



TORONTO
ENTOMOLOGISTS'
ASSOCIATION

34 SEATON DRIVE,
AURORA, ONTARIO.
L4G 2K1

SEPTEMBER 14th 1977

FIRST MEETING - 1977-1978 SEASON

The first meeting of the new season will be held on SEPTEMBER 24 th in the PLANETARIUM LECTURE ROOM at 2 p.m., and all members are urged to attend. Some of the items on the Agenda are as follows:-

Discussion on endangered butterfly species by Paul Catling.

Discussion on the 'West Virginia White' project carried out earlier this year.

Discussion on this collecting season.

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A quantity of papered Ontario butterflies are needed for the new 'Discovery Room' at the Museum. Any number are required, and more popular species would be appreciated. Any specimens should be sent to Gord Edmund at the Museum (Department of Palaeontology) or may be brought to the meeting.

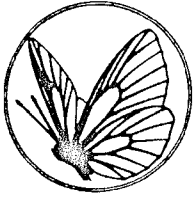
MEMBERSHIP DUES

Name: _____ Address: _____

Telephone #: _____

Dues included - Regular \$5 _____ Student \$3.50 _____

Please complete the above & send to the Treasurer - Alan J. Hanks, address above.



TORONTO
ENTOMOLOGISTS'
ASSOCIATION

34 Seaton Drive,
Aurora, Ont., L4G 2K1
July 7th. 1977

U R G E N T R E Q U E S T

In the last communication sent out to members, there was a request to all the members who had ordered drawers and/or cabinets at the April 2nd meeting to contact Gord Edmund, since the items were on the point of arrival. There has so far been no response to this request, and the drawers and cabinets are now stored at the R.O.M., with an outstanding bill of close to \$2,000 to be paid in the very near future. This places the T.E.A. in a very onerous position, since Gord went ahead with the idea that a good number of members would purchase the quantity they had decided on, and he is now left 'holding the bag'. The drawers are available at \$16.63 each, and a few cabinets at \$133, all items being of good quality manufacture in birch, with lift off glass lids (Cornell design). Among those present at the April meeting, and indicating they would require some of the items were D.Stewart, B.Ridley, J.Troubridge, K.Thorne, W.Rodriguez and R.Tasker. If any other members are interested, would they please contact Gord Edmund at 978-3666 as soon as possible.

Please do not let the Association down!



**TORONTO
ENTOMOLOGISTS'
ASSOCIATION**

1977/78 SEASON
NEWSLETTER # 1
SEPTEMBER 28TH

The first meeting of 1977/78 was held in the Planetarium Lecture Room on September 24th. In attendance were Paul Catling, Al Hanks, Doug Scovell, Quimby Hess, Gord Edmund, Al Brown, Bill Edmonds and a new member (junior), Chris Mettrick. Chris is a new amateur entomologist living in Toronto, with an interest in Pieridae, and his main collecting area to date has been at Chemung Lake, near Peterborough - welcome Chris.

1. Some discussion was held on the schedule of meetings, and most agreed that it was very confusing to have the meetings every six weeks. It was decided to try a monthly schedule again, with the meetings being held on the last Saturday of each month through to April 1978, with one exception - December, when no regular meeting is scheduled. It is expected that meetings will be held in the Planetarium Lecture Room, starting at 2 p.m. unless otherwise notified.
2. Business Session:
 - a) Financial statement indicates a negative balance at the moment due to some of the drawers not being sold, but having been paid for - this is to close the 76/77 season. Please pay dues promptly, also, anyone having received a copy of the article on Ecology, please enclose \$1 with your membership fee - total \$6.
 - b) 1977/78 executive approved:

| | |
|-----------------|--------------|
| President: | Paul Catling |
| Vice-President: | Doug Scovell |
| Secretary: | Quimby Hess |
| Treasurer: | Alan Hanks |
 - c) Editorial Committee: Alan Hanks, Sid Daniels, Quimby Hess with refereeing assistance from Dr. Dave Barr.
 - d) Summaries of Ontario Lepidoptera published by T.E.A. - additional copies to members \$3.00, and to non-members \$4.00.
3. Programme for the coming season. Some discussion took place on this subject, and a few suggestions are as follows:-
 - each member to 'show and tell' any unusual specimens, occurrences or anecdotes connected with their interests.
 - slide talk shows on collecting methods, rearing, life history work and research etc.. (volunteers needed??)
 - exhibits and trading sessions.
 - outside speakers.
4. Recent literature of interest.

