

UNIVERSITY OF MINNESOTA  
Department of Agriculture  
University Farm, St. Paul, 8 Minn.

Division of Entomology and Economic Zoology

7th Newsletter

June 25, 1943

To the Alumni in the Armed and Related Services:

Dear Alumnus:

With the close of the academic year we are again sending you our greetings and a bit of news, and telling you how much we appreciate hearing from all of you, scattered as you are over all parts of this world which now seems so much smaller than it did only a few years ago. With the tremendous changes that have come in to each of your lives since you left Minnesota probably even the expression "Academic year" may seem almost queer and to hark back to a time far removed. But at the University of Minnesota, "Academic year" has changed significance for the duration. Freshman week has just been held here in June, and the University year is four full quarters, so that entering freshmen will finish in three years.

Just as the present turbulent world conditions have come upon us rapidly with a series of violent and sudden changes forced upon us from without, we believe that after the victory is won, we will all be surprised at the rapidity with which reconstructive changes, brought about by forces within, will result in a new high in normal living conditions, and progress toward the ideals we hope to attain. We believe that your University of Minnesota is one of the powerful stabilizing factors now, and will be in the post-war period when we hope you will be back with us again to continue work in your chosen field under happier conditions.

The members of the Division of Entomology and Economic Zoology and the Office of the State Entomologist gathered for a dinner in honor of Professor and Mrs. A. G. Ruggles on Saturday, May 29th, the evening before Professor Ruggles' birthday. Professor Ruggles is retiring from the University Staff and as State Entomologist on July 1st. Mr. Thor Aamodt has been appointed State Entomologist to succeed Professor Ruggles, who will continue with the State Department of Agriculture in an advisory capacity. He is also Secretary of the Minnesota Beekeepers Association and is planning the largest Beekeepers Summer meeting ever held in Minnesota for July 24th at University Farm.

John L. Hughes' happy smile these days is due to his receiving his Ph.D. at the June commencement. John is continuing his work on the alfalfa plant bug this summer until he is called into the service.

We are sorry to announce that Ed. Thomas had a serious set-back because of heart trouble and has been confined to his home for several weeks. At the present moment he is considerably improved.

Dr. Riley expects a new group of Army Officers July 1st to take a special course in tropical medicine. At present he is taking a short vacation at Mount Vernon, Iowa.

Dean Freeman retires on July 1st. Dr. Henry Schmitz has been appointed the new Dean of the College of Agriculture, Forestry and Home Economics.

We have been without a librarian since last September 1. Mrs. Emily Fried took over the duties May 1st and is bringing order out of a chaotic situation that existed there.

Miss Dorothy Hawley, the only assistant now working on the collection, is assisting four afternoons a week in General Zoology at the Main Campus.

With best wishes and good luck to all of you, we are

Sincerely yours,

*Wm. A. Riley*  
*A. G. Ruggles*  
*Clarence E. Mielke*  
*A. A. Granovsky*  
*Harold H. Shepard*  
*W. C. Tanguary*  
*Hick Haydak*

*T. A. Ramolett*  
*A. C. Hodson*  
*Gustav Swanson*

#### News Items

Roger Anderson - 223 Federal Building, Asheville, North Carolina

We have had no news from Roger since the last Newsletter.

Sergeant Herbert C. Barnett, June 1, 1943 - Division of Parasitology and Tropical Medicine, Army Medical School, Army Medical Center, Washington, D. C.

"Greetings from Mr. and Mrs. Barnett. Spending our honeymoon home (Luray, Virginia) and having a very nice time."

Congratulations to Mr. and Mrs. Barnett.

Daniel M. Benjamin, PhM2/c, U. S. Naval Hospital Staff, Newport, Rhode Island.

Still at Newport as far as we know.

2nd Lt. A. A. Bertagnolli, 877 Chemical Company, Barksdale Field, La.

Still no word from Bertagnolli.

Staff Sergeant Everett G. Blood, Med. Det. 323 S.T.R., Fort Benning, Ga.

No news from Sergeant Blood. We are sending the Newsletter to him each time and hope that one will get through to him and that he gets a reply back to us.

2nd Lt. A. W. Buzicky, May 25, 1943 - Camp Surgeon's Office, Station Hospital, Camp Crowder, Mo.

"Your last issue of the Newsletter reached me today after having chased me about the past two weeks. Each issue increases in interest - so much so that Georgiana reads them as avidly as I do. The newsy shot in the arm was just what my atrophied writing hand needed.

"After waiting about in the San. Tech. School at Camp Robinson for about two months I finally received my traveling orders. I had expected to be sent to a P. O. E. but instead was assigned to the 7th Service Command Hq. at Omaha, Nebr. We drove up thru the heart of the beautiful Ozarks - Very near Bob "Bazooka" Burn's home town. He paints an excellent verbal picture of the 'mounting' folks thereabouts. While at Omaha I spent 2 days in the beautifully equipped 7th Service Command Lab. at Ft. Omaha. Captain Olson, the entomologist there, has done some very fine work at this Lab. and I spent a very pleasant and informative 2 days there with him. While at Omaha I learned that my next assignment would be at Camp Crowder, Mo. to take the place of Captain Gurney who is now at Camp Harahan, La. We drove to Joplin late last week so now I am officially installed as post entomologist at Camp Crowder. Captain Gurney very adequately described his duties here in his previous letters so I won't go into that now - mine are exactly the same. I had visions of being sent overseas but this is the next best bet. I am just as tickled as I can be to be back in entomological work after a year in the Army. I like this post and my immediate superiors, especially in that I have great freedom of action.

