



Newsletter

of the

Michigan Entomological Society

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The Newsletter of the Michigan Entomological Society is published as four numbers per year.

Secret De-bait

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There are probably very few of us interested in the study of Lepidoptera who have not read W. J. Holland's finely crafted essay, "Sugaring for Moths." The field of American entomology has few volumes of fine literary accounts on which to base its legacy. Holland's "Digressions and Quotations," in *The Moth Book*, which includes the sugaring essay, is one of our classics.

His glowing tale of traipsing off into the hot summer night, racing against an approaching storm and collecting hordes of scale perfect specimens, never fails to inspire me with its infectious enthusiasm. He masterfully recounts the events of the evening. How he "baptized" trees along the old fence rows and forest edges. Of how his forty trees and ten stumps attracted hordes of state and county records for moths. He accomplished this task without the slightest degree of apparent difficulty. His quarries always dropped willingly into his jars. Never did he misplace a lid, fumble with his lantern, or land on his rump. Lately, it's beginning to sound a bit dubious.

As a young boy, I read that story many times. With my tender, unspoiled view of the unfolding joys of Lepidoptera, I took this tale as the galvanized, unvarnished truth. That was quite a few instars ago, and since that time I've grown a little wiser. I realized that I've been hood-winked, bamboozled even. Old Holland intentionally prevaricated on the side of fiction, at least by my experience. His recipe has proven to be a bum steer. I have followed it exactly, but have never come close to his "troops about the pathway," or "Here they are holding a general assembly. Look! See them fairly

swarming about the spot." My bait, mixed according to Holland, has never even produced a quorum, let alone a "general assembly." I intend to find him out.

It all started with a few rotten bananas. The inane compunction of turning legions of three foot long, garden grown zucchinis into bread also holds true for the similar conversion of any quantity of overripe bananas into banana bread. Sooner or later, the average person will reach asymptote on brown bananas, giant zucchini and eventually, breads of all stripes, unless, of course, you are addicted to moths. Not that we don't tire of green bread; we do, it's the moldering bananas that we can never really get enough of. Pure brown gold they are. We have even been known to buy them that way on purpose. Don't tell anyone.

Now, the formula for mixing up a palatable (at least to moths) batch of bait is a matter of highly personal taste. Like the disclosure of a good fishing hole, bait concoctions involve a good deal of lying. There seems to be a universally accepted practice of including some sort of secret ingredient. Individual recipes are often closely guarded secrets, and like the revered bakers of the perfect pie crust, they take their lard dripping secrets to their graves.

I learned the hard way that Holland was no exception to this unwritten rule. Nor did I find that he is alone in his wily ways of subterfuge. This phenomenon among Lepidopterists seems to be related to a certain amount of pride that goes along with a highly successful evening of baiting. It is usually accompanied by a lot of shoulder shrugging and clearly

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Current Annual Dues Schedule

Student (through High School)	\$ 5.00
Active	\$ 15.00
Institutional	\$ 35.00
Sustaining	\$ 25.00
Life	\$ 300.00

spurious looks of dumbfounded astonishment at their good luck. I have determined that it takes a great deal of practice to be this convincing. I have also learned to stay away from betting card games with these types. They can't be trusted.

After rereading his essay and talking casually to a select cadre of my trusted lepidopterist cronies, I began my journey into the secret society of the moth bait brewers. I assembled my bananas, dark jugs of molasses, assorted bottles of beer, various spirituous distillates, brown sugar, assorted melons, Holland's book and an Osterizer brand blender I had received as a wedding

gift. I was alone in the kitchen. It was January. My head was exploding with images of thousands of rarely encountered *Catocalas* flocking to my mysterious, enticing elixir. They would all be immaculate, and I would be in total control of my moth destiny.

I started the blender and I peeled the bananas. For reasons that will never survive replication or peer review, I determined, without math, that only Black Strap Molasses would do. This may eventually prove to be a false positive, but I was willing to take the risk. It had something to do with the all knowing way Brier Rabbit cast a skeptical eye on me from the label.

