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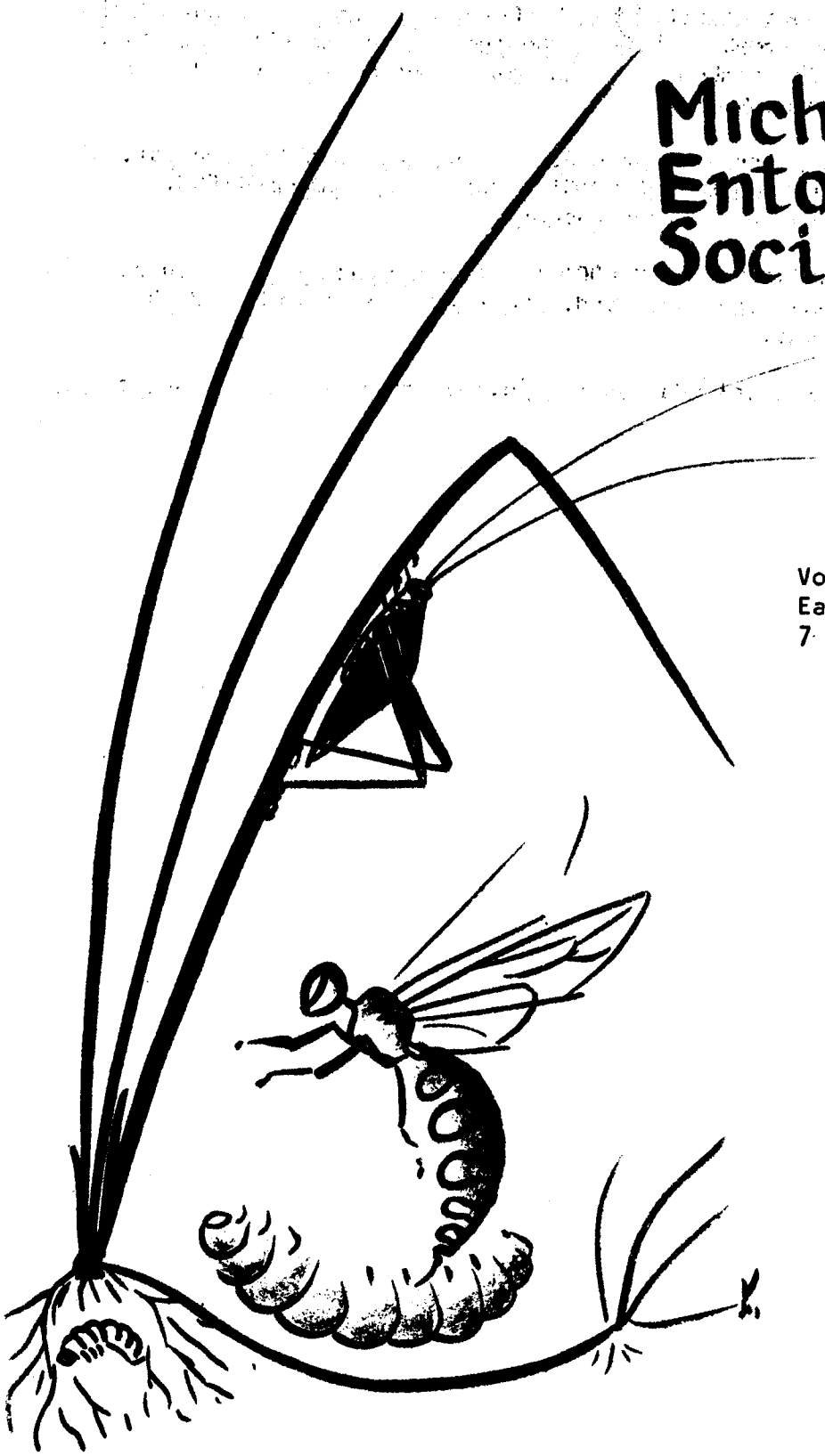
Newsletter

Michigan Entomological Society



Volume 10, Number 4
East Lansing, Michigan
7 December 1965

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NOTICES

1. An amendment to the Constitution, more elaborate than that proposed at the 1965 Annual Meeting but designed to allow us the Internal Revenue Service status of a Non-Profit Organization, has been prepared by the Governing Board. A copy of the amendment will be mailed to all members before the 1966 Annual Meeting, at which time it will be discussed by the membership. The amendment will be voted on by mail ballot after the 1966 Annual Meeting.

