

NEWS AND NOTES

AUSTIN W. MORRILL, JR.

OUR FIRST ORDER OF BUSINESS THIS FINE DECEMBER MUST CERTAINLY BE TO HAIL OUR OWN SIR ARTHUR LINDQUIST who received the Royal Order of the North Star as Knight First Class from the King of Sweden, Carl XVI Gustaf, who would have presented the honors in person in April, had Dr. Lindquist not been AMCA'ing in Boston! Obviously, the King was honoring Sweden by honoring Art and we congratulate the monarch on his perspicuity while offering our heartiest congratulations to Art for another honor of which he may be justifiably proud. Not that he and Nita stuck around very long to gaze on it. They were off like shots to Mexico City to attend the August 25 dedication of a new screw-worm fly rearing facility . . . the world's largest . . . about 500 miles south of Mexico City at Tuxtla Gutierrez in the State of Chiapas. This joint effort by the Governments of Mexico and the United States is the culmination of the many years' work done at Uvalde, Texas, of which Art is one of the premier pioneers. Whereat, what did Art and Nita do as soon as they got back to Bridgeport, Kansas? Headed north.

THE AMCA WAS WELL REPRESENTED AT THE XV INTERNATIONAL CONGRESS OF ENTOMOLOGY LAST AUGUST IN WASHINGTON, D.C. BOTH BY THE LARGE NUMBER OF AMCA'ERS PRESENT AND BY A VERY ATTRACTIVE EXHIBIT. The Opening Plenary Session was addressed by T. R. E. Southwood of the United Kingdom, and the mornings were generally devoted to symposia designed to be of general interest, such as pesticide development, pesticide resistance, chemosterilization and genetic control of insects. One of these, Changing Patterns in the Transmission of Arthropod-borne Diseases, included excellent status reports on dengue-hemorrhagic fever by JOHN SCANLON, on filariasis by BOTHA DEMEILLON and on malaria by RON WARD. Unfortunately, in this age of specialization, it is difficult to plan programs which appeal to diverse groups and so some of the morning symposia were not too well attended. Of course, this may also have been due to the fact that paper reading sessions often continued until 10 P.M.!

Out of a total attendance at the Congress approaching 2400, the CERATOPOGONIDOLOGISTS were very much in evidence and our spy asks, plaintively, "Wouldn't it be nice if they'd just call themselves the biting midge specialists?" (We agree. We've even toyed with the idea of how nice it might be for entomologists to go back to the original eighteenth-century name of "Bugists"!)

Anyhow, a report of their activities at a post-Congress conference is scheduled to appear in *Mosquito News*.

There was also a Biting Fly Work Conference,

although we've always thought ANY conference was work. This group concentrates on tabanids but does not ignore midges, black flies and stable flies. It is well known that in many places tabanids are equally and even at times much MORE obnoxious than mosquitoes and also much more difficult to control. (The next Workshop will be held in June of 1977, at Morgantown, West Virginia.)

One afternoon symposium was convened by DICK HAYES with CARL MITCHELL, HUGO JAMNBACK and DON SCHLISSMANN and was very well attended. In addition to all this, there were three very well-managed and successful social mixers or receptions, one at the U.S. National Museum of Natural History. The XVI International Congress of Entomology is slated for 1980 in Japan, possibly in Kyoto. If so, get your reservations in to the Miyako early! It's ALWAYS filled.

AND SPEAKING OF BITING FLIES AND THEIR EFFECT ON OUR HISTORY . . . AS WE REPORTED THOMAS JEFFERSON DOING awhile back . . . no doubt you saw the article in *Smithsonian* magazine recounting what WE are all well aware of, the effect of MOSQUITOES on the Revolution, as well as on the War Between the States and subsequent conflicts. Just as at Buna one hundred sixty odd years later, the final battle at Yorktown was quite likely won by the side that had the LEAST malaria. (One idea the article sets forth was a new one to us, namely, that in addition to the decimation of the hapless Indian by our malaria, the relative resistance of the Negro to the disease may have been a large factor in the need for and the success of the slave system, with all its resulting tragic impact on both us and Africa.)

