 27th business meeting of the American Mosquito Control Association was adjourned.

## MINUTES OF THE BOARD OF DIRECTORS MEETING

MARCH 24, 1971

President Rogers called the meeting to order and asked for a roll call and introduction of new directors. All were present except A. E. Winmill, Canada. Others absent were Treasurer Murray, Past President Carmichael, Directors Stoner and Pletsch.

On a motion by A. W. Buzicky, seconded by L. E. Fronk, Past Regional Director A. S. West was appointed to serve during the meeting for the absent A. E. Winmill. President Rogers outlined his program and objectives for the year (Attachment No. 21) and solicited active support from all members of the Board. In a discussion of his main goal, establishing the Association's position on the use of pesticides, it was the unanimous opinion of the group that the President should speak for the organization at every opportunity.

On business referred from the past Board, action on selecting official insignia for the Association was tabled on a motion by E. J. Beidler, seconded by J. C. Kuschke. The recommendation by the Awards Committee to prepare and give certain awards each year was referred to the new Awards Committee.

The Executive Secretary, T. G. Raley, was appointed to a new term on a motion by L. E. Fronk, seconded by R. W. Lake. Compensation for clerical services in the

Executive Secretary's office was increased from \$400.00 to \$420.00 a month, retroactive to January 1, 1971 following a motion by J. D. Long, seconded by E. J. Beidler.

Future meeting sites as approved at the Board of Directors meeting on March 21, 1971 were endorsed. Travel allowances for attendance at the 1972 meeting in Miami Beach, Florida, of Treasurer, \$350.00, Executive Secretary, \$350.00, Editor, \$200.00 and Advertising Manager \$200.00, were approved on a motion by W. I. Barton, seconded by G. C. Collett.

A request by the Association members who put on the Denver meeting that up to \$500.00 of any surplus from the affair be earmarked for use in the West Central Region to promote mosquito control was approved. It was understood that any use of the funds would be with Board approval for the particular project.

President Rogers read a copy of the letter from the New Jersey Mosquito Extermination Association requesting consideration on avoiding meeting conflicts. They suggested at least two weeks between any AMCA meeting and the Atlantic City mid-March gathering.

Since there was no further business the meeting was adjourned.

## ATTACHMENT NO. 1

Most of the committee reports are abridged from more detailed reports, either by the chairman of the committee or by an editor.

## REPORT OF THE PRESIDENT, ALBERT W. BUZICKY

My report is brief. As President, representing the AMCA, I attended 8 state, regional and national meetings during the past year. My District paid all my expenses for attending these meetings. I feel that this is a fine way for an AMCA officer to become more familiar with state and regional mosquito matters and above all to become acquainted with many mosquito workers who may not be able to attend our national meetings.

As you now know, the location of our 1972 AMCA meeting was changed from Freeport in the Bahamas to Miami Beach, Florida in the Deauville Hotel. The Florida Anti-Mosquito Association tendered an

invitation to the AMCA to a joint meeting at the latter location and this was accepted by a mail ballot of the AMCA Board of Directors.

Extensive correspondence during the year with committee chairmen and with Executive Secretary Ted Raley has amply demonstrated to me that my charges to the several committees were substantially carried out. Rather than for me to summarize these accomplishments and their recommendations, I would prefer to have you hear them first hand. We will therefore now return to the agenda for our initial report from our Executive Secretary, Ted Raley.

## ATTACHMENT NO. 2

## REPORT OF THE PROGRAM COMMITTEE

The call for papers for the 1971 Annual Meeting was mailed out with materials from the Local Arrangements Committee shortly after September 1, 1970. The deadline for submitting titles was Nov. 15, but papers were accepted until the first week of December.

The number of titles received for the meeting totaled 77 compared with 64 at Portland and 75 at Williamsburg.

With the number of submitted titles received and the planned panel sessions, it was necessary to run concurrent sessions on Tuesday from 8.30 a.m. until noon. Two panel presentations on Tuesday afternoon were planned to give persons the choice either of attending one panel which would

stress current mosquito research or the second panel on administrative and operational phases of mosquito control.

An additional departure from the past several meetings will be an informal presentation of papers on Monday evening. Several authors were asked to discuss their papers to interested members in a round table discussion. These small informal groups will be going on concurrently. It is hoped that this type of "Round Table" plan of a program will prove to be interesting and may lead to expansion in future meetings.

The Program Chairman received excellent advice from Dr. Rogers and members of the Local Arrangements Committee in

working out the 27th Annual Meeting. Many of these recommendations were used as well as suggestions that were received from members of the Association following the Portland Meeting.

It is suggested that the Board of Directors consider policy governing the number

of papers one author may submit for presentation.

A second suggestion is the possible value in the appointment of a Program Evaluation Committee.

GLEN C. COLLETT  
Program Chairman

### ATTACHMENT NO. 3

#### AUDIT REPORT: AMERICAN MOSQUITO CONTROL ASSOCIATION, INC. TREASURER'S ACCOUNT FOR THE YEAR ENDED DECEMBER 31, 1970

(Prepared by Bill L. Duncan, C.P.A.)

March 13, 1971

Board of Directors  
American Mosquito Control  
Association, Inc.  
1737 West Houston Avenue  
Visalia, California 93277

Gentlemen:

We have prepared the accompanying statement of assets and liabilities resulting from recorded cash transactions of the American Mosquito Control Association, Inc. Treasurer's Account as of December 31, 1970, and the related statement of receipts and disbursements with budget comparisons for the year then ended. Our examination was limited for the most part to verifying the various bank accounts and other investments in Selma, California, and

to assembling the accounting data into proper financial statement form.

Due to the limited scope of our examination we are precluded from rendering an independent accountant's opinion as to the accompanying financial statements taken as a whole. However, in our opinion, the cash in the commercial account at Selma, the cash in the savings accounts at Selma, and the time certificate at Selma are fairly presented in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

Respectfully submitted,  
BILL L. DUNCAN  
Certified Public Accountant

AMERICAN MOSQUITO CONTROL ASSOCIATION, INC.  
STATEMENT OF ASSETS AND LIABILITIES  
DECEMBER 31, 1970

EXHIBIT "A"

	<u>Fund General</u>	<u>General Assets Fixed</u>
<b>ASSETS</b>		
Cash in Bank		
Commercial Account—New York	\$ 987	
Commercial Account—Selma	17,787	
Savings Accounts	27,761	
Time Certificate	6,000	
Fixed Assets—at cost (note 1)		\$ 774
Totals	<u>\$52,535</u>	<u>\$ 774</u>
<b>LIABILITIES AND FUND BALANCES</b>		
Liabilities		
Sales Tax Payable	\$ 14	
Accrued Payroll Taxes	281	
Total Liabilities	<u>\$ 295</u>	
Fund Balances		
Investment in General Fixed Assets		\$ 774
General Fund—Exhibit B	52,240	
Totals	<u>\$52,535</u>	<u>\$ 774</u>

Note 1: Fixed assets consist of an IBM typewriter, purchased by the New York office, an adding machine, and a typewriter purchased during the previous year.

EXHIBIT "B"

AMERICAN MOSQUITO CONTROL ASSOCIATION, INC.  
STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS  
WITH BUDGET COMPARISONS  
FOR THE YEAR ENDED DECEMBER 31, 1970

	Actual	Budgeted	Over (Under) Budget
FUND BALANCE—December 31, 1969	\$46,328		
Plus: Adjustment (Note 1)	309		
Adjusted Balance—December 31, 1969	<u>\$46,637</u>		
<b>RECEIPTS</b>			
Dues and Subscriptions	\$21,992	\$20,450	\$ 1,542
Advertising	9,259	9,435	(176)
Reprints	3,143	3,000	143
<i>Mosquito News</i> —Back Issues	651	750	( 99)
N. I. H. Grant	1,740	2,200	(460)
Printing	7,188	6,000	1,188
Annual Meeting	1,750	2,000	(250)
Bulletins	2,741	4,500	(1,759)
Interest Income	2,041	1,000	1,041
Miscellaneous	32	200	(168)
Total Receipts	<u>\$50,537</u>	<u>\$49,535</u>	<u>\$ 1,002</u>
<b>DISBURSEMENTS</b>			
<b>Editor:</b>			
<i>Mosquito News</i> printing and mailing	\$26,794	\$26,000	\$ 794
<i>Mosquito News</i> reprints	2,141	2,400	(259)
Supplies	311	200	111
Clerical, office, and FICA	1,551	5,050	(3,499)
Travel	275	275	—0—
<b>Executive Secretary:</b>			
Postage and envelopes	562	650	( 88)
Forms and printing	171	300	(129)
Office supplies	60	150	( 90)
Travel	100	100	—0—
Clerical	4,800	4,800	—0—
Social Security	230	250	( 20)
<b>Treasurer:</b>			
Office Supplies and Expense	137	150	( 13)
Audit	255	235	20
Travel	100	100	—0—
Totals	<u>\$37,487</u>	<u>\$40,660</u>	<u>\$(3,173)</u>