2. Hollace "Bud" Gordinier of Warren won the Society's recent emblem contest. The design will be used on THE MICHIGAN ENTOMOLOGIST and on future NEWSLETTERS. We are grateful to Bud for his interest and support.

3. The first number of THE MICHIGAN ENTOMOLOGIST will be published as soon as enough suitable manuscripts have been received. Contributors should read the "Editorial Policy" in this issue.

4. Dues are now payable for the calendar year 1966. Please check your dues status on the last page.

EDITORIAL POLICY OF THE MICHIGAN ENTOMOLOGIST

THE MICHIGAN ENTOMOLOGIST will be distributed to a large number of domestic and foreign institutions, as well as to all Active Members of the Michigan Entomological Society, an organization consisting of people with a variety of entomological interests, from the hobbyist to the professional.

Articles and notes may relate to any aspect of entomology in the Great Lakes Region, but papers of a general or non-regional nature will be considered. Because of the diverse interests of our members and subscribers, we seek to include articles dealing with a wide range of topics concerning insects and other terrestrial arthropods.

To promote clarity and to stimulate interest, avoid a pedantic style of writing. Include a brief introduction to place your topic in perspective and to indicate its significance. The title should accurately represent the content of the article, and should contain the names of the order and family concerned. The common name (if any) as well as the scientific name should be in the title of papers dealing with one or a few species. The author of each species should be cited at least once in the text, but not in the title.

Illustrations and maps are encouraged; there are no limitations on the quantity of illustrative materials.

Employ the standard format for Literature Cited. Follow the recommendations of the Style Manual for Biological Journals for citations and abbreviations of journals, and for all matters concerning form and style. [The Style Manual for Biological Journals may be obtained, at $3.00 per copy, from the American Institute of Biological Sciences, 2000 P Street, N.W., Washington, D.C. 20036.]

Manuscripts are ordinarily published in the order of acceptance, with allowance as necessary for maintenance of diversity within our space limitations. In the interests of diversity, acceptable articles occupying more than 10 printed pages can be published only if divided into two or more issues or if the necessary additional pages can be subsidized at cost. (The page cost has not been determined yet.) Subsidy of the entire cost of an accepted article will permit its publication without delay, and authors with access to funds for this purpose are encouraged to allow complete subsidy, regardless of the length of the article, in order to avoid contributing toward a large backlog of manuscripts.

All manuscripts should be neatly typed, double-spaced, and carefully checked for accuracy before submission, since our method of printing does not include a proof which can be sent to authors.

Each author and co-author will receive 25 gratis copies of the issue in which his (their) paper appears. Additional reprints, as separates, may be ordered from the printer. A reprint order form will be sent each author when his paper is accepted.

All papers, notes, and reviews should be mailed to the Editor, Julian P. Donahue Department of Entomology, Michigan State University, East Lansing, Michigan 48823. Each number of THE MICHIGAN ENTOMOLOGIST will appear at irregular intervals, depending upon the number of papers accepted for publication.

REPORT OF THE FIRST ANNUAL SPRING COLLECTING TRIP

A hardy group of members (Ron Wilkinson, John Newman, Mo Nielsen, Virgil Warczynsky, and Julian Donahue) braved snow flurries, freezing temperatures, and wet bogs last Memorial Day Weekend, to make the Society's first Spring Collecting Trip a success.

This brave band of idiots camped at the Lower Falls Campground of Tahquamenon Falls State Park (which, understandably, they had to themselves), and collected night and day in various habitats in Chippewa and Luce Counties.

The weather was most uncooperative. Snow flurries on May 28th were the grim antecedent to a cold weekend. Most of the days were cloudy (when clear skies would have been desirable), while most of the nights were clear and very cold (when cloudy skies would have been preferred).

Despite all these handicaps, the trip was a great success. The highlight of the entire weekend came when John Newman captured a worn Boloria freija--a state record. Several of the desirable Oeneis jutta were brought to bag, as were long series of Anarta cordigera, a brightly-colored day-flying noctuid that feeds on Vaccinium flowers.

The night collecting, at black lights, was much less spectacular. One night we had four lights running simultaneously in several bog locations, but had a combined capture of less than two dozen moths. Virgil showed us his newly-rigged automobile: it had two batteries mounted under the hood, so that he would always have a fresh battery should one of them run down due to prolonged use during a night of black lighting.