AND WHILE WE'RE BEING HISTORICAL, YOU MAY LIKE TO KNOW THAT THERE IS AN INTERNATIONAL MOSQUITO SPIRAL MANUFACTURING ASSOCIATION and that their first meeting was slated (as we write this) for 22 and 23 November 1976 at the Marco Polo Hotel in Singapore. The Association was founded on Austin Road in Kowloon (Hong Kong), a road we have ridden down with interest several times, looking expectantly for the Morrill we felt sure was around somewhere, but never finding it! If you are wondering what the historic factor is in mosquito spirals, you may wish to know that the coils are universally and heavily used in the Orient (and successfully, too) to drive off mosquitoes from unscreened rooms and porches, even gardens, and are the first form of pyrethrum used in mosquito control, so far as we have ever been able to determine. Try 'em, you'll like 'em! (Adv.) (You BURN them, like

punk, in little clay pigs and things in Japan, in ash trays in Singapore and Bangkok and such.)

WHO SAID US SUTHE'NERS WERE SLOW? . . . ! WELL, Y'ALL JUS BETTAH RE'VISE YOUR OPINIONS! GLENN STOKES has sent us a whole WAD of the brochures you'll probably be receiving next spring, or a portion of them. Glenn wishes he could send them ALL to each one of you so you could know how INVITING New Orleans is and how much you're going to enjoy it there when you attend the Meetings on the 27, 28, 29 and 30th of March next year. Of course, y'all are going to N'Orlyuns to attend the MEETINGS but that doesn't mean you're not going to take in the great side-experiences that'll surround you at the Marriott Hotel, on the edge of the Vieux Carre. French Quarter, famous old restaurants, Dixieland jazz, azaleas, dogwood, redbud in the countless lovely courtyards, wrought-iron balconied buildings of an earlier, pleasanter day, beautiful and famous gardens and storied mansions of the Bayou Teche, boating on Lake Pontchartrain, fishing on the Bayous and the Gulf . . . wow. The list is endless.

DR. LEON ROSEN RECEIVED THE DHEW DISTINGUISHED SERVICE MEDAL AT A DEPARTMENTAL HONOR CEREMONY last April and we're sorry to be so long noting it. His citation praised his important contributions to the epidemiology of dengue and filariasis, as well as the viruses and eosinophilic meningitis. Dr. Rosen, besides being an AMCA'er of note is the current President of the American Society of Tropical Medicine and Hygiene and heads a lab we hope some of you visited when you were in Honolulu for ESA's meetings.

Wow! TOMMY MULHERN SENT ALONG THE PROGRAM AND A NEWSCLIP AND A REAL GREAT REPORT ON A SEMINAR TO END ALL SEMINARS (except this was meant to be only a beginning.) This seminar was the *Seminario Internacional Sobre Control de Mosquitos* ("Control"? Isn't that sort of Fractured Spanish?) It was held on 12 to 24 at the California State Department of Public Health in Berkeley, with the days between 15 and 23 in Fresno, Stockton and Garden Grove, with stop-offs at the Navy's Point Molate and at Solano County's MAD office, and then on the 24th the whole thing took off and FLEW TO SAN SALVADOR, where they continued from 25 through 31 July. (We hope they flew from Fresno to Orange County, too. It's no short drive!) Needless to say, EVERY speaker in California was an AMCA'er, including non-Californians DON SCHLISSMANN and SILVIO PALACIOS and in El Salvador, besides Tommy, were AMCA'ers JOE AUSTIN and RON LOWE. There were 24 participants in the U.S. portion and about twice that number in El Salvador. On the closing day, the representatives of the South and Central American countries presented Tommy with a

certificate bearing all their signatures and a working machete engraved with their countries' crests, naming Tommy El Primo of the Order of the Machete. Thanking him for guiding, hosting and nurse-maiding a "pack of Latin Americans" they also presented a letter expressing regard for both Helen and Tommy and concluding, "Muchas, pero muchas gracias amigo Tommy. Esperamos volver a encontrarnos en el futuro y continuar así esta amistad." Applause, Tommy, and we hope so, too.