EXHIBIT "B"

AMERICAN MOSQUITO CONTROL ASSOCIATION, INC.  
STATEMENT OF CASH RECEIPTS AND DISBURSEMENTS  
WITH BUDGET COMPARISONS  
FOR THE YEAR ENDED DECEMBER 31, 1970

	Actual	Budgeted	Over (Under) Budget
<b>DISBURSEMENTS</b>			
Totals	\$37,487	\$40,660	\$(3,173)
Advertising Manager:			
Clerical and postage	400	400	-0-
Travel	200	200	-0-
Membership Committee:			
Postage and stationary	298	900	(602)
Bibliography:			
Postage and other expense	727	600	127
Office of President	136	100	36
Other Committees	109	100	9
Regional Expenses	90	300	(210)
Recording Secretary	150	150	-0-
Association Library		1,200	(1,200)
Travel	421	1,000	(579)
Miscellaneous	846	425	421
Bulletins	4,070	3,500	570
Total Disbursements	\$44,934	\$49,535	\$(4,601)
<b>EXCESS OF RECEIPTS OVER DISBURSEMENTS</b>			
	\$ 5,603	-0-	\$ 5,603
FUND BALANCE—December 31, 1970	\$52,240		

Note 1: The adjustment to the beginning fund balance was made necessary by the reporting in the previous year's report of an incorrect balance for the commercial account in New York.

EXHIBIT "C"

AMERICAN MOSQUITO CONTROL ASSOCIATION, INC.  
TREASURER'S ACCOUNT  
ACCOUNTANT'S COMMENTS  
DECEMBER 31, 1970

**ACCOUNTING BASIS**

The accounting records are maintained on a cash basis. With this method, revenues are recorded only when received and expenditures as they are paid. The accrual in our audit report of the liabilities for sales tax and payroll taxes constitute an exception to the use of this method.

**CASH IN BANK**

Bank of America Commercial Account, Selma: At the year end, this account was reconciled to the bank statement and confirmed directly to us by the depository.

Bank of America, two Saving Accounts: These savings accounts were verified by examination of the passbooks at December 31, 1970 and were confirmed directly to us by the depository.

Time Certificates of Deposit: At the beginning of the year, there was a six-month, 5%, \$6,000.00 T C D on hand. During the year, it was redeemed and another purchased. The other was still held at the year end.

**TREASURY BILLS**

During the year under review, two treasury bills with a total face value of \$6,000.00 were redeemed and the proceeds deposited to savings.

## INSURANCE

The following policies, which represent the insurance in force at December 31, 1970 were examined:

Coverage	Insurer	Amount
Position Bonds:		
Executive Secretary	Hartford	\$40,000
Treasurer	Fidelity and Casualty Co.	35,000

In addition to the position bonds, the association also carries \$2,000 coverage on valuable papers.

In conclusion, we wish to thank Dr. Murray for his courtesy and assistance during the course of the audit.

## ATTACHMENT NO. 4

## REPORT OF THE 1970-71 PUBLICATIONS COMMITTEE

As requested in President Al Buzicky's memo assigning committees for 1970, this report is prepared in three parts, as follows: 1. A general discussion of the committee's work, 2. Summary, and 3. Recommendations. The summary and recommendations are presented below.

## Summary

The feasibility of appointing an assistant editor for *Mosquito News* was discussed by the Editor. It was mentioned that the associate editors (editors of sections) already on the staff really fulfill this function. An assistant editor located elsewhere would increase correspondence and possibly cause more delay in publishing *Mosquito News*. On this subject, the Editor stated that there is no one cause of delays in publication, that circumstances vary from one issue to another and that some delay can be expected because of other duties of the volunteer staff. Editor Collins definitely feels that changing printers will not improve this situation and might increase the problem.

Dr. Frank Murphey agreed to accept the chairmanship of the new bulletin on non-chemical methods of mosquito control. It is expected that the staff of this bulletin will be well organized by the time of the Denver Meeting.

On the subjects of revisions and pricing of bulletins, the committee feels that Bulletin No. 2 should not be revised at this

time since it was last revised 3 years ago, but that prices of all future bulletins should be increased by 50 to 100 percent.

The committee approved the idea of providing a commissioner's section of a page or two in *Mosquito News*, provided that group requests this and agrees to supply copy for it on a regular basis.

The recommendation of a separate publication for operational articles made by the 1969 Editorial Board was withdrawn.

The chairman of Bulletin No. 1 Revision (T. D. Mulhern) in reporting progress on the revised manuscript, again presented the table of contents (See *Mosq. News*, Vol. 30, No. 2, p. 281). The only change is the addition of Laws and Regulations: Aircraft operation, insecticides usage, residues. He also noted that all authors who have already furnished manuscripts, and who may furnish technical resource material up to the time of publication are to be listed alphabetically as contributors to the entire bulletin, but not with respect to any specific section since the subject matter may be shifted in editing for bulletin use to the portion of the bulletin where it should most logically appear.

Submission of a manuscript for the bulletin should not preclude its publication elsewhere as a unit publication, since all manuscripts are to be regarded as subject matter contributions, all to be edited into one general style, with repetition deleted, and with material reorganized as necessary to fit the bulletin format.

### Recommendations

The publications committee proposes the following recommendations for consideration by the Board of Directors at the Denver Meeting.

1. It is recommended that Dr. Hugo Jarnback be appointed to the Editorial Staff as one of the two articles editors.

2. Since *Mosquito News*, like several other scientific journals, is staffed by unpaid volunteers whose obligations to their employers unavoidably cause some minor delays in getting the journal out, it is recommended that advertisers who complain about this be advised of the situation and that their patience and understanding of these minor delays be solicited.

3. It is recommended that the subjects of source reduction and biological control and similar methods of mosquito control be combined in one bulletin (No. 6) with a title like "Non-Chemical Methods of Mosquito Control." It is further recommended that Dr. Frank Murphey be ap-

pointed chairman of this bulletin with authority to select other staff for writing this bulletin with approval of the President of the Association.

4. It is recommended that the price of future bulletins be increased by 50 to 100 percent over current prices by action of the board as each bulletin or revision becomes available for sale.

5. It is recommended that the present editorial staff of *Mosquito News* be reappointed.

WILLIAM E. BICKLEY  
 HAROLD CHAPMAN  
 MIR MULLA  
 E. S. HATHAWAY  
 D. W. MICKS  
 DONALD L. COLLINS  
 T. D. MULHERN  
 ROBERT W. LAKE  
 W. S. MURRAY  
 EUGENE GERBERG  
 ANDREW J. ROGERS, Chairman

### ATTACHMENT NO. 5

#### REPORT OF THE EDITORIAL BOARD OF *Mosquito News*

This has been a quiet year for the Board, since no action requests were brought to its attention. This is not an undesirable situation since we have customarily served in a troubleshooting capacity, and I would interpret our inactivity this year as indicating that our editor has not met with any troubles during the year that required outside assistance. The chairman did have an opportunity to talk with Dr. Collins at the

Miami meetings of the Entomological Society of America and to learn how things have been going with *Mosquito News*. No special problems were apparent at that time.

ROBERT OSTERGAARD  
 WILLIAM B. OWENS  
 MAURICE W. PROVOST  
 JOHN R. WALKER  
 KENNETH L. KNIGHT, Chairman

### ATTACHMENT NO. 6

#### REPORT OF THE MOSQUITO TAXONOMIC GLOSSARY COMMITTEE

At the Williamsburg meeting (1969), a proposal was made by the present chairman of this committee that the American Mosquito Control Association sponsor the production of a mosquito taxonomic gloss-

ary. The purpose of this project would be to begin a movement towards the production of a standardized set of terms for the anatomical structures of all the life stages of mosquitoes. This proposal was passed

by the Board of Directors and President Carmichael instructed Kenneth L. Knight to organize an appropriate committee. This was done and work on the project was begun later in the year.

As plans were developed, it was proposed that the glossary would be prepared in increments and that each increment would be published as a preliminary form in the "Mosquito Systematics Newsletter." This would give interested individuals an opportunity to consider fully all proposed terms and their definitions and to write in rebuttal if this seemed indicated. When the glossary is complete, it is planned that the parts be assembled in revised form and published under a single cover.

Part I appeared in February 1970 and was submitted as an enclosure to last year's report. Following that, Dr. Jean L. Lafoon, Department of Zoology and Entomology, Iowa State University, Ames, became a co-worker in the project. This was done because he is working on anatomical terminology for all insects and has developed a tremendous knowledge and file on this subject. His participation has im-

measurably improved the quality and the comprehensiveness of the effort.