The first person to leave his tent in the morning (a very brave gesture to make, but often necessary) and gallop to the rest rooms got an added bonus--the opportunity to collect the moths that had been attracted to the rest room lights, which were left burning all night. The few hardy campers merely scratched their heads as we examined every crevice of the building, plucking off everything from a polyphemus moth to several species of noctuids. Often we got more off the building than we had gotten with our black lights the night before.

Since the participants in this trip were lepidopterists, that order received the most attention. Several other groups were collected for the Michigan State University entomology museum, though, notably various bees and wasps that abounded on the sand road than ran through the bog.

* *

SECOND ANNUAL SPRING COLLECTING TRIP--1966

As if we didn't learn our lesson with the First Spring Collecting Trip, we are now making plans for a second expedition of demented persons. The chances are that we will go to the Upper Peninsula again, but the Executive Secretary is accepting nominations of localities. There should be camping facilities nearby. There are still many early-flying insects that are poorly-collected, and this collecting trip provides a good opportunity to do some good collecting as well as enjoy the fellowship with other entomologists.

So reserve Memorial Day Weekend on your calendars, and plan to get some interesting records. Let's try to get some people interested in groups other than leps, to add diversity to our collecting. If you know of a young entomologist who is interested, bring him along. There's no better way to learn than to collect with a pro. Any member who would like to go but does not have transportation should contact Julian P. Donahue, and a ride will be arranged.

NEWS OF THE BRANCHES

DETROIT

The Detroit Branch met in Science Hall at Wayne State University on 4 November 1965, when two talks were presented. S.K. Gangwere spoke on "Methods of studying food selection in grasshoppers," while H.W. Rossmoore spoke on "Biological control of insects pests."

EAST LANSING

Because of various laxities on the part of the Executive Secretary, the following report has not been presented yet.

The East Lansing Branch met on March 3, 1965, at 8:00 p.m. in the Natural Science Building at Michigan State University. The meeting was called to order by Chairman Arthur Wells, and the minutes were read by the Secretary-Treasurer, M.C. Nielsen. The minutes were approved as read. Many persons, representing a wide range of entomological interests, attended the meeting.

The Chairman then introduced Dr. Roland L. Fischer, Curator of the Entomology Museum at Michigan State University, the featured speaker. Dr. Fischer presented a very interesting slide talk entitled "Around the U.S. with an insect net." He discussed the purpose of the various museum trips planned during the past decade, and recalled many interesting and humorous experiences encountered by him and his students. Discussion followed. Refreshments were served and the museum was open for inspection. [submitted by M.C. Nielsen, Secretary-Treasurer, 24 March 1965.]

This fall the East Lansing Branch held a single meeting, on 17 November, in the Natural Science Building at Michigan State University. Three people teamed up to present a comprehensive report on Isle Royale National Park: Ron Willson gave an introduction and discussed the geographical features of the Park; David Bixler spoke on habitat succession and its effects on spider fauna; and M.C. Nielsen discussed Lepidoptera and other insect records from the Park. Many people attended the meeting, many from distant towns, and a considerable amount of interest was generated. Following the refreshments a guided tour was taken through the newly-expanded and remodeled entomology museum.

* *

NEWS OF MEMBERS

WILLIAM A. KALEVA, of Wayne State University, is one of the 1,395 Woodrow Wilson Fellows elected for the year 1965-1966, announces the Woodrow Wilson National Fellowship Foundation. Our congratulations to Bill for this fine achievement.

GORDON E. GUYER, Chairman of the Department of Entomology at Michigan State University, has been presented with a Distinguished Faculty Award by Michigan State University, for his outstanding contributions to teaching and entomology. His citation reads, in part: "A vigorous advocate of interdisciplinary research . . . Students regard him as accessible, sympathetic, informed, enthusiastic."

HENRY and MARJORIE TOWNES recently departed for an extended collecting-research trip to South America. They will return to Michigan on March 17.