JACK SALMELA RECEIVED A CERTIFICATE OF COMMENDATION FROM THE U.S. FISH AND WILDLIFE SERVICE for his support and assistance over the past 13 years. "You have provided an outstanding example of the achievements that can be accomplished through cooperation between widely divergent agencies." In his Brevard County (Florida) Annual Report for last year, Jack noted what we have all experienced, that "although adulticide is very expensive and produces benefits of short duration, the average citizen is more concerned with the destruction of adult mosquitoes on his property than all other phases of mosquito control combined. Seldom does he see our men who spend most of their time working in swamps and other remote areas where mosquitoes breed. Many taxpayers weigh their benefits in direct proportion to the number of times the spray truck passes their door, when actually it is the other way around."

Jack has 20,000 acres of impoundments, as well as vast areas of drainage and water channel clearing, which is where F & WL comes in, and his ten stationary electrically-driven pumps range in size from 12 to 36 inches in diameter. There are also intricate systems of culverts and water-control structures where different schedules of flooding and drying are being used for the benefit of waterfowl.

AND SPEAKING OF FLORIDA, JOHNNY MULRENAN HAS RETIRED AFTER FORTY OUTSTANDING YEARS OF SERVICE TO THE DEPARTMENT OF HEALTH OF THAT SUNNY STATE. They gave him a big reception in the afternoon in the Jacksonville offices and then, that night, the Florida Anti-Mosquito Association had a dinner in his honor. ELIZABETH BECK sent us the word and added that he was "gifted" on each occasion . . . but Beth added, "he's always *been* gifted . . . with a mind that sees to the point of the problem and the words to explain it!" This seems to us a very apt comment, because OUR first knowledge of Johnny was during WW II when he did so much to put malaria control . . . and mosquito control in general . . . onto an effective basis around military installations in Florida, of which there were many. FAMA has elected him Secretary-Treasurer Emeritus for life, which somehow sounds more like work than honor, but Johnny's never been one to shirk work. In fact, according to Johnny Jr., he's probably going to dive right

into the up-dating and general transformation of the family groves and no time wasted on resting. JACK ROGERS, as is befitting, succeeds him and that's an apt word, too, for we know he will. Succeed.

DR. DONALD M. McLEAN SENT IN HIS CHECK FOR NEXT YEAR'S DUES FROM HIS UNIVERSITY OF BRITISH COLUMBIA office in Vancouver (Canada) and must have had his check in the mail instantly after reading the *News Letter* No. 6, for he was the first to do so. This pleased Tommy Mulhern doubly, as one may imagine, both for the easing of clerical costs the action made possible (YOURS would, too!) but also because it showed that SOMEONE out there was reading the *News Letter*, that it is becoming an Effective and Recognized In-House Channel of Communications. Hurray for you, Don!

IT'S TOUGH TO WORK FOR TWO EDITORS WHO BOTH TAKE FASCINATING TRIPS AND SEND REAMS OF WONDERFUL NOTES AND NEITHER OF WHOM WILL LET ONE UTTER A WORD ABOUT THEM. *Frustrating!* Anyhow, they did, and under threat of having it deleted, we think we should thank them. In the same class is our peripatetic and energetic Executive Director, who is the font of so much of our news. HE and his wife returned from a week-end in the Southland (Calif.) to report that JACK KIMBALL and his wife are both in the pink, slim and trim and full of energy and still maintaining their beautiful showplace in Newport Beach. It was also an opportunity to visit C. Y. CHOW, who was in L.A. with his family, prior to returning to his post with WHO in the Philippines, where he has done so much to advance the malaria control programs of the developing Southeast Asia countries.

BRAD ANDERSON IS THE NEW DISTRICT MANAGER FOR THE CONTRA COSTA (CALIF.) MOSQUITO ABATEMENT DISTRICT, effective 1 November 1976. Brad has been at Benton County (Washington) MAD until now, and we hope he will find the Bay Area both stimulating and pleasant. (Contra Costa refers to the opposite coast from San Francisco, needless to add!) It's a big and mighty diverse area.