Parts II, III and IV have now appeared and Part V will be issued this month. The first draft will be completed in December 1971. Following that, a period of about 9 months will be required for revision and preparation of a final manuscript. It is anticipated that this should be ready for publication by December 1972.

The services of an artist, Mrs. Y. C. Lee, have been made available to the project by the Southeast Asia Mosquito Project through the auspices of Dr. Botha de Meillon. This is an Army-financed project located at the Smithsonian Institution. Present plans are that this project will also handle publication of the final manuscript.

A set of the parts issued to date are enclosed. A number of comments favorable to the project have been received, as have also criticisms and suggestions for changes or modifications.

HARRY PRATT

ALAN STONE

BOTHA DE MEILLON

KENNETH L. KNIGHT, Chairman

## ATTACHMENT NO. 7

### REPORT OF THE EDITOR OF *Mosquito News* FOR VOLUME 30 (1970)

Statistics for the last two volumes of *Mosquito News* are given in the accompanying table.

The reduction in the total number of pages is partly a reflection of the effort to condense the minutes of the annual meetings (55 pages in 1969, only 33 in 1970). Noteworthy also is the increase in the number both of titles and of pages in the "Operational and Scientific Notes" section.

This does not, in itself, mean that the increase in this section was entirely in "operational" titles, but it is true that an increase in the number of operational titles did occur. This leads to a consideration of two points: (1) By what criterion do we assign a contribution to the "Articles" or the "Notes" section, and (2) What is the meaning of "operational," or rather,

what do different people understand by the term?

(1) In general, we assign an article that will occupy not more than a page to the "Operational and Scientific Notes" section. However, if the number and size of the illustrations or tables would make this awkward or difficult to handle, it would go in the "Articles" section. (2) In neither section do we attempt to classify the contribution as "operational" or "scientific." That can be a highly subjective distinction, often subject to the views of the reader.

These comments may seem to be more in the nature of an editorial than a report, but it seemed appropriate to include them here because of the frequent mention, at

STATISTICS ON *Mosquito News*—1969-1970

Vol. No.	Year	Av. no. pp. per article	No. of articles	No. oper. & sci. notes	Total no. articles & notes	No. pp. articles	No. pp. oper. & sci. notes	Total no. oper. & sci. notes	Total no. pages
29	1969	5.1	105	23	128	537	24	561	715
30	1970	5.0	103	33	136	520	40	560	678

annual meetings, of the desirability of more operational articles. We continue to urge this, but we do not propose a separate section or a separate editor for them. Rather, as was suggested in a previous annual meeting, the Regional Directors

should consider themselves committees of one in their respective regions to instigate, promote, and encourage the preparation and submission to the editor of descriptions of significant contributions that are being made in their fields.

## ATTACHMENT NO. 8

REPORT OF EDITOR OF BIBLIOGRAPHY SECTION OF *Mosquito News*

The bibliography reached a new high of 505 references in one issue of *Mosquito News*—March 1971. Prior to this, the number totaled 480 for the December 1970 issue and the total for last year was approximately 1,830.

At least 99 percent of all references are checked with the original publication. This takes a tremendous amount of time in li-

braries but I feel that it is necessary. Too many incorrect references get into the literature and I do not wish to compound errors. The only references not checked with the original are those taken from the *Tropical Diseases Bulletin*, a highly accurate British journal.

HELEN SOLLERS-RIEDEL

## ATTACHMENT NO. 9

## REPORT OF 1970 OPERATIONAL ARTICLES COMMITTEE

The objective of this committee is to promote publication of informative operational papers by AMCA members. To this end, each committeeman was requested to submit for publication a paper dealing with some operational facet of his organization. Emphasis was placed on disseminating information on techniques employed in solving everyday working problems of mosquito control. The committeemen were requested also to seek five additional papers from neighboring dis-

tricts by encouraging these districts to share their problem solutions with other AMCA members.

The results obtained were less than gratifying. Three committeemen did not respond to our correspondence; one responded, but produced no results; the mailing address of another was not available. A total of 10 papers can be attributed to this committee, one of which was submitted by a non-committee member. Discounting the member whose address

was not available, only half the membership were successful in obtaining operational publications. To these, may I extend a note of thanks; the efforts are appreciated. Of the papers obtained, five dealt with ultra-low volume, two with biological observations, two with general insecticide application evaluation techniques and one with a new method of insecticide application.

Regarding recommendations for the 1971 committee, I cannot over-emphasize the importance of selecting members who are sincere in their intent and who feel that they have the time to devote to this effort.

The 1970 committee was composed of members representing mosquito control throughout the country. This is good, and should be continued in 1971. If possible, it would be helpful to make appointments prior to the national meeting. This would

allow the members to discuss in person plans for the coming year. Perhaps it would be wise to select a committee from relatively new AMCA members, allowing them to become involved immediately, rather than waiting until they have attained the status of Mosquito Control Director before receiving any organizational responsibility. It may well be that once they have attained a high position in their field, other responsibilities restrict outside activities.

- O. W. DOANE, JR.
- D. REED
- G. STAINS
- F. H. LESSER
- E. J. BEIDLER
- J. KILPATRICK
- J. KIMBALL
- G. THOMPSON
- WAYNE C. MACHADO, Chairman

ATTACHMENT NO. 10

REPORT ON ADVERTISING IN *Mosquito News*  
 JANUARY 1, 1970 THROUGH DECEMBER 31, 1970

The figures below represent transactions during the calendar year 1970 for advertising in four numbers, Volume 30, numbers 1, 2, 3 and 4.

Number of active accounts	37
Number of pages of advertising	94
Receipts:	\$9,189.45
Expenses:	
Postage, Printing, Telephone	\$ 200.00

EXPENSES:	
Printing	
Stationery	
Invoices	
Rate Sheets	
Insertion Notices	\$61.00
Postage	
Correspondence	
Invoices	
Plates	
Journals	98.00
Telephone	41.00
	<hr/>
TOTALS	\$ 200.00

BALANCE SHEET—ADVERTISING 1970

Billing for Advertising	\$10,810.86
Less Agency Discounts	1,621.41
REMITTED TO AMCA	\$9,189.45
* * *	* * *
Advance from AMCA	<u>\$ 200.00</u>

## ATTACHMENT NO. 11

## REPORT OF THE FINANCE AND POLICY COMMITTEE

At the 1970 Portland meeting, President Buzicky charged the Finance & Policy Committee with formulating a plan for establishing a central business office and full-time staff for AMCA; and, if the committee deemed such a move feasible, to propose a time schedule for accomplishing this purpose.

After considerable correspondence over the past several months, the committee reached a decision to meet for the purpose of carrying out this important assignment. All living past presidents of AMCA were invited to meet with the committee as a "council of wise old men" to lend their comprehensive knowledge of AMCA to committee deliberations.

On Saturday, November 28, 1970, President Buzicky met with members of the Finance & Policy Committee, and several active past presidents of the Association.

Conclusions reached are presented as recommendations to the Board, and are as follows:

A central business office with a full-time staff is economically feasible, and should be implemented over a three-year period. This schedule is predicated on Executive Secretary Raley's retirement as Manager of the Consolidated Mosquito Abatement District, and his willingness to assume full-time responsibility for AMCA at that time. Since Ted's retirement will be involved with Social Security, a salary as such would be nominal. However, additional compensation should be provided in the form of automobile and travel allowances, insurance, and similar fringe benefits.

It is expected that AMCA will continue as a viable and healthy organization, and will grow even more as it expands services to members throughout the world.

It is the opinion of the committee that steady growth of the Association will provide adequate financing, so that by the time Ted has "had enough," funds will be

available to retain a younger full-time professional person to take over the central business office.

The projections for the years 1972-1975 are included as an attachment to this report to indicate how growth of the Association will provide adequately for financial requirements over the next five years.

The three-year time schedule proposed would shift responsibilities to the Executive Secretary as follows:

## 1971

1. Transfer the duties of the Recording Secretary to the central business office at the close of the 1971 Denver meeting. The Finance & Policy Committee has recommended to the Bylaws Committee that immediate steps be taken to permit a vote on abolishing the office of Recording Secretary at the annual business meeting in Denver.

2. Purchase office machines and equipment as provided in the proposed 1971 budget, including:

a. Model 38, Scriptomatic Addresser	\$ 925.00
b. Model 675 A. B. Dick Copier	1,295.00
c. Model 220 Savin Electrostatic Photocopier	1,600.00
d. IBM Electric Typewriter	600.00
e. Cabinets and Stands	400.00
f. Paper and Related Supplies	480.00
Total for 1971	\$5,300.00

## 1972

1. Transfer duties of the Treasurer to the central office as of January 1, 1972. The necessary bylaws changes should be made at the Denver meeting to permit this.