"While at Camp Robinson I was associated at the San. Tech. School with Lt. J. N. Belkin, an instructor under Dr. Matheson at Cornell prior to accepting a position with the T. V. A. on mosquito survey and control work. He was also awaiting assignment so we made the most of our two months in Arkansas by collecting at every possible opportunity. We collected all of the tree hole breeders found by Carpenter and later many of the pond and stream breeding mosquitoes in that region. I have built up an excellent reference collection and learned much about mosquitoes from Belkin who is doing his doctorate on pupal delineation of this group. He has recently been assigned to a survey unit at Camp Harahan, La.

"I was glad to see that Peters got at least part of his thesis in print. Belkin corroborated Harold's description and figure of the teeth on the paddle of A. walkeri.

"As in all cities having Army posts nearby, the housing situation is acute in Joplin. Georgiana and I have been very fortunate in being able to rent a small home in Joplin. It appears as tho the Army is going to keep me here the rest of the year."

Lt (j.g.) Richard Daggy, June 7, 1943 - Lion 1 Hospital, Navy 140, Fleet Post Office, San Francisco, California.

"I'm afraid that my 'novel'-writing days are over, not because of lack of material but because of the new censorship regulations. As of June 1st we are not allowed to mention or refer in any way our general location, climate, vegetation, inhabitants, local weather, diseases of any kind, and, of course, military information of any kind has always been prohibited. So you see my hands are pretty well tied as far as letter-writing is concerned. From now on, all that is left to discuss is personalities and entomology.

"Our unit has grown a great deal since I last wrote. Two Army groups have joined us here so we now have quite a staff. You will be interested to know that Oman has left for another base and that L. D. Christenson is here in his place. We also have a new parasitologist, formerly teaching at L.S.U., Capt. Harry Bennett. He knows Dr. Riley from contacts at meetings, etc. Chris. is just getting settled, but we're looking forward to some field trips together in the near future. We've divided our forces somewhat so that the two divisions of our area now have equivalent staffs. With all of our additional men and equipment, we should have the problem pretty well licked before another season rolls around.

"I was especially interested to hear that Denning lectured to some of our new men and showed them something about anophelines in Louisiana before they came out here. Its very curious to see how far-reaching this entomological fraternity is and how inter-connected we all are even though separated by thousands of miles.

"Our laboratory and offices are moving to a new location in the next week or so -- hence the new address. Any mail addressed to the old one will still be received since our new location is only a mile away.

"I'm just packing for another trip that will probably rival the one of last March as far as interest is concerned. I only hope that by the time I return the censorship will have been relaxed so that I can tell you about it. At any rate I'll write it down so I can tell you all about it when I see you next time."

1st Lt. Leroy D. Christenson

Indirectly we have learned that "Dean" is now working along with Daggy.

Lt. Reed Christenson - Army address unknown.

1st Lt. Walter Connell, June 2, 1943 -22nd Malaria Survey Unit, Army Service Forces Unit Training Center, New Orleans, La.

"The last copy of the 'Newsletter' that I received carried a remark about my transfer here from Camp Campbell. This letter is to confirm that rumor and to give my new address.

"There are several units here similar to this one, each has an entomologist and a parasitologist with it as well as a number of enlisted men. Some of the latter have had training in these or other biological fields. All are receiving additional training. We are handicapped somewhat in the training program by the scarcity of malaria in the area. On the other hand, we are fortunate in that some of the schools here, Tulane, Loyola and L.S.U. are aiding us by loaning the use of laboratory facilities and material for teaching the parasitological and entomological technicians. Also the U.S.P.H.S. men here are providing invaluable assistance with demonstrations of various types of anopheline control work.

"I suppose you know that Capt. Gurney is here with one of the units. I have seen Denning and Harden of the U. S. Public Health Service Several times. A few days after I arrived here Denning arranged a very pleasant instructive interview with Dr. Faust for Gurney and a couple more of us. At the conclusion of our talk Dr. Faust left us in the museum maintained by the School of Tropical Medicine. This contains some excellent exhibits and we took the time to make a hurried examination of some of them.

"My wife and I get a chance to visit about through New Orleans together once in awhile. We both just about have decided that it is our favorite city, at least for visiting. It is such an unusual and unexpected place to be a modern American City. It is quite warm here, but I suppose that was one reason for selecting this area for training Malaria Units. It hasn't really been uncomfortable so far, but I wonder sometimes what it is like here in July and August."

The division has just received an announcement of Walter Connell's marriage on May 1st to Eleanor Godfrey Abbott. Congratulations to Mr. and Mrs. Connell.

Dr. Donald G. Denning, May 2, 1943 - Assistant Entomologist (R), U. S. Public Health Service, State Board of Health, Columbia, S. C.

"While in Atlanta recently I was told that the Navy is sponsoring the publication of an atlas to the Anophelines of the World complete with illustrations of adults and larvae. As I understand it, it is being published by one of the Entomological Societies at a very low cost."

(Editor's Note) - The "Mosquito Atlas" will be published in two parts by the American Entomological Society of Philadelphia. Part I has been in press for at least a month. It will treat of the New World Anophelines. The manuscript has been prepared by Lt. Roberts and Ross of the Sanitary Corps of the Army, assisted by Dr. Stone of the U. S. National Museum. Part I consists of 48 pages and a substantial cover to which the sheets will be wire stitched. Copies may be obtained for 60 cents by writing to Mr. James A. G. Rohn, American Entomological Society of Philadelphia, Logan Square, Philadelphia, Pa.