A KEY TO THE COLLEGE PARK SPECIES OF THE GENUS *PARADOXUS*

by

Charles M. Barr

a. Imago winged
  b. Imago with elytra obsolete
    c. Wings sometimes wanting
      d. Elytra of wingless forms red . . . . . *alba*
      dd. Elytra of wingless forms red . . . . . *niger*
    cc. Wings always wanting
      e. Wings, if any, would be blue . . . . . *rubra*
      ee. Wings, if any, would not be other than blue . . . . . *rubra* var. *rubra*

  bb. Adults brachypterous; elytra not obsolete except in most specimens
    f. Wing present, frequently wanting; if wanting, always green . . . . . *gus*
    ff. Wings not absent, at times present; if present, always invisible
      g. Posterior foremost
        h. Dorsal surface ventrally exposed . . . . . *horus*
        hh. Ventral surface dorsally exposed . . . . . *fredi*
      gg. Anterior aftermost
        i. Venter keeled, starboard femora swollen, causing slight list to port
          j. Venter not keeled, or if so, not really . . . . . *upsedaisi*
          jj. Venter keeled, port femora enlarged, causing list to starboard
            . . . . . *formunown*

aa. Imago not wingless
  k. Wings not green
    l. Wings green
      m. Elytra triangular, apical end nearest scutellum . . . . . *lordhelpus*
      mm. Elytra apical, triangular end nearest scutellum
        n. Disk of elytra smooth, impunctate . . . . . *angus*
        nn. Disk of elytra rough, glabrous . . . . . *sandi*
    ll. Wings not other than green
      o. Wings never green . . . . . *dewii*
      oo. Wings never blue . . . . . *trumanii*
      ooo. Wings never red . . . . . *stalinii*
  kk. Wings not black . . . . . *nigrus*

from "The Construction of Keys" by Z.P. Metcalf, *Systematic Zoology*, vol. 3, 1954.

NEWAYGO COUNTY PRAIRIES--A UNIQUE ECOLOGICAL AREA

by

M.C. Nielsen

For those of you entomologists who have a yen to travel to more western and drier habitats in search of interesting insects, why not investigate our Newaygo County prairies first? Believe me, they are different from anything else in the way of collecting locations found in Michigan, except for a few comparable areas in Allegan County. Perhaps the most distinguishing feature of these prairies is the presence of prickly pear cactus--and lots of it! Unfortunately, however, most of the prairie remnants are privately owned and are slowly being converted to Christmas tree plantations. So if you want to explore these prairies with a net and light trap, better do it soon!

During the past 10 years I have spent considerable time in three rather large prairies in Brooks Township collecting and studying diurnal Lepidoptera. One of the most interesting and unusual species taken in these prairies is _Hesperia ottoe_ Edwards. This handsome skipper, a challenge to any field collector, has been taken here from July 7 to August 9, and apparently uses one of the grasses here as its foodplant (_Andropogon scoparius_ under captive conditions). The adults are especially fond of visiting the large, yellow flowers of prickly pear cactus. In fact, they can be approached rather easily when buried in the stamens of the flower--otherwise they are extremely wary and usually appear as a blur on the horizon.

Hesperia ottoe can also be collected on blazing star flowers (_Liatris_), which develop after those of the cacti. This skipper, prior to its discovery by Ron Hodges in 1952, was heretofore known only from the Great Plains. Another unique insect, a recently-described tachinid fly, was found on these prairies in July 1961, when I was searching for _Hesperia_ larvae. I located a nearly full grown, parasitized larva which subsequently yielded 5 _Spathidexia reinhardi_ Arnaud (determined by C.W. Sabrosky of the U.S. National Museum)--apparently still rare in most collections.

The three prairies referred to are located in Township 12 North, Range 11 West, Sections 2 and 11; Township 12 North, Range 12 West, Sections 1, 2, and 35. Some of the other characteristic plants include _Carex pennsylvanica_, _Koeleria cristata_, _Andropogon scoparius_ and _gerardi_, _Tephrosia virginiana_, _Solidago nemoralis_, and _Liatris aspera_. It would appear that we have a small sample of the Tall Grass Prairies of the Great Plains in our midst! Undoubtedly, there are other insect species to be discovered in these prairies. So why not plan an entomological trip or two this coming season to the Newaygo County prairies. Good Luck!