2. Evaluate clerical requirements of the central office.

3. Provide space for library of Association publications.

1973

Appoint a full-time Executive Director to administer the business affairs of AMCA.

It is the feeling of the committee that this is a most important step, long overdue, which can have far-reaching effects on mosquito workers everywhere.

It is recommended that the Board of Directors approve the foregoing in principle, and authorize the orderly transfer of AMCA business to the central business office.

PROPOSED BUDGET FOR 1971

The budget proposed for the calendar year 1971 is detailed in the attachment, and includes the item for purchase of office equipment described above. Members of

the Board should consider the foregoing and indicate either approval or disapproval to the Executive Secretary prior to December 31, 1970.

As in the past, this will be for tentative approval of the budget only, and final approval of both the budget and the recommendations for a central office will be made at Denver.

- T. G. RALEY
- W. D. MURRAY
- GLEN COLLETT
- CHARLES F. SCHEEL
- GARDNER MCFARLAND
- A. J. ROGERS
- G. T. CARMICHAEL
- R. L. VANNOTE
- DON M. REES
- R. E. DORER
- T. W. MILLER, Jr., Chairman

PROJECTED BUDGETS FOR THE CALENDAR YEARS 1971-1975  
1971 BUDGET APPROVED IN DENVER

CATEGORY LOCATION OF ANNUAL MEETING	RECEIPTS				
	Budgeted 1971	Projected 1972	Projected 1973	Projected 1974	Projected 1975
	Denver	Florida	Texas	California	New Jersey
Dues & Subscriptions	*\$22,500.00	*\$26,600.00	*\$28,800.00	*\$32,000.00	*\$35,900.00
Advertising	9,000.00	10,000.00	11,000.00	11,500.00	12,000.00
Reprints	3,200.00	3,200.00	3,500.00	3,500.00	3,500.00
Back Issues <i>Mosquito</i>					
<i>News</i>	1,000.00	1,500.00	1,500.00	1,750.00	1,750.00
NIH Grant (Bibliography)	2,200.00	.....	.....	.....	.....
Miscellaneous	200.00	300.00	300.00	300.00	400.00
Annual Meeting	3,000.00	3,500.00	3,500.00	** .....	** .....
Bulletins	**4,500.00	2,000.00	**3,500.00	1,000.00	1,000.00
Page Charges— <i>Mosquito</i>					
<i>News</i>	6,500.00	7,000.00	7,000.00	7,500.00	7,500.00
Interest	1,600.00	1,800.00	1,800.00	2,000.00	2,100.00
From Reserves	3,565.00	.....	.....	.....	.....
Totals	\$57,265.00	\$55,900.00	\$60,900.00	\$59,550.00	\$64,150.00
	*1580-10.00	*1700-10.00	*1800-10.00	*2000-10.00	*2150-10.00
	600-12.00	800-12.00	900-12.00	1000-12.00	1200-12.00
	**No. 1 Revised		**No. 6	**California Publishes Proceedings	**New Jersey Publishes Proceedings



## EXPENDITURES

CATEGORY LOCATION OF ANNUAL MEETING	Budgeted 1971 Denver	Projected 1972 Florida	Projected 1973 Texas	Projected 1974 California	Projected 1975 New Jersey
<b>EDITOR</b>					
<i>Mosquito News</i>					
Publishing	28,000.00	29,000.00	30,000.00	**30,000.00	**32,000.00
Reprints	2,600.00	2,600.00	2,800.00	2,800.00	2,800.00
Supplies	300.00	300.00	200.00	200.00	300.00
Clerical	4,000.00	4,000.00	4,400.00	4,800.00	5,200.00
Travel	240.00	200.00	250.00	300.00	50.00
Sub Totals	35,140.00	36,100.00	37,650.00	38,100.00	40,350.00
<b>EXECUTIVE SECRETARY</b>					
Postage & Envelopes	900.00	1,000.00	1,000.00	1,200.00	1,200.00
Forms & Printing	400.00	400.00	500.00	500.00	500.00
Supplies, Equipment, Maintenance	150.00	200.00	200.00	400.00	400.00
Clerical-Administration	5,300.00	5,600.00	8,000.00	10,000.00	11,000.00
Travel	170.00	350.00	1,200.00	1,200.00	1,200.00
Fidelity Bond	.....	300.00	.....	.....	400.00
Rent & Telephone	.....	.....	1,500.00	1,500.00	1,500.00
Car Allowance	.....	.....	600.00	600.00	600.00
Health Insurance	.....	.....	480.00	480.00	480.00
Sub Totals	6,920.00	7,850.00	13,480.00	15,880.00	17,280.00
<b>TREASURER</b>					
Office Supplies	150.00	150.00	150.00	200.00	200.00
Audit	500.00	500.00	500.00	600.00	600.00
Travel	170.00	350.00	250.00	50.00	350.00
Fidelity Bond	325.00	.....	.....	350.00	.....
Sub Totals	1,145.00	1,000.00	900.00	1,200.00	1,150.00
<b>ADVERTISING</b>					
Office Expenses	500.00	500.00	600.00	600.00	600.00
Travel	160.00	200.00	150.00	250.00	200.00
Sub Totals	660.00	700.00	750.00	850.00	800.00
<b>MEMBERSHIP COMMITTEE</b>					
Postage & Stationery	400.00	500.00	600.00	600.00	600.00
Forms & Printing	300.00	300.00	400.00	400.00	400.00
Sub Totals	700.00	800.00	1,000.00	1,000.00	1,000.00
<b>BIBLIOGRAPHY</b>					
EXPENSES	800.00	600.00	600.00	600.00	600.00
PRESIDENT'S OFFICE	500.00	500.00	500.00	500.00	500.00
OTHER COMMITTEES	400.00	400.00	400.00	400.00	400.00
REGIONAL ELECTION EXPENSES	300.00	300.00	300.00	300.00	300.00
LIBRARY (Back Issues Mos. News)	1,200.00	.....	.....	.....	.....
BULLETINS	*3,000.00	.....	*3,000.00	.....	.....
TRAVEL	1,000.00	1,000.00	.....	.....	.....
MISCELLANEOUS	200.00	200.00	.....	.....	.....
CAPITAL OUTLAY	*5,300.00	.....	*500.00	.....	.....
GRAND TOTALS	57,265.00	49,450.00	59,280.00	59,030.00	62,580.00

## ATTACHMENT NO. 12

## REPORT OF THE AMCA MEMBERSHIP COMMITTEE

In the year since the Portland meeting (February 22-25, 1970) the Membership Committee has diligently tried to do four things:

1. Recruit as many new members for AMCA and obtain as many new subscribers to *Mosquito News* as possible;
2. Retain all existing AMCA members and *Mosquito News* subscribers;
3. Spread the word about the values and benefits of AMCA and *Mosquito News* as widely and frequently as possible; and
4. Map out plans for the continuing successful accomplishment of the above three objectives in the future.

Growth in membership and *Mosquito News* subscribers between annual meetings was quite substantial. The net gain on the

mailing list was 147 accounts. Suggestions for future action by the committee and all other members will provide ample stimulation for another active year.

DR. THOMAS F. BAST  
LEWIS E. FRONK  
JAMES B. GAHAN  
J. DAN GORMAN  
JOHN C. KUSCHKE  
DR. R. L. LINKFIELD  
J. C. MCNEILL  
ROY J. MYKLEBUST  
DR. DON PLETSCH  
WILLIAM F. RAPP  
ROBIN ROBINETTE  
GEORGE T. SWEARINGEN  
GLENN M. STOKES, Chairman

## ATTACHMENT NO. 13

## REPORT OF THE RESEARCH AND DEVELOPMENT COMMITTEE

The 1968 Report of the Research and Development Committee (see *Mosquito News*, 29 (2): 297-302 (1969)) was a substantial one containing a number of recommendations. As a result of a mix-up in communications the committee was inactive in 1969, but at the 1970 meeting, at the request of the President, the Chairman of the committee reviewed the 1968 recommendations and suggested terms of reference. It appears that the Governing Board has taken no specific action.

Again, it has been impossible for the committee to meet as a whole; however, the Chairman has met with one or more members on several occasions, and has twice discussed with Pres. Buzicky the position of the R and D Committee. These meetings and a limited correspondence with the membership of the Committee form the basis of the present report.

1. When Pres. Buzicky appointed the present members, he wrote that, "There has been a vagueness relative to the functions of this committee in recent years and some of its 1970 deliberations could relate to defining more clearly, possible functional areas. A recommendation as to the future of this committee should be considered for presentation to the Board."