Donald Denning - May 16, 1943

"Last week a group of seven of us, including Captain Gurney and Lt. Connel visited Tulane Medical School, had a nice visit with Dr. Faust and enjoyed their museum on Medical Entomology and Parasitology.

"Thanks to the Division for the Newsletter. Loretta and I look forward to each edition - receiving them means a lot to us."

Donald Denning - May 28, 1943

"This morning I received notice that I am to be transferred to South Carolina. Will be stationed at Columbia and as I understand it will have the entomology work for all the state projects."

Donald Denning - June 6, 1943

"I left New Orleans June 1 on temporary duty at Columbia. Intended to stay until I could find living quarters, and since I have just found a fairly satisfactory place I am returning to New Orleans Tuesday. We will probably leave New Orleans by next weekend for permanent assignment here.

This state and Columbia seem to be very interesting. I enjoyed stopping a couple of days in Charleston.

Warrant Officer Edwin Dery, June 8, 1943 - 487th Engr. W. Sup Bn., A.P.O. 545, C/o Postmaster, Los Angeles, Calif.

"Ants of all sizes are very abundant. A drop of water on the floor of any building will attract hundreds. Last week I acquired some black widow spiders and young. I set several jars of specimens on a shelf last Saturday. Monday morning I discovered that some small red ants had invaded the jars and killed most of the spiders."

"The past three weekends I spent travelling in the mountains. High in the mountains I found large fields of ripe wheat, oats, and barley. Beautiful green valleys stretched from one mountain to the other. Tall pine and cedar trees majestically graced the plateaus. I spent a few hours last Sunday fishing in a small lake about eighty miles from here. My luck was poor but it was great sport."

H. Rodney Dodge, U. S. Public Health Service, P. O. Box 1095, Macon, Ga.

Dodge is still controlling the Georgia mosquitoes so far as we know.

Harold Elishewitz, June 11, 1943 - Naval Medical Research Institute, National Naval Medical Center, Bethesda, Maryland.

"I've discovered that the U.S.D.A.'s 'Index Catalogue of Medical and Veterinary Zoology' is one of the most amazing gold mines of information in existence. It is not generally realized but every paper, book, and journal received by the USDA library, the Surgeon-General's Library and the Library of Congress is indexed, cross-indexed, and page indexed by the B.A.I. library staff. Every time the name of a parasite appears in print a card is made for it, with author, journal, and page references as well as host and geographical distribution data. The complete bibliography card is found in the author index. To give an idea of the magnitude of the task: there are over 12,000 cards to the genus Ixodes alone - six long drawers full of citations, each indexed according to the species. Papers in every language back to the middle of the 19th century are abstracted. The librarian told me that some books require 9000 cards each. Every monograph on ticks as well as the great majority of published papers is thus indexed. Complete as it is, however, it is not infallible and I'm still busy tracking down leads which I don't believe that they have abstracted."

Lt. W. A. Elkins O-917725, 73rd Bomb. Squadron, A. P. O. 986, C/o Postmaster, Seattle, Washington.

"The Entomology and Economic Zoology newsletter arrived today and I was plenty pleased to get it. Lots of good stuff in it and the boys are really getting around aren't they?

"I'm still enthusiastic about this country and have moved around a good deal as can be judged from the various addresses.

"My work is fascinating and I mean that, I'll have some stories for you when this war is over. I guess most of it can be told then. The Army, of course, is the Army but anyway field rations keep one from the pudgy shape and wasteline bulge.

"We've been having a little rough and rugged time lately but I'm still right side up and in good shape.

"I'm not in a position to tell you much about the flora and fauna here much as I know you'd be interested. Censorship is necessarily rather rigid in this combat zone."

Captain Frank W. Fisk, April 14, 1943 - U. S. Public Health Section, A.P.O. 689, C/o Postmaster, New York City, N. Y.

"The Minnesota Entomology Newsletter comes through better than the news sheets from either the University of Illinois or the University of California so you can be right proud of your service. I hope Minnesota will continue something like that after the war.

"Major Jellison is located not far from us, but with a different project. He is also on anti-malaria work.

"As I probably mentioned in the last letter my work is right out in the 'sticks'. (My home and 'headquarters' is a thatch-roof bamboo 'basha' and I am typing this on a portable typewriter by the light of a pressure lamp.) Just now it is raining--it does a great deal of that around here --- 100" or so during the year, and most of it in the next few months. This is tribal

'unadministered' area in peacetime so that outside of our own camps, a few villages are the only inhabited places about. The town at the Base is the nearest link to civilization. Under such conditions we are attempting larval control only at the Base and one or two spots in the forward area. Beyond that, flitting for adults, bednets, proper clothing, mosquito cream, etc. will have to turn the trick. If not, the hospitals are ready."

Ensign C. Gordon Fredine, H-V(S), U.S.N.R., Medical School, Nat. Naval Medical Center, Bethesda, Maryland.

Ensign Fredine visited here at University Farm the week of June 13. He had finished his training at the Naval Medical Center, Bethesda, Maryland and in Florida. It is possible he may be taking a long trip.

Captain A. B. Gurney, Sn.C., May 2, 1943 - 23rd Malaria Survey Unit, Malaria Training Center, New Orleans Staging Area, New Orleans, La.