I have never been quite sure about the nomenclature associated with all of the buttons on my blender, but pitch seemed to have more to do with it than anything. Feeling very savoir faire, I set my venerable Osterizer on frappe. As soon as the bananas hit the fury of spinning blades, I could tell that frappe was for neophytes. I punched liquefy and poured in the rum. I should have reached for the cover, instead I uncorked the bottle with the smirking rabbit and poured the molasses into the swirling maelstrom. Next came the melons, grapes, pears and an old apple. I drank most of the beer and threw in a few perfectly ripened kiwis. They seemed to give the whole affair a rather exotic appeal. Carmen Miranda would have been proud. "This was going to be perfect," I pearly.

Even though it was only six degrees outside, I could feel the sweat pouring down my neck as I imagined the heat of August, with me plucking choice Noctuid morsels from my movable feast. By the way the kitchen looked, I think that I could have collected a few hundred nice specimens just by opening the window. The bait seemed to be just about everywhere, except in the blender.

Now, like any good vintage wine, I only had to let it properly age. My bait was full bodied, had a tender fruity bouquet of compost lightly layered over tropical breezes. The color was dark and rich, hinting of driveway mud in April. This was going to be a good year. I could hardly wait.

By February, a muffled roar, followed by a fragrance, which can only be described as "a tender fruity bouquet of compost, lightly layered over tropical breezes," began to waif up from the basement. Much to my horror, my prize batch of fermenting moth opium, had exploded all over the cellar. There was little to do but clean up and ponder the possibility of collecting great quantities of seldom encountered, aberrant dusky winged beauties, without ever leaving the comfort of my own home. It now seemed the only choice to make was where to collect, the kitchen or the basement?

After serious deliberation, I decided that I really should be collecting outside. Another batch was definitely in order. This time, I decided to consult a few close friends, old bait brewers from way back who were steeped in a rich tradition of blending rotten fruit and beer mixtures for decades. Since I have collected with these characters for years, I convinced myself that broaching the subject of secret ingredients would not be a serious breach of brew master etiquette.

The first of my friends I consulted was Mo Nielsen. His bait always works. Even in March, with the temperature hovering just above freezing, his bait traps are so loaded with

Lithophanes, that from a distance, they looked like two hogs wrestling in a burlap sack. My bait traps were usually full of snow and some very cold flies. My bait, as always, a dismal failure. He didn't hesitate, not for a second. He announced the secret to myself and the rest of the frozen north woods. "It's rendered left over Halloween candy," he said, with a sanguine fatherly tone, one eye brow arching in an expression of collusion.

What help was this? What kind of Halloween candy? I mean, it could have been anything from Milk Duds to Sweet-tarts, Atomic Fireballs to Baby Ruths. Then there is the whole unpleasantness of rendering to think about. To top it off, as a still near kid myself the very concept of left over Halloween candy was oxymoronic. He must be trying to throw me off the trail. A pattern was beginning to emerge.

Separately, while searching out *Hemileuca* larvae in the great sphagnum bogs of Michigan's Upper Peninsula, I secretly took Owen Perkins aside and coyly inquired of his secret ingredient. "Oh, that's no secret," he winced, while turning away, "I use lots of stale beer." Now I haven't been out of college that long, but I know that can't be true either.

Stale beer would have to be beer that was opened, but never drunk. Impossible. He must be withholding evidence too. "Conspiracy?" I muttered behind my net, as I dejectedly sank into the bog mat, tannin stained water pouring over the tops of my rubber boots.

My last chance for enlightenment was Bob Kriegel. So, one dark steamy night, while taking *Tortricoides* at the mercury vapor light, I broached the elusive secret ingredient. "Cloud berry jam," he meekly offered up. "I get it from the monks up in Copper Harbor. You know, at that little bakery by the waterfall." Buoyed by Kriegel's bold admission, I attempted to locate the friars, and thus obtain a sample of their sacred preserves. Deep inside my moth-eaten brain I reasoned that God was now on my side. Victory would now surely be mine, the moths simply would no longer have a choice in the matter. After learning that the abbey had no phone, and after writing several letters, I was politely informed that there must be some mistake. "We make our preserves from local berries that we harvest ourselves. Cloud berries can be found only in Scandinavia where they are revered by the local peoples, the

Lapps. Perhaps you might be interested in trying a jar of our fine thimble berry preserves? Thanks for writing." Copper Harbor Michigan, Scandinavia, friars and Lapps were all a bit too far apart for any stretch of my limited imagination. Clearly, Kriegel could not be trusted either.