The committee feels that the 1968 report dealt rather specifically with these matters. However, it has re-addressed itself to a consideration of what the objectives and functions of the committee should be. Earlier in the year our deliberations were aided by the contributions of Dr. Bailey B. Pepper, whose recent death is a loss to the committee, to AMCA, to mosquito workers everywhere, as well as to Entomology as a whole. He will be

sorely missed. In July, 1970 Dr. Pepper wrote to the Chairman as follows:

"I might add that I served on the Research Committee many years ago and I believe that I served as chairman for some two or three years. I can truthfully say that I am still as confused or perplexed over the subject as when I first served on the committee.

"As I view this total picture, I strongly believe that the American Mosquito Control Association as an organization is so diverse that it is impossible for a small or even a medium-sized committee to determine the research needs and the means of accomplishing such research on an international, if not a global basis, as is represented by the organization."

The statements which follow represent the views of the committee insofar as the Chairman has been able to determine them. Lack of unanimity on some points, as indicated, is a healthy sign.

1. There is serious doubt concerning the need and justification for a R and D Committee.

a. The failure of the Board to take any actions on the 1968 Report may be an indication of lack of interest in this type of committee.

2. The Board should at its 1971 meeting address itself to a consideration of the advisability of continuing this committee.

3. If the Board decides that continued existence is warranted, it must:

a. Define the terms of reference and functions of the committee.

The present committee feels that the Terms of Reference suggested in the 1968 report are valid. However, these were *suggestions*, and obviously it would be impractical for a committee to attempt to become involved in all the suggested activities during any one year. In addition, funding would be required for a number of activities, and some would be impractical until such time as the AMCA has a permanent, full-time secretariat.

It is our view that the Board should define the functions. If these are in general terms, then the committee might se-

lect one or two important research issues and concentrate on these, supporting them publicly, reporting through *Mosquito News*, and making representations to funding agencies. However, we believe it would be more satisfactory if the Board stated terms of reference clearly, and suggested specific projects for a particular year, as is done by the California Association (see California Mosquito Control Assoc. 1970 Year Book). The Committee might, for example, be assigned the task of keeping a pesticide policy statement up-dated.

b. Give consideration to the composition and continuity of the committee, as suggested in the 1968 report, and in particular consider the suggested advantages of appointing the committee in advance of the annual meeting. An alternative suggestion is that the committee might consist of only a chairman who would hold a watching brief, and who would on direction of the Board co-opt members for ad hoc assignments; it is perhaps not necessary that there should always be a supposedly active R and D Committee.

4. It is the view of the present committee that:

a. The suggestion of a "Highlights" paper at the annual meeting is debatable. Some members strongly favor the idea, while at least one member feels that "Highlight" papers entail a lot of work and are of questionable value.

b. There is need for a wider dissemination of current information on research and development. This need could be met in part by:

(1) A wider distribution of pertinent sections of the Armed Forces Pest Control Board's Quarterly Reports.

(2) A wider dissemination of the annual reports or other publications of the state or regional mosquito control associations, or at least the distribution of a digest of pertinent items.

(3) Arranging symposia on research and development at the annual meetings, possibly at 3-year intervals. Topics such as Biological Control and New Insecticides come to mind.

(4) Creating liaison through the provision of an Information Service of some sort. For example, the California Association's Year Book lists university and government research staff and their interests. This suggestion and others obviously require budgetary consideration.

c. There is a need to encourage mosquito research by young biologists, particularly in the field of non-chemical control. We are not of one mind as to the merits of awarding a prize (expenses to annual meeting?) for the best paper submitted by a high school and/or university student.

It has also been suggested that research might be encouraged by reminding

members, at intervals, of possible sources of research funds.

d. Benefit might accrue from an AMCA Research and Development Committee establishing liaison with counterpart committees of regional associations.

e. The Governing Board should act on this Report.

C. S. LOFGREN  
D. J. SUTHERLAND  
M. S. MULLA  
W. C. REEVES  
H. F. SCHOOF  
R. BRUST  
P. D. LUDWIG  
G. S. SMITH  
E. J. GERBERG  
A. S. WEST, Chairman

#### ATTACHMENT NO. 14

##### REPORT OF THE AWARDS COMMITTEE

The Awards Committee recommends that the American Mosquito Control Association award annually a limited number of certificates of meritorious service to individuals who have had long and distinguished careers in mosquito control or related activities and who have contributed valuable support to the work of the Association. The awards should be based on sound criteria of genuine achievement and significant contributions in support of the objectives of the Association. The award would be entirely honorary and would involve no expense to the Association except for the cost of the certificate. A possible format for the certificate is attached.

It is further recommended that all past

Presidents serve as an Awards Committee under the chairmanship of the immediate past President. The Committee would develop criteria and submit annually to the Board of Directors a list of their nominees for the meritorious service award. Since the past Presidents have each received a meritorious service award plaque, they would not be candidates for the award.

CHARLES H. ANDERSON  
ROBERT ARMSTRONG  
JOHN BEIDLER  
P. BRUCE BROCKWAY  
R. E. DORER  
C. M. GJULLIN  
DON MICKS  
ROBERT H. PETERS  
A. D. HESS, Chairman

## ATTACHMENT NO. 15

## REPORT OF THE LEGISLATIVE COMMITTEE

There is much State and Federal legislation that is being enacted which affects mosquito control.

The most important is a Federal bill (House Bill HR 4152) called the "Federal Environmental Pesticide Control Act of 1971," by Chairman W. R. Pogge and Page Belcher, both members of the House Committee on Agriculture. Under this bill all pesticides will be registered by the Environmental Protection Agency, Washington, D.C.

After registering the pesticide, the Administrator of EPA will designate it as being for "general use," for "restricted use," or for "use by permit only."

General Use—Restricted only by State and local governments.

Restricted Use—To apply such an insecticide one must have a license obtained from the State based on an examination, or work under the supervision or approval of a person with a license.

Use by Permit Only—To use, one must have a written permit stating the pesticide and amount to be used for each application by an approved pest management consultant. A consultant must be licensed by the State.

In the State of Florida, legislation is being introduced in April concerning all applicators of pesticides, with three exceptions, namely; (1) home owner in and around his home, (2) commercial pest control operators, and (3) mosquito control operations supervised by the State Division of Health as required by State Statutes.

It can readily be seen that the use of pesticides in the open environment in the future will be governed by EPA. Hence, the use of persistent pesticides in the field of mosquito control will soon be at an end.

There has been no activity on HR 14234 "Mosquito Control Act of 1969." The main reason for lack of activity is the fact that the U. S. Public Health Service has not requested a hearing on the bill. Unless, and until, the U. S. Public Health Service shows some interest in the legislation, this bill is destined to remain buried in limbo.

It can easily be seen that the future of mosquito control is caught up in the web of the ecology binge and the future outlook is difficult.

JOHN A. MULRENNAN, Chairman

## ATTACHMENT NO. 16

## REPORT OF THE WORLDWIDE COMMITTEE

The activities of the Worldwide Committee were varied during 1970. In order to best serve international mosquito control work, the committee has attempted to study significant mosquito control developments throughout the world. Also, the committee looked again at its international membership distribution to learn of any possible trends and drew up a country-by-country listing of addresses of members and subscribers. Articles from a few lead-

ing vector control workers who might not normally publish in *Mosquito News* were solicited. International job opportunities were discussed with the object of perhaps eventually assisting those persons interested in international work to locate suitable employment in mosquito or other vector control activities. As a part of its effort to better understand the international situation, a roster of key personnel responsible for antimalaria campaigns was obtained.

Efforts to work more closely with individuals around the world hopefully will be developed as opportunities arise.

#### A. Significant International Developments

International mosquito control activities continued to be centered principally around antimalaria programs and other campaigns for the control of vector-borne diseases. Of particular significance was the revised global strategy of malaria eradication reported and discussed at the 1969 and 1970 World Health Assemblies. The revised strategy allows time-limitation flexibility in malaria eradication programs having technical, administrative or fiscal problems. It also encourages the initiation of malaria control plans within resources available to countries where eradication is impracticable at present. Although residual house spraying with DDT has been and still is the major anti-anopheline measure, other insecticides and other measures such as larval control operations are being increasingly used as a part of an integrated attack against the vectors.

Malathion is being used in several malaria programs, such as those in Iran and Iraq. Propoxur is being utilized in parts of Central America as a residual house spray for control of *Anopheles albimanus*. Supplemental attack measures involving larviciding with Abate, oil, and paris green are being expanded. Saudi Arabia has almost eradicated malaria in El Hassa Oasis as a result of a multi-million dollar irrigation and drainage project.

The use of DDT is being questioned and restrictions are being imposed in the United States and in certain other countries as well. Insofar as malaria programs are concerned, there is no adequate substitute for DDT that is safe to humans, has a long residual activity inside of the houses where it is applied, is effective against most anophelines, is economical to use and is easy to apply—according to a statement recently released by the Malaria Program of the Center for Disease Control (CDC) (copy available).