"Greetings from the Sunny South! The transfer here, following the course in Florida, about which I wrote a few weeks ago, was not in itself surprising but it was a little sudden as I was about to go through New England on my return to Camp Crowder. The Florida course touched on nearly all aspects of malariology, other than medical treatment, and it will be very valuable in the new work being undertaken. A number of entomologists, parasitologists, etc. are here, and, in spite of the uncertainties and risks involved in going overseas, I know that most of us wouldn't miss the opportunity for the world.

"The other day I spent some time with Don. Denning who, as you know, is working on U.S.P.H.S. projects in New Orleans. In fact a lieutenant now associated with me was formerly working with Don. in the Philadelphia area, so the world is pretty small after all."

Captain A. B. Gurney, June 8, 1943

"I recently had the pleasure of attending a dinner at which Major Hertig gave a fine illustrated talk on his civilian Verruga fever work in Peru. This was very interesting to me.

"About the middle of May I obtained leave and visited my wife in Buffalo and my family in Massachusetts,. The weather up that way is certainly different from what it is down here in the deep South. It was my first trip north of Missouri in more than a year. A northern climate is pleasant for a change. Right now we are having a lot of hot, humid weather around New Orleans.

"You perhaps know that Lt. Buzicky has my old place at Camp Crowder. The Sanitary Corps is bringing a lot of entomologists together who have not been acquainted previously and it may make for added unity of entomologists after the war as some feel that we should establish certain standing or expect certain recognition in medical circles (afterwards).

Sergeant Merle Hansen, 203rd General Hospital, Fort Lewis, Washington

Correspondence to Dr. Riley from Sergeant Hansen indicates that he is encountering some interesting parasitological problems.

Philip H. Harden, May 9, 1943 - Assistant Entomologist (R), U. S. Public Health Service, 207 Civil Courts Building, New Orleans, La.

"Things are running quite smoothly for 'Malaria Control' around New Orleans. A long dry spell has dried up a lot of our water surfaces. Some of our swamps are still quite favorable breeding places and so we don't lack for something to do.

"New Orleans is still being used as a center for Malaria control training by the Army; we have been privileged to assist in this program, by conducting field trips for groups of both enlisted men and officers, showing our methods of control and inspection.

"Sylvia Rae is doing fine as you might judge by the enclosed picture. She has almost doubled her weight in two months; she seems 'right' pleased with her dad and mother (listen to this proud papa rave).

(Editors note - Sorry we cannot reproduce the numerous pictures that are sent to us by the readers of the Newsletters).

Major Marshall Hertig, Gorgas Memorial Institute, Panama

Major Hertig has been transferred to the Gorgas Memorial Institute in Panama.

1st. Lt. Paul Highby, A.P.O. 4166, C/o Postmaster, San Francisco, Calif.

1st Lt. Paul Highby finished his training at the Army Medical School in Washington, D. C. in May and was due for a long boat ride. He was a visitor at University Farm for a few hours the last of May.

Pfc. John D. Hitchcock, New Orleans Staging Area, New Orleans, La.

Captain Gurney reports that John is now in the New Orleans Staging Area with one of the malaria units. John writes "I feel more 'at home' in this work than in a hospital and trust I may be of service in it."

Professor Wm. E. Hoffmann (Interned in China by Japanese)

Messages are coming through from Prof. Hoffmann to his brother Clarence.

Major William L. Jellison, AP0 629, C/o Postmaster, New York, N.Y.

Major Jellison is still carrying on his work in the Orient. No recent news.

Corporal Thomas H. Johnson, Jr., May 18, 1943 - 16th Malaria Survey Unit, ASF, UTC, NOSA, New Orleans, La.

"I enjoyed very much reading the last issue of the Entomology News. Since my last letter I have been very busy. I have had the pleasure of listening to and seeing the work of two former Minnesota students. Captain Gurney has given a number of lectures and demonstrations on the characteristics and control of Anopheles larvae. On one of the field trips to a U. S. Public Health Service Control Center a certain lieutenant came out and gave a wonderful lecture on problems in controlling Anopheles in swamp districts surrounding a number of factories in this vicinity. He had on shades and though I was familiar with the voice I could not recognize him. Then we went to one of his light traps that was located in the shade, he removed his glasses and to my surprise it was Lt. Harden. He was so engrossed in explaining his work that I did not get a chance to speak to him. I understand that he has quite a collection of mosquitoes but I also heard him drop a hint that he would appreciate getting any Plecoptera that happened to stray into mosquito traps.

"My training period is almost over. They have given us much information concerning the survey and control of mosquitoes and I am very anxious to get some place so, I can see how it works."

Tamarath Knigin (Mrs. Stanley F. Yolles) - Malaria Laboratory, Office of Sector Surgeon, A.P.O. 868, C/o Postmaster, New York, N.Y.

No recent news from Miss Knigin.

Herbert Knutson, May 24, 1943 - Assistant Sanitarian (R), U. S. P. H. S., Room 6152 Municipal Bldg., 3rd and C Street, N.W., Washington, D. C.

"I was sent to the Atlanta office, stayed there three days and was then sent up here (Washington) on temporary duty. The work consists of airplane dusting of the Water Chestnut areas of the Potomac River; this plant provides a good brooding place for A. quadrimaculatus. I look forward very much to the work.

"Needless to say any one from the Division of Entomology and Economic Zoology who may be in Washington this summer is most welcome to visit us. The home address is 8403 - 16th Street, Apartment 206, Silver Springs, Maryland.