As far as W. J. Holland goes, here is his recipe from the essay, four pounds of cheap sugar, one bottle of stale beer, a little rum, mix together in a bucket and apply with a clean whitewash brush. Where are the bananas? Does he really expect me to believe he didn't use bananas? We all know that bait without bananas isn't bait at all. Holland has been holding out on me now for almost a hundred years. *Heterocera* heresy!

Just between you and me, I have come up with my own secret ingredient. I can't be sure, but I think it's a winner. You take a full bag of circus peanuts, then fold in a pureed box of Mackinaw fudge. "Which one?" you ask, "there are dozens." That's easy, just look for the sign that says either, "The Original Mackinaw Fudge," or "the last fudge before you cross the bridge." Nuts are, of course, optional. The *Catocala* are not looking forward to next August, but I am. Good luck.

Successful Bait Trap Surveys

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I have over the past several years been attempting to ascertain the presence of certain Lepidoptera in Michigan by means of bait trapping. The use of such traps reduces the searching time needed for species that are readily attracted to bait of various types. The use of such bait traps enhances the likelihood of determining the presence of specific Lepidoptera and in essence is like having other assistants in the field. The traps work day and night and need only be replenished with bait every few days. Various publications provide directions for making traps and there are several commercial sources from which they may be purchased. There are advantages and disadvantages to the size, shape, color, and material as well as to where they are

placed in the field. **However, of utmost importance are the ingredients and characteristics of the bait used.**

In May of 2001, a crew representing the Michigan Lepidoptera Survey of the Michigan Entomological Society were surveying across Michigan's Upper Peninsula for bog-obligate Lepidoptera such as the Freija Fritillary (*Boloria freija*) and Red-disked Alpine (*Erebia discaidalis*). In addition, I have been involved with others in using baits made from fermenting fruit. In one case, we set out upwards of 18 bait traps at specific times. Red Admirals (*Vanessa atalanta rubria*) were EVERYWHERE, along with large numbers of our American Painted Lady (*Vanessa virginiensis*)! On one occasion, we had a 'friendly' wager as to who could estimate the TOTAL number of Red Admirals that would be trapped in 14 bait traps. The one closest to the total number would buy ice cream for ALL!

Early in the morning I had placed nine traps, Mogens C. "Mo" Nielsen set out four traps and Martin Andree set out the one trap that he described in the story

above that consisted of a large camouflaged trap with his own ingenious removable bait device. Each of us used our own individual concoction of bait. My estimate of the total number of Red Admirals that might be trapped during the day was 129, Martin estimated 92, 'Mo' guessed 175 and Terry Herig rounded his estimate at 200. We returned to the traps late in the afternoon via the same route in which they had been placed. It was with great disappointment and chagrin that Martin found not one Lepidoptera in his trap. Other traps contained as few as three Red Admirals and as many as 36 specimens of this common species, and most had some other leps present as well. Would you believe, the TOTAL count was 159 Red Admirals in 13 traps!

Using 23 traps baited with fermenting fruit during the period of 13-15 August 2001 in Michigan's Mackinac, Chippewa and Luce counties, Mo and Owen collected 159 Red Admiral, 56 Compton Tortoise Shell (*Nymphalis vaualbum-j-album*), 7 Green Comma (*Polygonia faunus*), 4 Mourning Cloak

Upcoming Changes for The Great Lakes Entomologist

At the last MES governing board meeting, the board approved three general changes in procedure for publishing our society's journal, The Great Lakes Entomologist.

The first major change is that beginning with Volume 34 (2001) the journal will publish only two issues per year instead of four. The same number of articles and pages per year will be published as in the past. Each issue will be longer, approximately 112-128 pages in length. Publishing fewer and longer issues will streamline production, facilitate the printing and binding process, allow greater flexibility in choosing printers, and will reduce printing and mailing costs.

The second major change is that new instructions for authors will be included in the journal. The instructions will specify that manuscripts including tables MUST be submitted on disk and saved as RTF (Rich Text Format) ONLY. All graphics MUST be provided as original hard copy; if also sent as digital files, they MUST meet the following criteria: 1) gray-scale images must be submitted as 300 dpi TIFF files ONLY; and 2) line art or graphs must be sent as 600 dpi TIFF files ONLY.

Any digital files not meeting these criteria will be returned to authors. If unable to meet the digital criteria, authors will be assessed a \$100 fee if additional pre-press work is necessary.