'A Distinctive Dune Form of the Marbled White Butterfly (*Euchloe olympia*) in the Great Lakes Area' by Warren H. Wagner. This may be found in Vol.10 #3, Fall 1977 of the 'Great Lakes Entomologist' -

'On The Occurrence of Oarisma garita (Reakirt) in Manitoulin Dist. Ontario by Paul M. Catling. This may be found in Vol.10 #2, 1977 of the 'Great Lakes Entomologist' - both of these published by The Michigan Entomological Society, Michigan State University, East Lansing, Michigan 48824, U.S.A. (single copy \$2.75).

5. "Butterflies of North America" by Wm. H. Howe (1975 - Doubleday), J.C.E. Riotte advises that this reference book should be used keeping in mind the following reviews:
Journal Lep.Soc. Vol.30 #2, page 138 and Vol.31 #1, page 73 - both of which have numerous reservations.
6. "Annotated Checklist of Ontario Butterflies"
The committee on this project consists of Tony Holmes, Paul Catling and Bill Edmonds, and the project is still ongoing with completion hoped for in 1978. In the meantime, J.C.E. Riotte may have published his Checklist which was completed in 1976. TEA members can use the 1976 TEA Summary, which includes notes on all known Ontario butterflies. It is also of interest that TEA member Wodek Gregory has published a checklist through MacDonal College (McGill University, Ste. Anne de Bellevue, PQ HOA 1C0. It appeared in 1975 (April 30) and is \$4.00 per copy.
7. 1977 TEA Seasonal Summary of Butterflies and Moths.
 - a) All members are invited to send their lists to the Secretary, Q.F. Hess, 11 Esgore Drive, Toronto, Ont., M5M 3P9 as soon as possible and no later than December 15, 1977. The resulting Summary will be published at the earliest possible date in 1978. The data will also be used in making up the Ontario Summary which will be submitted for inclusion in The Lep. Soc. News - Spring 1978 (March/April issue). My deadline for this submission is in the Editor's hands before January 31, 1978.
 - b) In submitting your summary please follow the order found in the 1976 Summary - including population level (below average, average, above average, scarce or abundant) and any other notes such as foodplants, life history data, areas collected etc..
8. West Virginia White Study by Walter Plath Jr.
A report on the findings of this study has been submitted by Walter to the Ministry of Natural Resources and this will hopefully be made available for publication to the membership of the TEA. Paul Catling has written a letter to the General Manager, Ontario Hydro, with a copy to the Minister of Natural Resources, stating our position on the possible location of a new transmission line through a portion of the Halton County Forest.
9. Other items of interest.
 - ROM Discovery Room. Gord Edmund stated that this project was a great success and thanked all who contributed specimens to the project. More specimens are needed, in papers this time, to make it a little more difficult to identify them, and these are solicited from the members.

-CN Tower Salutes Canadian Wildlife. This upcoming event was mentioned by Darryl Stewart, who suggested that a display of insects would be very desirable. Rick Westwood stated that he had a couple of large display cases available, and would be willing to prepare a display. Credit will be given to the Donor and the TEA with the exhibit - all members should try to get down and see this.

-Ontario Naturalist. A forthcoming issue of this F.O.N. publication will be devoted to insects. If you can contribute a short article or photographs, please contact Paul Catling.

-A new book by Darryl Stewart. 'Point Pelee - Canada's Deep South' has just been published by Burns and MacEachern Ltd., (\$5.95 per copy).