Private Rudolf W. Kogan, Co. A., 1st Armored Repl. Bn., 4th Platoon, A.F.R.T.C., Fort Knox, Ky.

No recent news from Kogan.

Captain Glen Kohls, Army Medical School, Army Medical Center, Washington, D.C.

Captain Kohls has been so busy getting in the groove at the Army Medical School that he has not had time to write.

Lieutenant (j.g.) Gerhard Kretzschmar, District Coast Guard Office, 310 N. Washington Square, Philadelphia, Pa.

Kretzschmar was a welcome visitor at University Farm one weekend the latter part of May. It was his first leave since July 1942 and he appeared to be enjoying himself.

Lt. Kretzschmar, June 1, 1943

"I'm back at the same old routine once more after my few short days of respite in Minnesota. It's surprising what a few days like that can do for one's spirits.

"I found my promotion to Lieutenant (j.g.) awaiting me upon my return here. In fact it was dated for the very day I left for Minnesota.

"We are kept pretty busy these days. Our training officer feels and rightly so that very few of us get a sufficient amount of exercise. So - two evenings a week we are ordered to play ball or participate in some sports. One evening we go horseback riding and then we have classes on seamanship, navigation etc. on two nights a week. Oh well, there are still two evenings a week we can call our own.

"I probably mentioned this when I stopped at the Farm but it bears repeating. I certainly enjoy reading the Newsletter. It's the kind of a letter which can be read and reread and it is still interesting. I shall make every effort to see to it that terse statement - 'no word since' - does not appear coupled with my name again.

Lt. (j.g.) Horace Lund, Naval Air Station, Elizabeth City, North Carolina.

It has been a long time since we have had any word from Horace but so far as we know he is still at Elizabeth City.

Ensign John T. Medler - H-V(S), USNR, Yard Dispensary, Mare Island,  
California  
June 24, 1943

"It occurs to me that I should write now, or perhaps I might miss the next edition of the newsletter. Although I cannot offer the travelogues and stories of adventure that other Minnesotans can give, I can let you know that I am still at the Navy Yard. My work is interesting and I keep very busy. Perhaps some of my experiences will be of news value.

"I do not remember if I have told about our living conditions, and in these times such an item seems to be of universal interest. I found a cottage near St. Helena, and I spend my time partly there and partly at quarters at the Navy Yard. St. Helena is a small town about 30 miles north of Mare Island. It is located near the end of a long narrow valley, the Napa Valley, which is the source of the best wine in California. The vineyards fill the level part of the valley and even are located on the slopes of the mountains to each side. One sees many small wineries, and also several larger ones. These latter have in most cases been taken over by the large whisky companies, e.g., Schenly's have taken over the Cresta Blanca plant near St. Helena. The wine is supposed to be so good because the grapes are grown without irrigation and therefore are much sweeter than the grapes grown in other sections of the state under irrigation. To the north of the Napa Valley is the Russian River country, which is the oldest settled part in California, being a Russian colony before the gold rush days. Much fruit is grown there, and it is supposed to be a resort section. We have not yet explored it because of the gas rationing but perhaps someday we can take a trip and see it firsthand.

"All of the above is given to show that we are located in a rural and peaceful environment somewhat in harmony with our bucolic temperament. It is in great contrast to the crowded conditions around the Bay Area. The shipyards, navy yards, and other war industries have created an acute food, housing and racial problem in the Bay Area. One must stand in line to buy food, and many times there is little to choose from. The goods in stores are of poor quality and outrageous in price. We feel fortunate in our location away from this crowded area. I commute by a Navy Yard bus at a reasonable fare and am away from it all in an hour's time. We have the distinct advantage of buying at the commissary and therefore do not experience the discomforts I have mentioned. We were able to buy a new frigidaire "cold wall" and can keep our food for long periods. Pricilla makes a trip down to the commissary every two weeks or so and this is usually sufficient for our needs, but I must say that we give the appearance of buying out the store on such excursions.

"The environment is good for the children, and Merrie and Mike are thriving. The enclosed snaps will give you a recent view of them. Mike will be 6 months old in a few days. Navy life agrees with me. For many years I have maintained a constant weight on the lean side and now I have gained fifteen pounds. If that is the story after only a few months, perhaps I can catch up with Knutson or Daggy if I try. I maintain that the added pounds do not show but Pricilla accuses [accuses] me of a waistline bulge. I feel all the better because of the added reserve energy. After the next fifteen pounds I may consider a diet or more exercise, although no doubt it will melt away in a hurry should I be sent to the tropics.

"My mind has been speculating on the possibility of this tour in the tropics during recent weeks. There is scuttlebutt rumor around that many changes in stations will be made on July 1. Will I remain here or be sent there (meaning anywhere) is the main thought in most minds now. We shall soon know - but then, one can expect orders to a new station at anytime in the Navy.

"I expect that the main topic should concern mosquitoes, for it seems that most of us are in that work now. The problem at Mare Island is not bad. I act in an advisory capacity only. We get a report that people are being bitten by mosquitoes. I then make a survey to find the source. When the breeding place is found I make a report which is forwarded to the Department of Public Works, which does the actual control work. Naturally it is now a very efficient set-up but since the problem is never bad, it seems sufficient. I did find one bad place. That discovery was a simple task because of my experience with the dairy farms in the Porterville work.