* * *

1964 SEASON SUMMARY by M.C. Nielsen [The Executive Secretary regrets the long delay in the presentation of this report.]

In summarizing the 1964 collecting season I would say it was an average year--producing 86 butterfly and at least 250 moth records, which included two state and 30 county records. Collections and observations were made from Lenawee to Luce Counties from April 11 to October 25. In addition to those species previously reported in the NEWSLETTER, I wish to mention the collecting of _Callophrys (Incisalia) eryphon_ from Chippewa and Luce Counties on May 16. This western elfin was taken in company with _C. niphon clarki_--specimens of both species have since been confirmed by Harry Clench of the Carnegie Museum. Another noteworthy record was that of _Pyrgus centaureae_ on May 8 in Montcalm County--a new county record, representing the southernmost location in Michigan for this species. On September 4 in Otsego County I observed a female _Hesperia leonardus_ oviposit on a small grass clump--_Danthonia spicata_. This is the first specific record of the foodplant of this species I have found. I have since induced a female to oviposit on a potted clump of this grass and hope to rear it through to the adult stage. Also, I have an overwintering _Erynnis_ larva which was collected on wild indigo in Monroe County. I have reason to believe it represents _E. baptisiae_, which is specific to this plant.

NEW MEMBERS

Since the Membership List appeared on 1 November 1965, the following persons have joined the Society as a result of our membership drive. We still have a long way to go, though, so let's all get busy and recruit more members. In the list below, the names of Active Members are in capitals, those of student members in lower case.

ALLEN, DOUGLAS C., 2642 Whitewood, Ann Arbor, Mich. 48104. Pest control; biology & ecology; collecting. COLEOPTERA: Cerambycidae and forest insects in general.

CARLSON, ROBERT W., School of Natural Resources, University of Michigan, Ann Arbor, Mich. 48104. Behavior, biology, ecology. ICHNEUMONIDAE and other parasitic Hymenoptera; Agrilus spp.

DREW, LESLIE C., The Museum, Michigan State University, East Lansing, Mich. 48823. Behavior, biology, ecology, and taxonomy of Arachnida.

FETTEROLF, CARLOS M., Jr., Water Resources Commission, 200 Mill Street, Lansing, Mich. 48913. Aquatic insects in relation to water quality. Pollution biology.

FOLTZ, JOHN L., 18980 Woodingham, Detroit, Mich. 48221. Pest control; biology & ecology.

Hill, Harry, Department of Entomology, Michigan State University, East Lansing, Mich. 48823. Biology and ecology.

IMAI, EDWIN M., 1343 West Winona St., Chicago, Illinois 60640. Taxonomy, biology and ecology of Tephritidae (Diptera).

Itam, Robert A., Department of Entomology, Michigan State University, East Lansing, Mich. 48823. Physiology.

KOSS, RICHARD W., Department of Entomology, Michigan State University, East Lansing, Mich. 48823. Aquatic insects; behavior, biology, ecology, collecting, taxonomy, photography. EPHEMEROPTERA; ODONATA.

KREBS, CHARLES F., 2319 Pittsfield Blvd., Ann Arbor, Mich. 48104. Toxicology; pest control; biology & ecology, collecting.

LaBERGE, WALLACE E., Faunistics Division, Illinois Natural History Survey, Urbana, Illinois 61801. Behavior & taxonomy of HYMENOPTERA: Apoidea, Formicoidea.

LUTON, JOHN R., 540 Rosewood, S.E., Grand Rapids, Mich. 49506. Photography.

MANLEY, GARY, Department of Entomology, Michigan State University, East Lansing, Mich. 48823. Taxonomy, biology, ecology, collecting.

MATHEWSON, JOHN A., Agricultural Experiment Station, University of Rhode Island, Kingston, Rhode Island 02881. Aquatics; physiology; behavior; biology & ecology; apiculture; medical entomology; INSECT MORPHOLOGY (major interest); HYMENOPTERA.

MATTSON, WILLIAM J., Jr., School of Natural Resources, University of Michigan, Ann Arbor, Mich. 48104. Toxicology; pest control; physiology; behavior; biology & ecology; taxonomy.

MURRAY, RONALD L., 1028 Fuller Road, Apt. 103, Ann Arbor, Mich. 48104. Pest control; biology & ecology; photography. Forest Entomology.

MORE NEW MEMBERS (continued from page 7)

MYERS, WAYNE L., 1700 Murfin Ave., Apt. 19, Ann Arbor, Mich. 48105. Pest control; biology & ecology; LEPIDOPTERA; COLEOPTERA (Cerambycidae).