IN AUGUST THE POST OFFICE DEPARTMENT ISSUED A COMMEMORATIVE IN HONOR OF CLARA MAASS WHO GAVE HER LIFE IN THE INITIAL AND SUCCESSFUL STUDIES OF THE TRANSMISSION OF YELLOW FEVER BY MOSQUITOES. In 1895, Miss Maass graduated from nursing school at Newark German Hospital and became head nurse three years later. She volunteered as a contract nurse with the Army in the Spanish-American War and served in Florida, Georgia, Cuba and the Philippines. When Dr. Gorgas issued a call for volunteers in his experiments on *Stegomyia* as the carrier of yellow fever, she volunteered and contracted a mild case after being bitten by a mos-

quito on 4 June 1901. Some authorities now surmise that she actually contracted dengue at this point, rather than yellow fever. At any rate, doubting that she had obtained immunity she again allowed herself to be bitten and died 10 days later at the age of 25, the only American and the only woman to die during the experiments. The design of the 13¢ stamp is based on a portrait of her which hangs in the Clara Maass Memorial Hospital in Belleville, New Jersey.

HENRY RUPP SENDS A WHOLE LOT OF OTHER NEW JERSEY NOTES AMONG WHICH IS THE NEWS THAT HE HAS FLUNG HIMSELF INTO MOSQUITO CONTROL. He tells us that already they have started their planning for the 1977 meeting at Cherry Hill which will emphasize operational work and planning, with an all-afternoon session devoted to the use of helicopters. As in California, independent commissions are fighting off the encroaching hands of the politicians, but in New Jersey the current round was lost to the County Administrators and three Commissions have succumbed to the forces of centralized government. We sympathize and hope with them for better days. To add to their problems, the current concern with preservation of natural water areas obviously poses increased problems and costs for a state in which the problems are so overwhelmingly in these areas. However, they are facing the future with courage and optimism, which is obviously the best way.

ALSO FACING BRAVELY FORWARD IS MANLEY JOBBINS WHO IS NOW HOME AND EVEN GOING TO WORK PERIODICALLY. Dan resolutely climbed the stairs to the entrance of the Headlee Labs to the unabated admiration of his confreres, and Dan, you should know that everyone in AMCA joins in their plaudits.

JOHN KUSCHKE, TOO, WON A VICTORY OF ANOTHER SORT, in the Courts. His report and the proposals for meeting the problem of upland water management, of EPA certification and of operationally-oriented research may, in Henry's opinion, signal a period of benign neglect for the problems of the salt marsh which, to many of us outsiders, have always seemed the Main Event. Papers for the meeting are invited.

ALSO CALLING FOR SUBMITTED PAPERS IS CAL ROGERS, V.P. OF THE CALIFORNIA MOSQUITO CONTROL ASSOCIATION, and Chairman of the Program Committee for the 1977 meeting (the 45th annual) to be held 13-16 February at the Riviera Hotel in Palm Springs. How tony can you get? That's the month the place swarms with movie stars, society celebs and even an occasional President of the U.S. or two. But you're invited anyway. The deadline for paper submission will have passed by the time you read this, but contact Cal anyway. Or come anyway, anyway.

IN OUR CONCERN FOR THE ENVIRONMENT . . . OR RATHER IN THE CONCERN OF THE INSTANT ENVIRONMENTALIST . . . WE ARE RATHER APT TO LOSE WHAT WE HAVE GAINED IN IMPROVEMENT OF THE ENVIRONMENT BY WAY OF ERADICATION OF HUMAN DISEASES OF THE ARTHROPOD-BORNE VARIETY. The Pan American Health Organization's news letter, *In the Americas*, pointed out recently that in our hemisphere, for instance, malaria programs did not make any substantial progress in 1974, and of course, things have not improved substantially since then. PAHO points out that, as WHO has said before, there are still some 200 million people affected by malaria each year. (Of the six diseases felt to be of overriding importance to mankind, four are arthropod-borne.) In Africa alone, malaria kills about one million children each year. A Silent Spring indeed.

WE KNOW YOU READ THE AMCA NEWS LETTER CAREFULLY BUT STILL perhaps we should have pointed out back there that the excellent AMCA exhibit which drew plaudits at the International Congress of Entomology was by the Exhibits Committee, headed by ROLLIE DORER and that it is available upon request to any mosquito control organization, for display at no cost except packing and shipping charges. It is readily transported and easily put together and taken apart again.