The Central America Malaria Research Station in San Salvador, El Salvador, and the Thailand Malaria Operational Research Unit in Bangkok, both sponsored by the CDC of the U. S. Public Health Service, are continuing studies on a variety of methods of controlling or eradicating malaria through anti-anopheline and anti-parasite measures.

Research pertaining to mosquito control was continued also by the World Health Organization (WHO). The two WHO Anopheles Control Research Units (ACRU) in Africa continued various studies, especially with candidate insecticides. Residual applications of fenitrothion at ACRU II in Kisumu, Kenya, showed that this compound would provide a very high degree of control of house-entering *An. gambiae* and *An. funestus* for a period of up to three to four months. More extensive field trials of this compound are planned for the future in order to determine the degree to which it can interrupt transmission of malaria in an endemic area. Village scale trials of iodofenphos and Phenthoate (Cidial) by ACRU I in the vicinity of Kaduna, Nigeria showed that both of these compounds also provide a promising degree of control of *An. gambiae* and *An. funestus*.

The WHO *Aedes* Research Unit in Bangkok, Thailand has been carrying out studies on the possibility of suppressing *Ae. aegypti* populations both through long-range larviciding measures and through short-term emergency control in the course of epidemic outbreaks of dengue haemorrhagic fever. In regard to the former, the Unit completed an operational field trial of 1% Abate larvicide sand granules applied at a target dosage of 1 ppm to various types of water storage containers in Bangkok. Following the initial application to a large neighborhood of the city, the Breteau Index was rapidly reduced from 300 to 3.5 and this was followed by a 95.4% reduction of adult *Ae. aegypti* density. The Unit concluded that as a preventive control measure for dengue haemorrhagic fever, two applications of Abate granules appeared to be sufficient,

one just before the rainy season and the other repeated within two months. It was felt that this method of control under appropriate supervision would provide effective and economically acceptable control of this species in areas where it is an important actual or potential vector of disease.

Trials were also carried out with a LECO non-thermal fogger in the city of Sri Racha with a population of 16,000. The machine mounted on a vehicle was used to make three applications of malathion to the entire city three to four days apart at a target dosage of 6 oz. per acre. The degree of control one day after the final treatment showed 99% reduction in the adult mosquito population.

Similar trials have been planned against *Culex tritaeniorhynchus* the vector of Japanese encephalitis in Korea and against this and closely related species in Taiwan.

#### B. Distribution of Members and Subscribers to *Mosquito News*.

During the past two years, 90 countries including the USA and Canada had members of AMCA residing therein, or received subscriptions to *Mosquito News*. A listing of members and subscribers in each of the countries outside the United States and Canada is maintained by the Worldwide Committee. Individuals interested in a certain country may obtain names of members or subscribers by writing to Miss Parsons or the Chairman. The numbers of members or subscribers in each country is shown in Table 1, with a comparison given between the totals for 1971 and 1970. In 1971 four countries have been added: Cuba, Gambia, Trucial States and Yemen; but two no longer are represented: Chile and Peru. This gives a current total of 86 countries outside of the USA and Canada with 405 members or subscribers as compared to 360 one year ago. Although there are also APO, FPO, and Department of State addresses for certain members living outside of the United States, no attempt has been made to include these in this listing.

#### C. Publication by International Workers

In order to augment the international aspects of AMCA activities, several suggestions have been made on ways to increase participation by persons in other countries. Members throughout the world are encouraged to submit items for the "News and Notes" section of *Mosquito News* but also it is hoped that members involved in mosquito and other vector control activities internationally will submit articles for publication.

A major problem encountered is the payment of membership dues and publication costs by individuals or institutions in "soft" currency countries. Although the Association is unable to finance many such articles in *Mosquito News*, it is hoped that two or three international articles each year of particular significance to the members of the Association can be published. Several papers therefore are being solicited specifically for inclusion.

#### D. International Employment Opportunities

Many members of the Association already are engaged in international mosquito control work, whether it be Americans working outside of the United States, or conversely, citizens of other countries working in the United States. A survey done by this committee during 1969 indicated that a large number of members are interested in either short- or long-term employment in countries other than their own.

Although the committee, with the help of the AMCA Executive Secretary, has done some preliminary work that could lead to the development of a sort of clearing house for vector control positions around the world, AMCA is not an employment agency for international mosquito control personnel. In fact, the question has been raised as to the wisdom of encouraging the employment of well-qualified workers who are citizens of the "developing" countries where their services are sorely needed, to accept well-paid

positions with international agencies or other organizations for assignment to countries other than their own. On the other hand, a highly-qualified scientist working for a meager salary in a "developing" country should have the opportunity to receive a greater remuneration by accepting a position elsewhere if he can

qualify for that employment. Such a "brain-drain" is not unique to international vector control programs, of course, but the committee hopes to assist mosquito control through continued study of such international mosquito control problems. At present, questions from individuals seeking international employment are

TABLE I.  
Comparison of AMCA Members and *Mosquito News* Subscriptions  
in 1971 with 1970 Distribution

Country or Territory	1971	1970	Country or Territory	1971	1970
Afghanistan	1	1	Lebanon	3	2
Algeria	1	1	Liberia	2	2
Angola	1	1	Libya	1	1
Anguilla	1	1	Malagasy Republic	2	2
Argentina	4	3	Malaysia	8	8
Australia	23	20	Morocco	1	1
Austria	1	2	Mexico	5	6
Barbados	1	1	Nepal	1	1
Belgium	2	2	Netherlands	18	13
Brazil	12	10	New Zealand	3	2
Burma	2	2	Nigeria	5	4
Cambodia	1	2	Pakistan	6	5
Cameroon	1	1	Panama	1	1
Canada	75	70	Peru	0	1
Cayman Islands	2	1	Philippines	6	6
Central African Republic	1	1	Poland	3	3
Ceylon	2	2	Portugal	2	2
Chile	0	1	Rhodesia	3	3
Colombia	4	4	Romania	1	1
Congo	3	3	St. Lucia	2	2
Costa Rica	3	2	Saudi Arabia	3	1
Cuba	1	0	Senegal	2	2
Czechoslovakia	4	4	Singapore	1	1
Denmark	2	2	South Africa	3	3
El Salvador	2	3	Sudan	1	1
Ethiopia	2	2	Surinam	2	1
Finland	3	3	Sweden	2	1
France	15	13	Switzerland	10	8
Gambia	1	0	Syria	1	1
Germany (Eastern)	1	1	Thailand	11	6
Germany, Fed. Rep. of	13	13	Trinidad and Tobago	4	3
Ghana	1	1	Trucial States	1	0
Greece	1	1	Turkey	2	2
Guatemala	1	1	Uganda	1	1
Guyana	2	2	U.S.S.R.	16	14
India	15	14	United Arab Republic	7	8
Indonesia	4	3	United Kingdom	36	28
Iran	8	5	United Rep. of Tanzania	5	3
Iraq	3	3	U.S.A.	1,658	1,492
Israel	6	6	Upper Volta	2	2
Italy	9	8	Venezuela	10	12
Jamaica	2	2	Vietnam, Republic of	1	1
Japan	39	37	Yemen	1	0
Kenya	3	3	Yugoslavia	1	1
Korea, Republic of	3	5	Zambia	2	1



often answered by the committee, referring the persons to appropriate agencies. The Committee will work closely with the AMCA Executive Secretary in these matters.

### E. International Relationships

There is a natural camaraderie between individuals engaged in vector control activities around the world. A mosquito specialist can travel from one country to another, finding friends and colleagues wherever he goes. The committee wishes to foster this relationship which it believes strengthens international ties and helps develop better mosquito control programs in all countries. By knowing each other we become better acquainted with our common problems and methods to solve them. The AMCA can perhaps be of service as a good neighbor to mosquito control programs on a worldwide basis through this committee.

In many countries the only group presently engaged in any form of organized mosquito control activities is the one charged with anti-malaria activities. The committee, therefore, has obtained from WHO a listing of 51 names and addresses of directors for national or regional malaria eradication or control campaigns (copy available). This listing, along with the

current AMCA membership and subscriber list for each of 86 countries outside of the USA and Canada, is a valuable resource for persons or organizations interested in international vector control work.

### Acknowledgments

Thanks are due to the many individuals who assisted the committee with its activities. The help of WHO through Dr. Norman G. Gratz and the staff of Mr. H. Rafatjah for providing significant portions of the material made available to the committee is appreciated. Also the painstaking task of assembling the worldwide membership names and addresses by Miss Parsons and her colleagues is acknowledged by the Chairman with sincere thanks.

The committee encourages all AMCA members to provide suggestions or information pertaining to international activities of the Association. The potential for increased worldwide activity is great and is a challenge to the entire membership.