-1976 Annual Summary. J.C.E. Riotte has sent a couple of letters to Paul Catling with some commendation for our publication - "It gets better and better and there is really much work, observation and valuable information inside. I do not know any other publication on the mainland or for that purpose any other club of Entomologists taking so much time and interest to get a publication of field records even started....." However, he is very dubious about the use of Howe as a basis for the arrangement of the Summary.

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Happiness is a butterfly which,
when pursued, is always just beyond your grasp,
but which, if you will sit down quietly,
may alight upon you.

Hawthorne.

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NEXT MEETING - OCTOBER 29 - PLANETARIUM LECTURE ROOM.

Let's have a good turn out - programme TBA.

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TORONTO
ENTOMOLOGISTS'
ASSOCIATION

1977/78 SEASON
NEWSLETTER # 2
NOVEMBER 7 TH

The second meeting of 1977/78 was held in the Planetarium Lecture Room on October 29th. In attendance were Paul Catling, Al Hanks, Doug Scovell, Quimby Hess, Jim Troubridge, Norm Tremblay, John Lake, Chris Mettrick, W.J.D. Eberlie and Darryl Stewart.

1. Quimby Hess reviewed the minutes of the first meeting and some discussion ensued on the make-up of the forthcoming 1977 Annual Summary. It was decided that the following sections should be included:
 - A. Summary of the weather conditions throughout the season.
 - B. Summary of collecting, with any special highlights noted.
 - C. Summary of Lepidoptera reported (format as before).
 - D. A new section on aberrations encountered in Ontario up to and including 1977.
 - E. Two new life histories studied by Walter Plath.

Would all members submitting notes please research their material and include details of aberrations that they may have encountered. All reports must be submitted not later than DECEMBER 15 - 1977 and should be sent to Quimby Hess, 11 Esgore Drive, Toronto, Ont., M5M 3P9.

2. Al Hanks reviewed the financial situation, which is a little more comfortable at the moment, and stands at a balance of \$94.73. As usual, many members have not sent in their dues, also there are some members who have not paid the \$1 for the article on Butterfly Ecology obtained earlier this year. Please send in the outstanding money if you have not already done so, as it costs time, effort and postage to keep sending letters to delinquents.
3. Paul Catling read the letter composed on behalf of the TEA and sent to the Chairman of Ontario Hydro, with a copy to the Deputy Minister, Natural Resources. This states most succinctly the TEA position with respect to the proposed new Hydro Line through a portion of the Halton County Forest, habitat of the protected Pieris virginensis (copy attached).
4. Paul Catling read the article on the TEA which will be submitted for inclusion in the forthcoming publication by the FON on insects, and there was considerable discussion on this with suggestions made for additions to his article.
5. The status of the J.C.E. Riote checklist of Ontario Lepidoptera was discussed, and it was noted that the paper is with the ROM staff for proof-reading, after which it will be published, soon we hope.

6. An illustrated talk on scarce and possibly endangered Ontario butterflies was given by Paul Catling, with some very nice slide illustrations. One of the main facts noted was that the ROM collections have very few specimens of some butterflies, which had not been thought of as scarce, particularly among the skippers.

7. The programme for forthcoming TEA meetings will be as follows:

Saturday, November 26 - meeting to be held in the private dining room, next to the main dining room on the first floor of the ROM, commencing at 2 p.m. Some members will give short talks, illustrated, on 'recent insect and nature projects'

Saturday, January 28, 1978 - Planetarium Lecture Room at 2 p.m. Professor G.Knerer of the Dept. of Zoology, U.of T. will give a talk on 'Social Bees'

Saturday, February 25, 1978 - Planetarium Lecture Room at 2 p.m. Dr. David Barr - Curator at the ROM will give a talk on 'Insects in the Urban Environment'

Saturday, March 25, 1978 - Planetarium Lecture Room at 2 p.m. Nancy Williams of Scarborough College and the ROM will give a talk on 'Caddisflies'

Saturday, April 29, 1978 - Planetarium Lecture Room at 2 p.m. Brent Bearn of Beak Consultants Ltd. will talk on 'Insects as indicators of pollution'

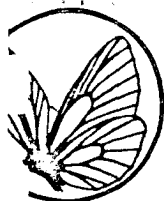
Saturday, May 27, 1978 - Possible Field Trip to be announced.