THE SOUTH CAROLINA MOSQUITO CONTROL ASSOCIATION SCHEDULED THEIR FALL MEETING for 4 November 1976, evidently feeling that the rancors of *this* election were too languid to survive for two days after the votes were counted. MIKE LOVING promises to send word of what transpired and his note, obviously too late for this December deadline, will appear in the next issue. Our subtle way of putting the heat on Mike not to forget!

GAIL GRODHAUS and DICK EMMONS HAVE BROUGHT OUT A PAPER IN CALIFORNIA VECTOR VIEWS SETTING FORTH LUCIDLY THE REASONS FOR AND BENEFITS OF A GOOD SURVEILLANCE PROGRAM and those of you who may be having problems explaining to folks *why* surveillance is of paramount importance even if it doesn't KILL anything, may want a copy to wave in their faces. It appeared in the February issue, but just now reached us and perhaps it got to you sooner. If not, it's suggested good reading.

SEVERAL FOLKS HAVE ASKED US WHEN WE WERE GOING TO RETIRE FROM WRITING NEWS AND NOTES AND WE HOPE THEY WEREN'T BEING POINTED ABOUT IT BECAUSE Gee! We hadn't even THOUGHT about it! Not as long as the ole arthritis leaves us a finger to type with and ANY memory (we can still type purty good, thank'ee). But this being December and all, maybe we sort of *ought* to think about it, well, a very, very little bit. Because we MIGHT drop DEAD or something,

people DO, and who'd carry on? Oh, we know it's not all that big a deal. 'Most anyone could pick it right up, same as we did, if he got handed a sheaf or two of odds and ends to write about until folks started writing HIM. But *we* had Ye Ed to keep us fed tidbits (he still is doing it) and TED RALEY and TOMMY MULHERN and HARRY PRATT and other chatty and peripatetic types and they've RETIRED or, like Tommy and Ye Ed have Larger Duties and like that.

So we've thought up something and we hope SOMEBODY out there responds. How about if you all start thinking over what you've done this past season and things you've got in the works to write up, but haven't, or places you've been that other AMCA's would like noted, and WRITE 'EM UP. See if you'd like it. Polish up the old style. We know *we're* too gossipy (and we were told not to be but that's just the way we ARE) but you don't need to be . . . just Newsy. And Notesy. As Hawaiians say, "Geev 'um a try, yeh?"

AND SPEAKING OF INDEXING . . . HEY, GUYS! LET'S GET TOGETHER ON THIS, SHALL WE? IN ONE issue (Index issue, that is) we have B. *Djanbaksh*, and B. *Janbaksh* . . . and old-timer Hugo Jamnback. Who's *right* about this, anyway?

THE NORTHWEST MOSQUITO AND VECTOR CONTROL ASSOCIATION HELD ITS 16TH ANNUAL CONVENTION on 5, 6 and 7 October in Corvallis (Oregon) at the Nendels Inn and here it is the NINETEENTH already and no word on what went on! So THAT'll be in our next, too. O.K., BRAD ANDERSON . . . want to be our Regional Correspondent? (We're big on nailing folks to the wall this issue.) Just a hint, of course,

JUDY HANSEN PICKED UP OUR REMARK ABOUT LADIES IN MOSQUITO CONTROL AND AS SUPERINTENDENT OF THE CAPE MAY COUNTY MOSQUITO COMMISSION sent us a list of others we wondered about. Mrs. SHIRLEY TEN EYCK is Past President of the New Jersey Mosquito Control Association, RUTH M. ALLEN is President, ROBERT OSTERGAARD and ADOLPHE CRESCENTE are 1st and 2nd VP's respectively, and JUDY is Secretary. FRED LESSER is Treasurer. Thank you, Judy, and when you have time to evaluate your season, let us know how it was, OK?

WELL SOME PLACES IT'S BACK TO THE OLD OIL, BOYS, AS VARIOUS OTHER CONTROL MEANS FALL BY THE WAYSIDE FOR ONE REASON OR ANOTHER. But fortunately, not to the OLD oil. None of this 30-gallon-an-acre stuff. FRED ROBERTS' Alameda County (Calif.) Mosquito Abatement District reported this summer that as organophosphorus compound resistance rose and environmentalists closed in, a highly selective treatment for catch basins and tree holes, using a low toxicity petroleum product made their program not only

safer but more effective. Looking ahead to the future, though, they're trying briquets of a growth-regulating substance with slow release.