RICHARD F. DARSIE  
 RUSSELL E. FONTAINE  
 ROY F. FRITZ  
 HUGO A. JAMNBACK  
 MARGARET A. PARSONS  
 DON J. PLETSCH  
 H. RAFATJAH  
 DONALD R. JOHNSON, Chairman

## ATTACHMENT NO. 17

### REPORT OF THE BYLAWS COMMITTEE

As directed by the 1970-71 Board of Directors of AMCA, the Finance & Policy Council considered the future development of a central business office to consolidate the business affairs of the Association within the responsibilities of a full-time Executive Secretary. It was concluded that this is practicable and financially feasible and can be fully accomplished by 1973. (See December, 1970 report of the Finance and Policy Council.)

The Bylaws Committee was requested to prepare proposed amendments to the bylaws which if adopted would provide for the orderly transfer of the primary business activities, to proceed as rapidly as practicable, beginning with the transfer of the duties of the Recording Secretary, to be followed shortly thereafter by transfer of the duties of the Treasurer.

Wayne Miller, whose two-year term as Recording Secretary extends through 1971

to end at the 1972 meeting has urged that his duties be transferred immediately after the 1971 meeting. The present two-year term of Treasurer W. D. Murray will end at the 1971 meeting, and the mail balloting for the two-year term to end at the 1973 meeting is now in progress. Dr. Murray has also indicated his willingness to transfer his duties as quickly as this can be effected in a mutually satisfactory manner.

Suggested changes in the bylaws have been prepared, as per copy herewith, to be presented to the general membership when approved by the Bylaws Committee and the Board of Directors.

When the duties of the Recording Secretary and of the Treasurer have been transferred to the Executive Secretary, a major change will have been accomplished toward the ultimate goal of bringing substantially all routine business transactions into the central office. This is reflected in the proposed changes of the bylaws, but the changes also point up certain weaknesses which will then be evident in the bylaws, and these items might well receive study by the Board of Directors and the incoming Finance & Policy Council, with the Executive Secretary providing advice and detailed resource information. These items may be tabulated as follows:

1. With the transfer of duties, the Association will be even more dependent than it is now upon the Executive Secretary, but there is no provision assuring continuity through the future period when ultimately the duties must pass on to another person.
2. There is also no provision for continuity through any temporary period of weeks or months during which the Executive Secretary might be unable to carry on due to accident, illness, or any other emergency.
3. There will be two less members of the Board of Directors, thereby lessening representation.
4. The Association has never achieved a direct administrative relationship with the various local or state associations. It has been suggested that the Board of Directors of AMCA

might be modified, so that each local association could be invited to name one member, to which would be added several members at large, elected by the total membership, plus the officers of the Association.

5. The stated objective of these changes is to provide a full-time staff, and remuneration to the Executive Secretary, but this is not stated in the bylaws, even though it is an extraordinarily important change upon which the future evolution of the Association may hinge.
6. The report of the previous Scope of Activities Committee contains the following: "In other years a suggestion has been made to the Expanded Scope of Activities Committee to appoint a program director (in addition to a business manager), preferably with a Ph.D. degree, who could work with various agencies for grants; who could represent the association in negotiations with other institutions, agencies, organizations, etc.; and who would guide and promote association growth." Perhaps now is the time to take action on this proposal.
7. Relating to items 1, 2, and 6, Ted Raley has made the suggestion that the Board of Directors consider appointing an advisory committee of perhaps three members, all of whom would be located within range so as to be able to meet frequently and work closely with him during the transitional period, to give him the benefit of their advice and to keep so well informed about the activities of the Executive Secretary and his staff that continuity could be provided for should unforeseen circumstances prevent his functioning.

The report of the Finance & Policy Council relating to these matters was submitted to the Board of Directors some time ago, and this communication is intended to bring before you changes which evidently should be made in the bylaws to effect the proposed consolidation, and also to ask your further consideration and appropriate action relative to the seven numbered items.

DONALD W. MICKS  
 RICHARD F. PETERS  
 DONALD R. JOHNSON  
 J. DAN GORMAN  
 T. D. MULHERN, Chairman

## ATTACHMENT NO. 18

## REPORT OF THE AMCA REPRESENTATIVE TO NATIONAL MOSQUITO CONTROL-FISH &amp; WILDLIFE MANAGEMENT COORDINATION COMMITTEE, 1970

The National Mosquito Control-Fish and Wildlife Management Coordination Committee was organized in 1960 and has met regularly in Washington, D.C. to consider those problems common to mosquito control and wildlife management.

The present membership is as follows:

- Walter S. Dykstra, Chairman  
U.S.D.I., Bureau of Sport Fisheries and Wildlife
- Claude H. Schmidt, Secretary  
U.S.D.A., Entomology Research Division
- Robert F. Hutton  
American Fisheries Society
- Laurence R. Jahn  
Wildlife Management Institute
- Harry D. Pratt  
U.S.P.H.S., Environmental Health Services
- Robert L. Vannote  
American Mosquito Control Association, Inc.
- Frank J. Murphey, Alternate  
American Mosquito Control Association, Inc.

The meetings of the committee are held in the offices of the Wildlife Management Institute, Washington, D.C. All members are usually present and indicate great interest in the educational and investigational activities of the committee.

The major accomplishments in 1970 included the revision, publication and distribution of the bulletin, "Coordinated Mosquito Control." This bulletin is a visual, factual display that mosquito control and wildlife interests are actively cooperating at top levels for mutual benefits.

The Mosquito Control-Fish and Wildlife Management Fall Conference held in Cocoa Beach, Florida on October 21-23, 1970, in cooperation with the Florida Anti-Mosquito Association, was an outstanding success. A full day was devoted to the presentation of papers on subjects relating to mosquito control and wildlife problems with ample opportunity for discussion. The second day was devoted to a guided field trip through the impoundment marshes at Cape Kennedy under the direction of Jack Salmela, Director of the Brevard County Mosquito Control District. It is interesting to note that 48,000 acres are impounded in Florida for mosquito control and wildlife preservation to the great advantage of both interests.

Paul J. Hunt, Director of the East Volusia County Mosquito Control District at Daytona Beach led a visitation to inspect the impounded meadows in his district.

This committee has no source of income other than a small override on the sale of the proceedings of its conference meetings. Its expenses are limited to those of its secretary for stationery, postage, printing and publication. It is recommended that the Board of Directors of AMCA consider the donation of \$100.00 from its 1971 budget to this committee to help support its activities. It is anticipated that a similar donation may be received from other sources.

ROBERT L. VANNOTE

## ATTACHMENT NO. 19

## SPECIAL RESOLUTION 1:

WHEREAS: The technical integrity and success of mosquito control and mosquito borne disease control programs is threatened by:

1. Rising levels of tolerance for acceptable and legal pesticides which have been manifested at many locales widely distributed over the world
2. Concern relative to pollution of the environment which has been already translated into restrictive regulations and legislation tending to limit the application of pesticides, and
3. The greatly increased cost of clearing pesticides for registration has already discouraged some producers from the development of new pesticides so that the prospects for replacement chemicals are steadily lessening, and

WHEREAS: Funding for research by accredited universities and other public agencies is not adequate for the needs

THEREFORE BE IT RESOLVED: That the Federal fund granting agencies, the philanthropic foundations which are concerned with the advancement of public health, and the various state and local governments be approached with specific proposals to support research on all aspects of mosquito control.

ADOPTED WITHOUT DISSENTING VOTE,  
27TH ANNUAL MEMBERSHIP BUSINESS  
MEETING, MARCH 24, 1971, DENVER,  
COLORADO

## SPECIAL RESOLUTION 2:

WHEREAS: The President of the United States has taken cognizance of the deep

concern within the nation of continuing pollution of air, water, and land by naming a commission with power to act in protecting the environment from further deterioration; and various levels of Federal, state, and local government have adopted or are considering legislation for the same high purpose; and

WHEREAS: The American Mosquito Control Association and the local agencies represented within its membership have as their primary objective the preservation of a beneficial environment for mankind by preventing pollution with mosquitoes and mosquito borne diseases; now

THEREFORE BE IT RESOLVED: That AMCA identify with the President's Commission to preserve the environment, and that it take all practical steps in a formalized continuing manner to provide the Commission and the legislative bodies, full information about the steps which are being taken by mosquito control agencies to cooperate in environment protection activities, and

BE IT FURTHER RESOLVED: That substantial financial assistance be sought through these agencies for research and demonstration programs which will advance mosquito control without hazard to non-target forms of life; and

BE IT FURTHER RESOLVED: That copies of this resolution be forwarded to the President of the United States in appreciation of his concern for the environment of the future; to Mr. Rucklehaus, Chief of the Environmental Protection Agency, and to the various legislators who may be interested or concerned.