All in all, this sounds like a very interesting programme for our 77-78 season, with something to interest everyone - so let's have a good turnout at all the meetings. Of course, there will be the usual short business session preceding each lecturer, and possibly other short talks by members, time permitting.

This Newsletter should be saved, as it will serve for reference for the forthcoming meetings, with no notification being sent unless there is a change in programme. Please submit your summary notes as soon as possible, and also dues, if not paid.

N.B. Next meeting not in the Planetarium, see above list.

Q.F. HESS
Secretary.



TORONTO
ENTOMOLOGISTS'
ASSOCIATION

18 October 1977.

Mr. Robert Taylor,
Chairman, Ontario Hydro,
700 University Ave.,
Toronto, Ontario, M5G 1A6.

Dear Sir,

The Toronto Entomological Association has been instrumental in obtaining some of the data that forms the basis for your decision-making with respect to the location of the hydro line in or near to the Pieris virginiensis butterfly colony in Halton County Forest.

I have been asked by the Club to report to you our deep concern for the future of this rare insect in Ontario. We are of the opinion that it would be ecologically irresponsible to locate a hydro-corridor through any part of the colony. If one establishes as a priority the protection of rare and endangered species and the maintenance of the biological integrity of the area, there is no possible way that a hydro-corridor can be rationalized. I am expressing the unanimous opinion of our membership. We do hope that you will take whatever steps are necessary in order that the corridor be placed to the west of where it is presently planned so as to avoid the forest, and particularly the core area of Pieris virginiensis. It is difficult to evaluate a rare or endangered species, but once gone there is no amount of money that will buy it back and this makes it very valuable and worthy of the most concerted efforts. It seems highly undesirable to violate the Endangered Species Act at a time when interest in preserving our natural heritage is increasing so rapidly. Of course it is still possible to circumvent the act through application for exemption, but surely this is a violation of the act in principle.

We are most anxious to hear your comments.

Sincerely,

Paul M. Catling
President,
Toronto Entomologists' Association.

cc/ Dr. J. K. Reynolds,
Deputy Minister,
Ministry of Natural Resources,
Queen's Park, Toronto.



TORONTO
ENTOMOLOGISTS'
ASSOCIATION

1977/78 SEASON

NEWSLETTER # 3

NOVEMBER 30 TH

The third meeting of the 77/78 season was held in the private dining room of the ROM on November 26th. In attendance were Paul Catling, Al Hanks, Doug Scovell, Quimby Hess, Rick Westwood, Nick Escott, Chris Mettrick, Bud Ridley, Jim Troubridge, Tony Holmes, John Eberlie, Darryl Stewart, Sid Daniels, new member Kathy Gerry and guest Greg Daniels. This was a really good turnout considering the cold weather conditions. Ross Layberry, who was a contributor to our last Summary, has also joined the TEA and we welcome Kathy and Ross to our group, which now has 36 paid-up members.

1. Al Hanks read the minutes of the last meeting. Quimby Hess advised that he has to date received 1977 summaries from Troubridge, Escott, Layberry, Eberlie, Catling, Hess and Tremblay. Hopefully, more summaries will be received before the December 15 deadline. The following sections have so far been completed:
 - Corrections to the summary for 1976.
 - Weather during the 1977 season.
 - Notes on *Cercyonis pegala* in Ontario (based on correspondence with Professor David F. Hess of Illinois).
 - Notes on *Coenonympha* in Ontario (a letter from Dr. Harry K. Clench to Ross A. Layberry).The meeting also decided that the arrangement of the 1977 Summary would follow Howe, thereby coinciding with the 1976 Summary.
2. Dr. J. Eberlie described some interesting findings during the rearing of larvae of *Coenonympha tullia inornata* and *Papilio brevicauda*. The former appears to be in conflict with recent suppositions on the species by other authorities, and it will be interesting to see the follow-up on this.
3. Paul Catling read a letter of reply received from the Ontario Hydro re. the protection of *Pieris virginiensis*, and observed that the letter did not appear much to the point.
4. It was discussed and decided that Paul Catling would produce an Annotated List of Rare and Endangered Butterflies in Ontario. This would be sent to Tony Holmes after Christmas for finalisation and then circulated to other members for discussion before publication as a TEA Occasional Paper.
5. Doug Scovell described his collecting trip to the Donner Pass and other areas and observed the importance of the weather to trips of this nature. He showed a few specimens, including a very striking *Neophasia terlooti*.
6. Dr. Eberlie described some collecting done while on a trip to Newfoundland, and illustrated his talk with a collection of butterflies, many of which showed marked differences to their Ontario counterparts.
7. Jim Troubridge described a collecting trip to Northern Alberta near the Alaska Highway in an area about 147 miles from Dawson Creek or 500 miles north of Edmonton. Slides and specimens were used to illustrate the talk.