GIL CHALLET HAS BEEN FINDING HIMSELF CALLED INTO THE COCKROACH AND RAT SECTORS as concern over plague and other arthropod-borne diseases has made his constituents aware that it's a LARGE field. He also has found time to finish the first draft of the *Directory of Mosquito Control Agencies* and it looks GOOD! (It's not just a list of names . . . this one is USEFUL!)

THE SOCIETY OF VECTOR ECOLOGISTS, WHOSE MEMBERSHIP IS PRACTICALLY ONE HUNDRED PERCENT AMCA'ers, is holding its annual meeting in Fresno (California) this year on 4 and 5 January 1977 at the Hilton Hotel and we know any of you other AMCA'ers who aren't members will be welcome to sit in. DICK HUSBANDS is framing a diversified program of broad interest and JIM CATON is in charge of local arrangements otherwise. Prexy CAL ROGERS has recently appointed HARVEY MAGY as Editor of the Vector Ecology Newsletter vice DON ROHE who had retired (from editing) after years of valiant service. GIL CHALLET is Recording Secretary, if you read this in time, and he can give you further details.

WE'RE INDEBTED TO THE ABOVEMENTIONED

NEWSLETTER FOR THE INFORMATION THAT RUSS FONTAINE IS BACK FROM HIS STINT WITH WHO IN KENYA and will now be Extension Entomologist with the University of California, and coordinator of the University mosquito control research program with that of the local abatement agencies. Russ has come and gone so much (sort of like the Cheshire Cat) that we tend to lose track of just WHAT furrin country he's in at any given time, so we're glad he's back here for a spell. Since Russ was a Wheel in the Department of Health's BVC research program with DICK PETERS before Ronnie Baby busted it all up and tried to scatter the pieces (fortunately the friends of the program in the University caught most of them), he'll be well conversant with things from the very start. He's replacing CARL MITCHELL who is now at Ft. Collins.

LIKE STEPHEN LEACOCK'S FAMOUS HORSEMAN who was so broken up when his lady love turned him down that he jumped on several horses and rode off in every direction, we will now take off for BOTH the snowy mountains and the Palm Springs desert . . . both within our decrepit driving range. And we hope you have a bright Hanukkah, a Merry Christmas, a Guid Jul (if you're druids) . . . and a HAPPY and PROSPEROUS NEW YEAR!

Selected List of Abbreviations and Symbols

Used in *Mosquito News*

acre . . . spell out	kilometer . . . km
about (<i>circa</i>) . . . ca.	liter . . . spell out
active ingredient . . . AI	meter . . . m
and others . . . et al.	mile . . . mi.
average . . . avg	miles per hour . . . mph
centimeter . . . cm	milligram . . . mg
compare . . . cf.	milliliter . . . ml
cubic centimeter . . . cc	minute . . . min
cubic foot . . . ft ³	number . . . no.
cubic meter . . . m ³	ounce . . . oz
cubic millimeter . . . mm ³	per (with numerals) . . . /
cubic yard . . . yd ³	percent . . . %
diameter . . . diam	pound . . . lb
dosage mortality . . . DM	pounds per square inch . . . psi
dozen . . . doz	quart . . . qt
emulsifiable concentrate . . . EC	relative humidity . . . RH
feet per second . . . ft/sec	second . . . sec
figure (illustration) . . . Fig.	significant at 1% level . . . **
fluid ounce . . . fl oz	significant at 5% level . . . *
foot or feet . . . ft	square centimeter . . . cm ²
gallon . . . gal	square inch . . . in. ²
gram . . . g	square mile . . . mi. ²
granules, granular . . . G	square millimeter . . . mm ²
hectare . . . ha	square yard . . . yd ²
hour . . . hr	ultra low volume . . . ULV
inch . . . (spell out if it precedes in) . . . in.	week . . . wk
kilogram . . . kg	yard . . . yd