"To the north of us is a rather extensive salt marsh area, which in years past has been a source of many mosquitoes. In cooperation with the local County Mosquito abatement district I survey this area. The land is mostly leveed, but some unleveed areas give trouble after the exceedingly high tides. I looked over the area before the June high tides and found no breeding. The tides are over now, and a survey showed that Aedes dorsalis Meig. were breeding in tremendous numbers in several places. The Navy Yard has contracted for larviciding by an airplane in the area, and this is a good chance for me to see how effective this type of control work can be.

"The salt marshes in many places are private duck shooting clubs owned by small groups of rich men. The leveed portions are controlled by tide gates. The water is either kept off the land during the mosquito breeding season, or a constant water level is maintained. It seems to be a very effective method of control. During my first survey, which had to be made in a boat with a 'kicker', we stopped off to visit the keeper of one of these clubs. He showed us a good fishing hole and let us try our luck. (No fishing licenses are needed in this state if one is in the services.) In a short time I hooked an 8 pound striped bass and my companion hooked a 7 pounder. It is great sport to catch so large a fish on a small rod. It takes about fifteen minutes of hard work to land such a prize and it is real sport. My left wrist was tired for several hours afterwards. I got a great laugh at the dispensary when I got back from the survey and showed off my fish. Several of the doctors wanted to learn the art of 'mosquito' hunting after that.

"My main project, the compilation of the literature relating to the mosquitoes of the Australasian Region, is coming along nicely. My one regret is the lack of specimens, but I am able to get a good idea from the written descriptions and available illustrations. I have prepared or am now preparing my own keys and descriptions, and hope to remedy the lack of actual specimens by a first hand knowledge in the future. I use the library on the Berkeley Campus and the library at the Medical School in San Francisco of the University of California. In recent weeks I have been checking through the *Geneesk. Tijd. Ned. Ind.* I find that reading Dutch is not a hard task. With a little practice and the use of a dictionary I have managed to learn enough so that I can read fairly rapidly. Of course, it is not so hard to read articles relating to a subject in which one can sense the context, even if one does not know all the words. This holds true especially in the technical descriptions and keys.

"It seems to me that the literature relating to the Culicidae in that region is very much out of date. Taxonomically, the latest works known to me are: Swellengrebel and Rodenwaldt-"Die Anophelen Nied-Ostind", 1932: Edwards, in Gen. Insect. Fasc. 194, 1932: and Taylor's Check List, 1934. There are numerous scattered papers, but a surprisingly few have been published in the last ten years. Biologically, there seems to be a tremendous mix-up in forms and races found in the region, especially in the genus Anopheles. Of course, it must be realized that the Australian is a tremendous Region, and that probably it has been exceedingly difficult to make collections and extensive studies. I hope that entomologists in that area will take the golden opportunity to work on all mosquitoes while there, for any work may solve some perplexing problem.

"My copies of the newsletter are out on loan to Dr. Hoskins and Dr. Stewart at the University. They are much interested in them. Dr. Stewart is acquainted with many of the old-timers. He is teaching all of Herm's classes while Herms is on active duty. He is especially interested in building up a collection. The Army and Navy utilizes him for teaching doctors out here on the coast. He emphasizes the fact that an entomologist should control all mosquitoes in advance areas by all available methods, but of course common sense enters into the practical application of this dictum. But with 30-odd species of mosquitoes capable of carrying filaria, including anophelines as well as culicines, and many of our forces in practically unexplored country, it is perhaps well to keep in mind that a shot-gun may prove more effective than a squirt-gun. And it must be realized that the established methods of mosquito control do not apply equally to a man in a fox-hole or pup tent, and a man in a screened barracks behind a zone of operations.

"There are, a few receding streams near St. Helene, and I have been able to collect some A. punctipennis Say. I have the opportunity to try some feeding experiments with the adults that I rear. The doctors let me know when a case comes in, and I bring my mosquitoes around and let them feed. I have not had much success yet, due perhaps to a lack of technique, adequate numbers of mosquitoes and optimum conditions for the experiments. However, I hope that I can get some results, for I wish to find out if the California A. punctipennis will pick up the parasites as efficiently as the forms in the rest of the country. Also, I wish to obtain some demonstration material for use in class demonstrations.

"This next week I shall give some lectures to corpsmen on entomology, with particular emphasis on mosquitoes. There is also a deal on that I give some lectures to the corpsmen at the Naval Hospital. I hope that this can be worked up into a regular course for each group of corpsmen, but I do not know about that yet.

"One of my colleagues here is a Sanitary Engineer. He makes weekly inspections of the milk and water, as well as food inspections. I am his understudy, and my apprenticeship has payed dividends. He is being married this weekend, and I am to carry on the work while he is on leave for a honeymoon. It means getting up at 0515 one morning a week in order to get around to 9 barracks or cafeterias before chow so that samples can be collected. My duty with regard to checking upon civilian absentees is almost nil. The word has apparently gone around that a check is made on persons with a bad record and a suspicious sick lay-off.

"This letter has run its course, and I take the opportunity now to give my regards to all the staff at 'home' and all the fellows 'out there'. Good luck and best regards to all of you."

1st. Lt., Herbert E. Milliron, April 23, 1943 - 1560 Service Unit, Medical Section Station Hospital, Camp Atterbury, Ind.

"In every respect I enjoyed my leave very much and as it drew to a close there was a feeling of reluctance about returning to my post at Atterbury. On my return trip to Camp Atterbury from St. Paul I stopped over at Purdue. While there I was introduced to the current year's Corn Borer Program. Dr. Deay is rightfully going into the work with an open mind with respect to debatable problems, and I believe he shall do the job well.