Finally, to lighten the editorial workload, duties for the journal will be divided between two positions: an Acquisitions Editor and a Managing Editor. The Acquisitions Editor will be responsible for obtaining manuscripts and reviews and the Managing Editor will be responsible for accepting manuscripts (with input from the Acquisitions Editor) and for getting issues to the type-setter and printer.

We are very pleased that Randy Cooper will be continuing in the role of Managing Editor. At this time Gwen Pearson is assisting as Acquisitions Editor. We are confident that these changes will ensure the continued high quality production of The Great Lakes Entomologist and will help to bring its production up to date and keep it on a timely schedule.

Upcoming Meetings

Michigan Mosquito Control Association 16th Annual Conference: 31 January - 1 February 2002, Crystal Mountain Resort, Thompsonville, MI. Registration information is available at: <http://www.mimosq.org>.

MES Breaking Diapause: Saturday 16 March 2002, 9 AM - Noon, Room 244 Natural Sciences Bldg., Michigan State University. Contact: Mo Neilsen, Email: neilsen4@pilot.msu.edu.

MES Annual Meeting: 7-8 June 2002, Indiana Dunes National Lakeshore, Center for Environmental Education. Theme: The influence of habitat management on populations of rare and endangered insects. Cabins available on-site. Arrive Friday evening, 7 June, with the annual meeting on 8 June. Contact: Jim Dunn, Email: dunnj@gvsu.edu.

(*Nymphalis antiopa*), as well as Question Mark (*Polygonia interrogationis*), White Admiral (*Limenitis arthemis arthemis*), Northern Pearly Eye (*Enodia anthedon*), a large number of Wood Nymph (*Cercyonis pegala nephele*), and various moths including nine species of *Catocala*, the vast majority of which were released. Compton Tortoise Shell were fresh and it appeared that they were just beginning their emergence on or about 9 August when the Baskerville-Emin degree-days (base 50°F) had accumulated to 1226 degree-days for Newberry in Luce County, and had further increased to 1307 degree-days by 15 August. The beginning of the emergence of Green comma also was occurring during this time frame. Mourning Cloak and Question Mark were also fresh and just beginning their emergence. No Hop Merchant (*Polygonia comma*), Gray Comma (*Polygonia progne*), Satyr Angleming (*Polygonia satyrus*) or Hoary Comma (*Polygonia gracilis*) were seen or attracted to the bait traps on this occasion.

Mo and Owen, using 23 traps baited with fermenting fruit during 4-7 September 2001 in Michigan's Chippewa, Luce and Mackinac Counties, produced 152 Red Admiral, 144 Mourning Cloak, 12 Compton Tortoise Shell, and 4 species of *Polygonia* (9 specimens). A large influx of Mourning Cloak, much fewer Compton Tortoise Shell, similar number of Green Comma and the presence during this period of the Hop Merchant and the Gray Comma may be compared to the above August report. In addition White Admiral, Wood Nymph, American Painted Lady (a unique capture in a fermenting fruit bait trap), as well as various moths including *Catocala*, were attracted to the bait and trapped. Most specimens on all three occasions were captured and released while some voucher specimens were obtained.

I can't speak for the bait concoction used by Martin or the ALWAYS successful conglomeration of ingredients used by Mo, which are provided in great part with kitchen leftovers by his wife "Ginny." To my knowledge, Mo's recipe is very similar to my own mixture, but I can offer some advice as to my usual mixture, which after some advice from my mentor seems to be as successful as the master's. In varying amounts, depending on what is available, I include in order of significance to my way of thinking: bananas, molasses, apples, cantaloupe, other fruit such as grapes and pears, and of course, beer! I usually insert a pinch or two of dry yeast to promote fermentation. I believe that Mo's secret ingredient is leftover Halloween, Christmas and Easter candy. I follow Holland's recipe using brown sugar. All of my ingredients are mixed in a blender to provide a consistency that can be poured on a small piece of moist sponge. The "baited" sponge is placed on a large jar lid (e.g., the lid from a peanut butter jar) and then placed on the platform inside the trap.

So now the secret is out, that is assuming there are others, besides Martin Andree, who didn't already know the secret!

Notice

Karner Blue Butterfly Draft Recovery Plan available for public comment. The deadline for public comments is 4 April 2002. The draft recovery plan can be obtained from Ms. Catherine Carnes (US Fish and Wildlife Service, 1015 Chalenger Court, Green Bay, Wisconsin 54311; phone 920-465-7415) or at <http://midwest.fws.gov/endangered>. Comments can be mailed to Ms. Janet Smith at the above address.