ADOPTED WITHOUT DISSENTING VOTE,  
27TH ANNUAL MEMBERSHIP BUSINESS  
MEETING, MARCH 24, 1971, DENVER,  
COLORADO

## ATTACHMENT NO. 20

## REPORT OF THE NOMINATIONS COMMITTEE

The Nominating Committee by mail ballot voted 5 to 3 to select one nominee for Vice-President instead of two. The Committee nominations were as follows:

President-Elect: Glen C. Collett  
 Treasurer: Dr. W. D. Murray  
 Vice-President: Dr. Kenneth L. Knight

GEORGE T. CARMICHAEL, Chairman

## ATTACHMENT NO. 21

## SUMMARY OF STATEMENT BY A. J. ROGERS AT THE FINAL BOARD MEETING AT DENVER, MARCH 24, 1971

During 1971-72, the principal effort will be to tell the other side of the pesticide story. The time has come when a national organization, such as AMCA, must advise the public and public officials of the positive values of pesticides. It is later than we might think.

A militant conservation group in Florida has recently adopted a goal of phasing out the use of all pesticides in the state by 1973. This, of course, is ridiculous, but it shows what a little taste of victory against one pesticide does to the uninformed, hysterical minds of the radical environmentalists. I have received a report since arriving at Denver that a bill to ban the use of oil as a mosquito larvicide has also been prefiled for consideration by the 1971 Florida Legislature. Therefore, we cannot assume that the activists will stop short of trying to eliminate the use of all pesticides.

To accomplish the objective of telling the true story of pesticides will be the first and foremost responsibility of the Public

Relations Committee. This committee will be headed by Dr. William Hazeltine, who is already active on his own in this controversy. He has just returned from Washington, where he testified before the House Committee that is considering legislation against pesticides. Dr. Hazeltine and his committee will represent AMCA at a professional level in this important matter.

Other objectives of the incoming administration will be: 1. to continue the fine progress made under Al Buzicky's administration toward consolidation of the business affairs of the Association in a central office; 2. to complete revision of Bulletin No. 1, which Tommy Mulhern has said will be ready for printing within six months; and 3. to make additional progress on the writing of Bulletin No. 6, Non-Chemical Methods of Mosquito Control. Dr. Frank Murphey, the editor, has set a target date of November, 1972, for publication of this new bulletin.

## ATTACHMENT NO. 22

## AMCA 1971 COMMITTEE APPOINTMENTS

1. EDITORIAL STAFF—*Mosquito News*
  - DONALD L. COLLINS, Editor
  - HELEN SOLLERS-RIEDEL
  - DONALD E. WEIDHAAS
  - AUSTIN W. MORRILL
  - HUGO A. JAMNBACK
2. EDITORIAL BOARD—*Mosquito News*
  - KENNETH L. KNIGHT, Chairman
  - ROBERT OSTERGAARD
  - MAURICE W. PROVOST
  - JOHN R. WALKER
  - WM. B. OWENS
  - J. McLINTOCK
3. PUBLICATIONS COMMITTEE
  - GLEN C. COLLETT, Chairman
  - WILLIAM E. BICKLEY
  - DONALD L. COLLINS
  - HAROLD CHAPMAN
  - EUGENE GERBERG
  - ROBERT W. LAKE
  - B. HOCKING
  - GARDNER C. McFARLAND
  - WILLIAM F. RAPP, JR.
  - TOM J. CURTIN
  - DON W. MICKS
  - GLENN M. STOKES
4. OPERATIONAL ARTICLES COMMITTEE—*Mosquito News*
  - WAYNE MACHADO, Chairman
  - GEORGE THOMPSON
  - JAY E. GRAHAM
  - WILLIAM I. BARTON
  - FRED H. LESSER
  - ARTHUR F. GEIB
  - JACK SALMELA
  - ROBERT H. PETERS
  - ROBERT L. ARMSTRONG
  - E. ELWOOD LYNCH
5. FINANCE AND POLICY COMMITTEE
  - ROWLAND E. DORER, Chairman
  - T. WAYNE MILLER
  - CHARLES F. SCHEEL
  - T. G. RALEY
  - W. D. MURRAY
  - GLEN C. COLLETT
  - ROBERT L. VANNOTÉ
  - A. W. BUZICKY
  - RICHARD F. PETERS
  - DON M. REES
  - WILLIAM E. BICKLEY
6. MEMBERSHIP COMMITTEE
  - GLENN M. STOKES, Chairman
  - GEORGE SWEARINGEN
  - LEWIS FRONK
  - ROBERT LINKFIELD
  - DON J. PLETSCH
  - JOHN B. DAVIES
  - J. A. SHEMANCHUK
  - OSCAR W. DOANE, JR.
  - LCDR JOHN A. MULRENNAN, JR.
  - JOHN J. DILL
  - JOHN STONER
  - JOHN BRAWLEY
7. LEGISLATIVE COMMITTEE
  - JOHN A. MULRENNAN, Chairman
  - A. W. BUZICKY
  - GEORGE T. CARMICHAEL
  - JOHN BEIDLER
  - WILLIAM HAZELTINE
  - C. T. WILLIAMSON
  - FRANCIS CREADON
  - BRYAN E. MILLER
8. NOMINATING COMMITTEE
  - A. W. BUZICKY, Chairman
  - D. M. JOBBINS
  - CLAUDE SCHMIDT
  - T. O. FULTZ, JR.

P. BRUCE BROCKWAY  
 C. A. VIESER  
 J. A. DOWNS  
 WILLIAM F. RAPP, JR.  
 ROY J. MYKLEBUST  
 PATRICK Y. NAKAGAWA  
 CHARLES M. KEENAN

HARRY PRATT  
 BRUCE BROCKWAY  
 ARCHIE HESS  
 CHARLES ANDERSON  
 FRANK WILSON  
 GARDNER C. MCFARLAND  
 ROBERT ARMSTRONG

9. PUBLIC RELATIONS COMMITTEE

WILLIAM HAZELTINE, Chairman  
 D. D. MILLER  
 JAMES D. LONG  
 MIKE SHINKLE  
 H. F. SCHOOF  
 RONALD L. WOLFE  
 W. G. EDEN  
 ROY J. LEDBETTER

10. BYLAWS COMMITTEE

JAMES D. GORMAN, Chairman  
 JOHN C. KUSCHKE  
 PAUL HUNT  
 JAY GRAHAM  
 RICHARD F. PETERS

11. AWARDS COMMITTEE

DON MICKS, Chairman

12. WORLD WIDE COMMITTEE

DONALD R. JOHNSON, Chairman  
 RICHARD F. DARSIE  
 HUGO A. JAMNBACK  
 MARGARET PARSONS  
 H. RAFATJAH  
 DON J. PLETSCH  
 EDGAR A. SMITH  
 S. G. BREELAND  
 ROBERT LINKFIELD  
 A. E. WINMILL

13. RESOLUTIONS COMMITTEE

LEWIS T. NIELSEN, Chairman  
 PAUL HUNT  
 GARDNER C. MCFARLAND  
 WILBUR MITCHELL  
 JOHN STONER  
 A. WARREN WHEATLEY  
 A. S. WEST  
 LT. COL. HARLAND W. FOWLER, JR.

GENERAL APPOINTMENTS

1. Program Chairman—Annual Meeting  
Kenneth L. Knight
2. Representative to the National Fish and Wildlife Council  
Robert L. Vannote
3. Advertising Manager—*Mosquito News*  
Francis P. Creadon
4. AMCA Bulletin No. 1  
T. D. Mulhern, Editor  
Norman B. Akesson, Alternative Editor  
Art Geib, Advertising Manager
5. AMCA Bulletin No. 6  
Frank Murphey, Editor

## ATTACHMENT No. 23

## EXHIBITORS AT DENVER MEETING

AMERICAN CYANAMID COMPANY  
AMERICAN MOTORS  
B & G EQUIPMENT COMPANY  
BIOQUIP PRODUCTS COMPANY  
BUFFALO TURBINE  
CESSNA AIRCRAFT COMPANY  
CHEMAGRO CORPORATION  
CHEVRON CHEMICAL COMPANY  
COLORADO INTERNATIONAL CORPORATION  
CURTIS DYNA-PRODUCTS  
DOW CHEMICAL COMPANY  
HUB STATES CORPORATION  
HUGHS TOOL COMPANY  
HUMBLE OIL AND REFINING COMPANY  
J. J. DILL COMPANY  
LOWNDES ENGINEERING (LECO)  
PIPER AIRCRAFT CORPORATION  
SCIENTIFIC SYSTEMS  
SHIELD-BANTAM  
THIOKOL CHEMICAL CORPORATION  
TODD-CEA, INC. (TIFA FOGGERS)