NELSON, SIGURD, Jr., 935 H Cherry Lane, East Lansing, Mich. 48823. Taxonomy, biology, ecology; INVERTEBRATE ZOOLOGY--Parasites and Commensals.

QUIMBY, JOHN W., 1223 Hill Street, Apt. 4, Ann Arbor, Mich. 48104. Aquatic insects; Forest Entomology; general interest in other aspects of entomology. COLEOPTERA, EPHEMEROPTERA.

SCHUH, TOBY, Department of Entomology, Michigan State University, East Lansing, Mich. 48823. Taxonomy of HEMIPTERA, especially Saldidae.

SLIWA, DAVID D., School of Natural Resources, University of Michigan, Ann Arbor, Mich. 48104. Pest control; biology & ecology.

SNOOK, VAUGHN, 215 Cedar, East Lansing, Michigan 48823. Biology, ecology, collecting.

STEHR, FREDERICK W., Department of Entomology, Michigan State University, East Lansing, Mich. 48823. LEPIDOPTERA, esp. Lasiocampidae. Life history, biology, ecology, taxonomy.

THOMPSON, GENE, Department of Entomology, Michigan State University, East Lansing, Mich. 48823. Biology, ecology, taxonomy of TACHINIDAE (Diptera); Photography.

TIGNER, TIMOTHY, 214 Anderson House, East Quad., University of Michigan, Ann Arbor, Mich. 48104. Behavior, biology, and ecology.

VALEK, DOUGLAS, Department of Entomology, Michigan State University, East Lansing, Mich. 48823. SCOLYTIDAE. Forest entomology and biological control.

Wells, Marcus, Jr., Department of Entomology, Michigan State University, East Lansing, Mich. 48823. Biology & ecology of _Coleomegella_ (Coleoptera: Coccinelidae).

* *

CHANGES OF ADDRESS

BAKER, BRUCE H., U.S. Forest Service, Box 1631, Juneau, Alaska 99801.

Conklin, Lois A., 2425 Christine, Wayne, Michigan 48184.

Flood, Thomas, 539 Packard Street, Ann Arbor, Michigan 48104.

LEONARD, FANNIE A. & JUSTIN W., 2006 Medford, Ann Arbor, Michigan 48104.

SCHEIBNER, RUDOLPH A., Department of Entomology, University of Kentucky, Lexington, Kentucky 40506.

DUES NOTICE--1966

Dues are now payable for the calendar year 1966. Check the schedule below to see if you owe the Society any money. Members who are more than two years in arrears in their dues will be dropped from membership.

You may pay dues in advance for any number of years. Your account will be credited accordingly.

NOTE: Only Active and Sustaining Members are entitled to receive The Michigan Entomologist. Student Members who wish to receive this journal should become Active Members.

Please enclose this notice with your payment (payable to the Michigan Entomological Society) and mail to Julian P. Donahue, Department of Entomology, Michigan State University, East Lansing, Michigan 48823. If you have already paid your dues through 1966 there is no need to return this form.

Please make any necessary changes in address on the other side.

DUES IN ARREARS ________________________ $________

DUES FOR 1966 (check class of membership desired)

☐ Student, @ $1.00 per year
☐ Active, @ $2.00 per year
☐ Sustaining, @ $25.00 or more per year

1966 Dues $________

DUES PAID IN ADVANCE, for years ________________ $________

TOTAL ENCLOSED

NOTE: You have already paid ☐ Student, ☐ Active dues for the following years: ________________________

* * *

SPECIAL NOTICE

As you may know, each member of the Society may elect to affiliate with one of the three Regional Branches of the Society. You may vote and hold office in only one Branch, but you are always welcome at any Branch Meeting. So that the Branch Chairmen may revise their mailing lists, kindly indicate below which of the three Branches you would like to affiliate with. If you desire to receive the meeting notices of more than one Branch, be sure to indicate the Branch with which you want to be officially affiliated. (Note. It appears that the Ann Arbor Branch will not be active during 1966. However, if you live in the Ann Arbor area, you may wish to affiliate with Ann Arbor, but ask to receive meeting notices of the Detroit Branch.)

I wish to affiliate with the following Branch:

☐ Ann Arbor
☐ Detroit
☐ East Lansing

MICHIGAN ENTOMOLOGICAL SOCIETY
Julian P. Donahue, Executive Secretary
Department of Entomology
Michigan State University
East Lansing, Michigan 48823

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