Constitution and By-Laws of the Michigan Entomological Society

Constitution

Article I – Name

Section 1. This organization shall be known as THE MICHIGAN ENTOMOLOGICAL SOCIETY.

Article II – PURPOSE

Section 1. Promote the science of entomology in all its branches and by all feasible means and to advance cooperation and good-fellowship among persons interested in entomology.

Article III – Membership

Section 1. Any individual or organization interested in the purpose of the society shall be eligible for membership without regard to race, creed, color, religion, sex, national origin, ancestry, disability, age, or exercising their right of free speech.

Section 2. The classes of membership shall be Active, Honorary, Student, Sustaining, Institutional, and Life.

Section 3. Active: For individuals.

Section 4. Honorary: May be conferred upon any member who has performed long and distinguished service in the field of entomology to the State of Michigan or to the Society. Proposals for Honorary Membership shall be made in writing with a supporting statement by two Active Members and shall be acted upon by the Governing Board and submitted to the society for vote by mail ballot. Nominees must receive four-fifths of the ballots cast to be elected. The total number of Honorary Members shall not exceed five at any one time and not more than two shall be elected in any one year. Honorary Members shall be exempt from payment of dues but shall have all the privileges of active membership.

Section 5. Student: An individual attending school full time through high school.

Section 6. Sustaining: Any person or organization supporting the aims of the society by submitting an annual fee set by the Board.

Section 7. Institutional: Any institution, society, school, museum, or other organization desiring to support the aims of the Society, but not to the extent of a sustaining membership.

Section 8. Life: A one-time individual fee.

Article IV – Officers

Section 1. The officers of this Society shall be President, President-Elect, Past President, Secretary, and Treasurer.

Section 2. President-Elect/President/Past President. The President-Elect shall be elected by mail ballot as specified in the By-Laws. He/she shall serve one year as the President-Elect, second year as President and third year as Past President. He/she shall assume the office of President-Elect at the close of the annual meeting next following his/her election.

Section 3. Secretary and Treasurer. The Secretary and Treasurer shall be elected by mail ballot as specified in the By-Laws and shall serve for three years. They shall assume office at the close of the annual meeting next following his/her election.

Article V – Governing Board

Section 1. The Board shall consist of the following members: President, President-Elect, Past President (one of the most recent available Past-Presidents, Secretary, Treasurer, three elected Members-at-Large, Associate & Journal Editors,

Associate & Newsletter Editors, and Webmaster.

Section 2. The Governing Board shall conduct the business of the Society, interpret, and implement Society policy.

Section 3. In the event that a regional branch has not held a branch meeting for one year, a member-at-large shall be elected to the Governing Board in the same manner as other officers. The last branch chairman shall continue to serve on the Governing Board until he/she is replaced by an elected member-at-large.

Article VI – General Guidelines

Section 1. Notwithstanding any provision of the Constitution or By-Laws which might be susceptible to a contrary construction:

- (a) the Society shall be organized and operated exclusively for scientific and educational purposes;
- (b) no earnings or use of the Society name shall be incurred to the benefit of any private individual;
- (c) no substantial part of the activities, funds, or publications of the Society shall be made to influence legislation or a public office candidate;
- (d) The Society shall not be organized or operated for profit;
- (e) the Society shall not:
 - (1) Lend any part of its income or corpus, without the receipt of adequate security and reasonable rate or interest;
 - (2) Pay any compensation, in excess of a reasonable allowance for salaries or other compensation for personal services actually rendered;
 - (3) Make any part of its services available on a preferential basis;
 - (4) Make any purchases of securities or any other property for more than adequate consideration in money or money's worth;
 - (5) Sell any securities or other property for less than adequate consideration in money or money's worth.

The prohibitions contained in this subsection do not mean to imply that the Society may make such loans, payments, sales or purchases to anyone else, unless such authority be given or implied by other provisions of the Constitution or By-Laws.

Section 2. No officer or committee of the Society or of its Branches shall solicit in the name of the Society contributions for use in obtaining or paying for specialized entertainment.

Article VII – Funds

Section 1. Society funds shall be the responsibility of the Treasurer as specified in the By-Laws.