"During a short stay in Chicago I checked through the excellent Strecker collection of Lepidoptera."

H. Page Nicholson, Assistant Entomologist (R), U.S.P.H.S., 300 Essex Bldg., Norfolk, Va.

It has been a long time since we have heard from Page and we hope the Virginia mosquitoes will let up just a little bit so that he can get time to write.

Captain William B. Owen, Army Medical School, Army Medical Center, Washington, D.C.

There has been no news from Captain Owen.

Major Reginald H. Ozburn, June 8, 1943 - R.C.A.M.C. A.M.D. 10, Research Division, Elgin Bldg., Ottawa, Ontario, Can.

"I was very glad to get the copy of the Newsletter, as from time to time I do bump into the odd graduate student from Minnesota.

"I was very glad to meet Elishewitz at the meetings of the New Jersey Mosquito Extermination Association in March and to have some recent news of the members of the biological staff of the U. of Minnesota.

"Almost two years ago I mobilized the 63rd Battery, R.C.A. and had the usual trials and vicissitudes in forming a new unit from civilian recruits. For a while, we were on the west coast for defence purposes, and while there I did meet two graduates of the U. of Minnesota serving with the American forces, one an engineer and the other doing accounting in connection with stores. Unfortunately, however, I misplaced their names and addresses. From the west coast the battery was sent east, apparently on their way overseas. Shortly after arrival east, I was transferred to the Medical Corps, retaining the rank of major to serve with the R.C.A.M.C. as entomologist. This is rather new departure in the Canadian Army as problems of an entomological nature have always been handled by the Hygiene and Sanitation Section. My duties seem to be largely of an advisory nature with research work on the side on problems relating to insects. I must admit it seems like old times getting back to entomological work after 18 months as a battery commander."

Lt. (j.g.) Calvin Pederson, H-V (S), U.S.N.R., Malaria Laboratory, U. S. Navel Air Station, Navy 1171, Fleet Post Office, New York City, N. Y.

Calvin was home on leave the first part of June and was a visitor at University Farm. It is certainly an inspiration to the staff to have you men stop here on a visit whenever the opportunity offers.

1st. Lt. Harold T. Peters - Station Hospital, Camp Pickett, Virginia

Lt. Peters was a visitor at University Farm the latter part of May.

May 31, 1943

"My ten day leave was really a very enjoyable one and I got a chance to

see many of my friends without rushing so much, but I don't suppose it would make any difference how long a leave was the time would seem altogether too short. My brother was married in Minneapolis on the 18th and he and his bride now reside in St. Louis. It was very fortunate that I was able to be there for the wedding as such timing when two parties of a family are in the armed service is rather a coincidence than the rule.

"My extra days (over the maximum six) were granted so that I could do some work in the library and to the surprise of some of my associates I actually did get most of the work in that category done. Already it has stood me in good stead. The day I arrived back here I used one of the keys I had copied to identify a tick. It turned out to be Amblyomma americanum, the Lone Star tick. "Today I was again called upon to be a herpetologist and identify a snake that had been brought in. They are afraid of the Cotton Mouth Moccasin around here and are bringing several specimens in order to determine how prevalent it is. I really wish they would bring in a specimen of that species as I have never seen one to date.

"Although my work is still that of laboratory officer at the G. U. Clinic I managed to squeeze in a little entomology recently. There was considerable breeding of some culicine mosquitoes behind the officers mess and I took some samples to see what it was and call it to their attention. The water was pretty foul and the mosquitoes were Culex restuans (C. territans Walker). My acquaintance with the anophelines is still confined to the single smashed specimen of A. punctipennis which one of the officers caught in his room a month or more ago. I am anxious to know if Capt. Krombein has his New Jersey traps in operation yet. I want to go through some of the catches he gets..

"Recently I have taken the opportunity of going to the operating room to observe some of the operations. It is purely voluntary and only that I realize that I may never get such a good opportunity again. So far I have seen some of the commoner ones -- appendectomy, hemorrhoidectomy, herniorrhaphy, pilonidal cyst, cystoscopy, and a few others. It has all been very enlightening but is done purely as an 'extracurricular' activity.

Allan Peterson, Assistant Entomologist (R), U.S.P.H.S., State Board of Health, Jackson, Mississippi

No recent news from Allan.

Major C. B. Philip, A.P.O. 4121, C/o Postmaster, New York, N.Y.

Since Major Philip is now in parts of the world unknown it may be some time before we have any more news to report from him.

1st Lt. D. J. Pletsch, M.D.R.P., M.R.T.C., Camp Barkeley, Texas

Apparently Don has been up to his neck in work since nothing has been heard from him since the last Newsletter.

Harry D. Pratt, Assistant Entomologist (R), U.S.P.H.S., District 6, San Juan, Puerto Rico.

June 27, 1943

"It is good to get the news of the boys scattered all over the world and to learn of the various promotions, changes of address, and all the new men entering the armed forces.

"Pritchard and I have finished the first draft of our light trap-bait trap paper and are sending it in to the Surgeon General for approval for publication. It will include considerable data on three species of Anopheles and a list of Culicines taken at light traps--some of the data on the Culicines being the first such data for these species of Culex, Aedes, and Psorophora. I have some interesting work too working over a collection of mosquitoes that Dr. Hoffman made two years on the island of Santa Lucia.