Section 2. A permanent fund shall be established to include donations and bequests. The fund shall be in custody of the Governing Board. Funds shall be invested and may be expended only by the Governing Board. Loans may be made to other established funds of the Society for self-liquidating projects.

Article VIII – Publications

Section 1. The publications of the Society will be a journal, a Newsletter, and computer webpage.

Article IX – Standing Committees

Section 1. Standing Committees shall be identified by the Governing Board. Their duties and election are set forth in the By-Laws.

Article X – Meetings

Section 1. The annual meeting shall be at such time and place as may be decided upon by the President-Elect. Special meetings may also be called by the Governing Board.

Article XI – Branches

Section 1. Branches shall be established on the basis of convenience of local members.

Section 2. Establishment of branches must be endorsed by the Governing Board and be approved by the Society.

Section 3. Membership shall be voluntary. Branch voting is limited to Branch members.

Section 4. Officers of each Branch shall have a Chair, a Vice-Chair, a Secretary-Treasurer, and a Recording Secretary. These officers shall be elected by their respective Branches.

Section 5. Activities of each Branch shall operate autonomously subject to the Society Constitution and By-Laws.

Section 6. Financial Responsibility of Branches shall not incur financial indebtedness in the name of the parent Society without explicit prior approval of the Governing Board.

Section 7. If any Chair of a Regional Branch should be elected to the position of President-Elect, his/her position as Chair of the Branch shall be considered vacated and the Branch shall fill the office in their designated manner.

Article XII – Amendments

Section 1. All proposed amendments shall be presented at an annual meeting. The President shall at that time appoint a special committee to consider the amendment or amendments and to report its recommendations at the next annual meeting. At that time members may make changes germane to the subject and purpose of the amendment, which shall then be referred by mail ballot to the entire membership. If two-thirds of the votes cast are in the affirmative, the amendment shall be adopted.

Article XIII – Dissolution

Section 1. Upon dissolution of the Society, the Governing Board shall distribute the assets and accrued income to one or more organizations as determined by the Board but which organization or organizations shall meet the limitations prescribed in Section 1 of Article VI, immediately preceding.

By-Laws

Article I – Membership

Section 1. Privileges. All members shall have equal privileges, except as otherwise herein specified.

Section 2. Membership of persons who are accepted before July 1 shall begin with the preceding January 1; membership of those accepted at a later date shall begin in the following January 1, unless the earlier date is requested and the required dues have been paid.

Article II – Officers' Duties

Section 1. President shall have and exercise such powers as are reasonably necessary to carry out his/her official duties, including: preside at Governing Board meetings and annual business meeting; arrange with Secretary in setting date of fall Governing Board meeting and agenda; appoint special committee members and Chair, specify their charge and time to report recommendations.; with Governing Board approval, fill vacancies in the standing committees, such appointees to

serve until the next annual meeting; appoint representatives to other organizations and meetings as needed.

Section 2. President-Elect. shall serve as Annual Meeting Chair, determine site, date, and agenda and act as President if President cannot serve.

Section 3. Past President shall Chair the Nominating Committee, solicit nominees from the Board and from the membership by Newsletter notice, obtain needed information from all nominees, and notify the Secretary of those results; tabulate votes; notify all candidates of election results.

Section 4. Secretary shall record minutes of Governing Board and annual business meetings and submit them for publication in the Newsletter; prepare and send Governing Board members their meeting agenda; prepare ballot for printing; respond to routine mail requests; maintain an up-to-date membership/subscriber list, submit periodic changes to mailing firm, and submit it bi-annually for publication in the Newsletter; prepare membership meeting notices for the Newsletter.

Section 5. Treasurer shall maintain Society incomes and expenses; submit a report of Society's financial status at Annual and Governing Board meetings; file Non-profit organization form with IRS; maintain checking and other accounts; pay all bills in a timely manner; maintain backlog of all Society publications; maintain current dues status of all members and subscribers; purchase needed business supplies and equipment; prepare and mail author invoices. The Treasurer shall be bonded to assure Society liquidity.

Article III - Governing Board Duties

Section 1. Shall interpret and implement policies of the Society.

Section 2. Print the dues schedule in the Society's publications and review the dues schedule each odd numbered year to determine if a change is needed for the next year.

Section 3. Provide recommendations to the President in his appointment and charge for Special Committees.

Section 4. Fill a vacancy in the office of the President-Elect by the candidate in the most recent election who received the next highest number of votes for that office; if such candidate is not available the Board shall form a committee of its own members with the President as Chair.

Section 5. Shall, in the event the Secretary or Treasurer cannot continue duties, fill that vacancy by appointment until the next regular election.

Section 6. General responsibility for the publications of the Society shall rest with the Governing Board.

Section 7. Appoint Editors of the Journal and Newsletter associate editors for each, and a Webmaster.

Section 8. The Journal Editor's duties shall include: review and edit all manuscripts submitted for publication in The Great Lakes Entomologist; notify authors of charges; submit manuscripts to reviewers; prepare each issue of the Journal; respond to all publishing related queries; provide authors with separates and notify Treasurer of author charges; report status at Governing Board and Annual meetings.

Section 9. The Newsletter Editor's duties shall include: prepare at least 3 issues per year for printing, including Entomology Notes as available and membership list each two years; report status at the Governing Board and Annual meetings.

Section 10. Associate Editors duties shall include: assist Editors; assume duties of respective Editors in their absence.

Section 11. The Members-at-Large duties shall include: attend Governing Board and Annual meetings; participate in discussions of agenda items; serve on committees as requested by the President; assist other Board members as needed.

Section 12. The Webmaster duties shall include: creation and maintenance of the Society Webpage.

Article IV – Dues

Section 1. Dues for the Life membership class shall be at 20 times Active class, payable within one calendar year.

Section 2. Members in arrears at the end of the calendar year shall be dropped from membership.

Section 3. Sustaining shall be greater than Active and set by the Board.

Section 4. Life: a once-only fee of 20 times the current active membership dues, payable in one calendar year.

Article V – Committees: Standing and Special

Section 1. Terms of Office and Rotation. Unless otherwise indicated, members of standing committees shall serve for periods of three years each. Their elections shall be so arranged that one-third of the terms shall expire each year. Special Committees shall be limited to one year unless extended by the President.

Section 2. Election of Standing Committees. The Governing Board shall serve as the nominating committee to propose a slate of candidates for election to positions on standing committees not filled in other ways. The candidates nominated by the Board, together with any nominated from the floor, shall be voted upon at the annual meeting. The Board shall designate which member of each standing committee shall serve as chair.

Section 3. Function of Special Committees. Develop and make recommendations to the Board on specific issues, normally within one calendar year. The committee is dissolved when final recommendations are accepted.

Article VI. Voting Procedure

Section 1. Voting and holding office shall be open to all individual members.

Section 2. The President-Elect, Secretary, Treasurer, and Members-at-large shall be elected by mail ballot by the following procedure: Membership shall be solicited by notice in the Newsletter and at least six months preceding the next election for nominees to fill vacancies. At least four months prior to each annual meeting the Governing Board shall meet to consider nominations. Nominees are apprised of office responsibilities, their approval to serve obtained, and notify the Secretary of candidate names. Names shall be placed alphabetically on a ballot, mailed to each member not later than two months before the annual meeting, for return in an envelope marked "Ballot." A return date of at least thirty days after issue shall be specified for the return of the ballots. Ballots received later than the specified date shall not be counted. The votes shall be tabulated by the Past President and two other non-candidate members s/he selects. The candidate or issue receiving the most votes shall be declared approved. The Governing Board and all candidates shall be promptly notified of the outcome.

Section 3. Terms of service of the three members-at-large shall be staggered over three years.

Section 4. If only one nominee accepts candidacy for a vacancy the Board shall declare that candidate winner without a vote.

Section 5. If two candidates for any office tie for high vote the winner shall be decided by the membership through secret ballot vote at the next annual business meeting.

Article VII – Quorums

Section 1. Ten active members shall constitute a quorum for the transaction of the business of the Society.

Section 2. Four members of the Governing Board shall constitute a quorum for the transaction of the business, provided, that all members of the board have been informed of the intent to meet.

Article VIII – Amendments

Section 1. Changes in these By-Laws may be made by a two-thirds vote of any general meeting or by a two-thirds majority of all votes cast in a mail ballot; provided, that written notice of the proposed amendment shall have been sent to every active member at least one month before the date of the meeting at which it is to be considered, or the last date for the receipt of the ballots in case of mail vote.

Article IX. Parliamentary Authority

All business, unless stated otherwise in the Constitution or By-laws, shall be conducted according to Robert's Rules of Order, revised edition.