"We have been experimenting with an animal bait trap thatched with cat-tail, palm, or saw-grass to see if we could get good collections of Anophelines in such a trap rather than in the regular Earle or Magoon traps made of plywood, finished lumber, and galvanized sheet metal. All these materials are now difficult to obtain, and probably will get more so during the coming years. You might mention to any of your classes that the tropical Anopheles can be collected in such traps in considerable numbers and that the only things actually needed which cannot be obtained in 'brush' are the screen in the upper part of the traps and the 1" by 4" boards used in making the V-shaped entrance openings."

A. Earl Pritchard, Assistant Entomologist (R), U.S.P.H.S., A.P.O. 848, C/o Postmaster, New York, N.Y.

Dear Earl: - Please write.

Mrs. A. Earl Pritchard, Grand Forks, N. D.

The following news item is taken from the Fargo, North Dakota Forum for May 23, 1943.

"Rescuing pigs, big and little, and other livestock from a burning barn isn't exactly in her line, but that's what Mrs. Margaret Opp Pritchard, former Clay County home demonstration agent and 4H club leader, did recently.

"In a letter to Miss Ellen M. Anderson, Clay County superintendent of Schools, Mrs. Pritchard, who is now associate county agent for Grand Forks county said she was returning from a meeting late at night when she saw a fire in the barn on a farm near Grand Forks.

"She attempted to awaken the family, but was unsuccessful and a wary dog barred her entrance to the house. Then a car came down the highway and she waved the driver to stop.

" 'I yelled at him to chase the pigs and the horse out of the barn while I kept pounding on the door' she wrote.

"Finally the man of the house awakened and asked what she wanted. I yelled 'the barn is on fire' then I ran out to help get the livestock out. Well when it was all over we had saved 160 large sows, a litter of 12 or 15 small pigs and one horse. The entire barn burned down, also the pump shed and two straw houses for the pigs."

"The farm, Mrs. Pritchard said, is owned by Ole Flaot of Crookston and the tenants were a young couple married only a year, 19 and 17 years of age.

"The man who stopped by, she said, 'was a minister and he sure got some action into his rescue work. We carried the little pigs out one at a time in our arms. A half hour later and all the stock could have been lost.' "

Lt. Don C. Quimby, Btry. K-216th C.A. (AA), San Mateo, California

"I'm still with the same outfit and have approximately the same responsibilities. We keep thinking here that we are due to go anytime but as yet it hasn't come through. Now and then they pick a few for overseas duty on short notice. Therefore one can never tell just when his time is coming."

Corporal Morris Rockstein, May 31, 1943 - 35th T.SS. AAF, Pantlind Exhibition Bldg., 5th Floor, Grand Rapids, Michigan

"We are being plunged so quickly into new phases of a complex study that one wonders how it is possible to turn out so many competent forecasters (and they do).

"The school out here is the nearest thing to University life one can find (under Army conditions). The people in Grand Rapids are very cordial and friendly, and outside of the Twin Cities, I have not found a friendlier town. Prices are fair and recreation plentiful. Since we are not far from the countryside I hope to spend a Sunday in the near future, doing a little collecting."

2nd Lt. Hugo G Rodeck, ACTTC, OTS, 2609 Collins Avenue, Miami Beach, Florida

Lt. Rodeck is going through a strenuous course of training at Miami Beach. So strenuous in fact that some revisory work on his thesis which he had planned to do in his spare moments has had to go by the board.

Dr. John Stanley, Canadian Army Address unknown

Major Ozburn sends us the information that John Stanley is with the R.C.A.F. as an administrative officer.

Captain Philip M. Schroeder, R.O.T.C., University of Minnesota, Minneapolis, Minn.

Captain Schroeder is being kept busy these days with additional duties assigned to him in connection with the army educational program at the University of Minnesota.

Sergeant Irvin B. Tarshis, May 14, 1943 - 143rd Station Hospital, Camp Bowie, Texas

"The Newsletter you were so kind to send me was thoroughly enjoyed. Each piece of news brought back a fond memory. I often wondered what happened to some of the students I met at the Farm Campus, the Newsletter has given me most of the answers. I think the newsletter is a grand idea and I believe most of the other men in the service are of the same opinion.

"My furlough is nearing its end, but it has been grand I have enjoyed myself so much. It is good to get away from camp every so often. I am due back at camp, Friday, May 21.

June 2, 1943

"The weather down here has been beastly warm. It does cool down in the evenings, but during the day, it gets so very warm it is hard to do anything but sleep and be lazy."

1st. Lt. E. R. Tinkham, Sn. C., Station Hospital. Boca Raton, Fla.

No recent news from Lt. Tinkham.

Captain F. G. Wallace, 0-483053, June 4, 1943 - First Medical General Laboratory, A.P.O. 3385, C/o Postmaster, New York City, N. Y.

"I recently arrived at the new station. The trip across was so simple and uneventful (for us passengers at least) that I don't feel very far away. In many ways it was different from a peace-time voyage - mainly in the crowding - but it was very pleasant. The countryside is as beautiful as ever and to the newcomer there are few indications that the country is at war. Our station is beautifully situated by a picturesque old town and I have a view of rolling green fields and hedge rows from my window. The establishment is far beyond anything we had hoped for in facilities and opportunities for useful work though we haven't yet had time to do more than find our way around.

June 13, 1943

"We are now settled down somewhere in England and are ready to start work. The buildings and equipment we have are ideal and there couldn't be a more comfortable place to live. If I described all the luxuries we enjoy you wouldn't believe this is still the Army.

"Censorship regulations will not permit me to tell you much about our work but I hope to have many interesting things to tell you when I get back."