Revised: 2001

MES Historical Notes

Robert A. Haack and Therese M. Poland,
MES Newsletter Editors

1976 - 25 years ago. In early 1976, David Gosling was President, Donald Cress was President-Elect, and Mo Nielsen was Executive Secretary. The MES Members-at-Large were Roger Bland, John Witter, and Ron Priest. Later in 1976, after the June elections, Donald Cress became President and Al Bratt became President-Elect. David Evans became the new Member-at-Large, replacing Roger Bland. In 1976, David Gosling replaced Irving Cantrall as Journal Editor. Louis Wilson was the Newsletter Editor in 1976. On 18 June 1976, the 22nd MES Annual Meeting was held at Central Michigan University's Neithercut Woodland Camp near Clare, Michigan. Thirteen oral papers were presented at the meeting. The guest speaker was Michael Montgomery who presented a paper entitled "Aphid alarm pheromones." By the end of 1976 there were 444 individual members and an additional 178 institutional members.

1951 – 50 years ago. There was no MES in 1951; however, its forerunner the Detroit Entomological Society (DES) was active. At the DES January meeting there was a symposium on bogs and bog insects with discussions led by Irving Cantrall, Harry Clench, Wilbur McAlpine, Roger Richard, George Steyskal, and Ed Voss. At the March meeting, George Steyskal led a discussion on insect classification. At the April and May meetings there were discussions to change the name of the Detroit Entomological Society to the Michigan Entomological Society. MES formally began on 4 November 1954.

Does anyone have DES records for 1952-1954?

MICHIGAN ENTOMOLOGICAL SOCIETY FINANCIAL STATEMENT - 12 MONTHS ENDING DECEMBER 2000

RECEIPTS

Savings account interest	\$538.00
Dues	5,735.00
Subscriptions, THE GREAT LAKES ENTOMOLOGIST	2,905.00
Sale of separates to authors	2,068.00
Sale of back issues, journal, newsletter, entomology notes	334.00
Subsidies (page costs)	6,640.00
Donations, decals, misc. income	141.00
Annual Meeting-Registration fee	<u>2,383.00</u>
TOTAL RECEIPTS	\$20,744.00
(1999 receipts	19,933.00)

DISBURSEMENTS

Publication expenses:	
Newsletter, print, mail	\$ 3,430.00
Journal, compose, print, mail	11,365.00
Postage, mailing permit fee	264.00
Graphics, misc. printing/ mailing	538.00
Misc. supplies	615.00
Annual Meeting and "Breaking Diapause" meeting	2,938.00
Misc. (4-H foundation, copyrights, insurance, etc)	900.00
TOTAL DISBURSEMENTS	\$20,050.00
(1999 disbursements	16,218.00)

MICHIGAN ENTOMOLOGICAL SOCIETY STATEMENT OF FINANCIAL CONDITION AS OF 31 DECEMBER 2000

ASSETS

CURRENT ASSETS:	
Cash on hand	\$18,422.00
Accounts receivable	0.00
Prepayment/ postal fee	100.00

Inventories:

Postage	35.00
Supplies/ equipment	400.00
Newsletters (est.)	600.00
Journals (est.)	<u>3,750.00</u>

TOTAL CURRENT ASSETS \$23,307.00

LIABILITIES

CURRENT LIABILITIES:

Life memberships (23)	\$8,550.00
Prepaid subscriptions	2,300.00
Prepaid dues	1,200.00
Dues in arrears	1,110.00
Subscriptions in arrears	<u>600.00</u>
TOTAL CURRENT LIABILITIES	\$13,760.00
SURPLUS	\$9,547.00

MONEYS OF MES AS OF 31 DECEMBER 2000:

Petty cash	\$37.00
Checking account checks on hand	8,675.00
Savings account (CD)	<u>9,710.00</u>
TOTAL	\$18,422.00

MONEYS OF MES AS OF 31 DECEMBER 1999 \$15,503.00

MEMBERSHIP: As of 31 December 2000, the Society had 365 members in good standing compared to 354 on 31 December 1999.
SUBSCRIPTIONS: As of 31 December 2000 there were 200 paid subscriptions to THE GREAT LAKES ENTOMOLOGIST.

Mogens C. Nielsen, Treasurer, 1 May 2001

MICHIGAN ENTOMOLOGICAL SOCIETY



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