8. Paul Catling discussed collecting in the Gaspe, Mount Albert and Table Mountain area. His slides supplied a visual picture of these interesting collecting areas.

9. Darryl Stewart gave an illustrated talk on Point Pelee natural history, and also his collecting in Virginia.

All in all, it was a most interesting and instructive afternoon.

Member Ken Thorne of Mill Street, Delaware, Ontario NOL 1EO has written and extended an invitation to TEA members to visit him. Possibly this could be combined with the proposed field trips scheduled for Saturday, May 27th.

Hopefully, Ken would discuss his collecting, rearing and insect business projects. Thanks are extended to Ken for his invitation.

Available from Ken is a price list of livestock and papered specimens from North America and other parts of the World. For collectors of Nearctic material, he has specimens from the far north west regions of N.America.

Next meeting is on Saturday, January 28th 1978, at 2 P.M. in the Planetarium Lecture Room. Professor G.Knerer will give a talk on 'Social Bees'.

The Executive would like to take this opportunity
to wish all members

MERRY CHRISTMAS and A HAPPY NEW YEAR.

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TORONTO ENTOMOLOGISTS' ASSOCIATION

1977/78 SEASON

NEWSLETTER # 4

JANUARY 28 TH

The fourth meeting of the 77/78 season was held in the Planetarium Lecture Room on January 28th. In attendance were Paul Catling, Al Hanks, Doug Scovell, Henry Kowalyk, Chris Mettrick, Gord Edmund, Ron Tasker, Peter Hallett, Darryl Stewart, Bill Edmonds and Jim Troubridge. We also have a new member - Cyril Youll, who was unable to make it to this meeting. Cyril is a Fellow of the Royal Entomological Society of London and the Amateur Entomological Association.

1. Al Hanks read the minutes of the last meeting and there was no discussion.
2. Paul Catling indicated that the Hydro right-of-way in the Halton County Forest has been re-routed to avoid as much interference as possible with the habitat of *P.virginiensis* - a feather in the cap of the TEA.
3. Paul read two letters from Father Riotte in which he re-iterates the problem of arranging our Summaries according to Howe, which he terms un-scientific. Considerable discussion ensued, and the general feeling of those present was that the information was the important thing, as long as it followed some system available to all. However, it is a fact that most publications on N.American Rhopalocera follow the Dos Passos list, so further discussion will take place to see if it is feasible to change the present Summary, which is in preparation.
4. In 1977 the Entomological Society of Canada was awarded a contract by the Canadian Government to carry out a Pilot Study for a Biological Survey of the Insects of Canada (Bull.Ent.Soc.Can.9 - 1, March 77). As part of this, a survey was conducted and an Annotated List of Workers on Systematics and Faunistics has been produced. This is now available and Paul Catling has a copy. Also, a list of requests for co-operation (material/information) has been produced, together with a list of material requested during the summer collecting season. Anyone interested in these lists contact Al Hanks for details.
5. A review of the financial situation was given by Al Hanks and it was noted that there are insufficient funds to produce the Summary using normal techniques for printing (i.e. commercial). Doug Scovell volunteered to see if he could have them done the same way as last year, which was very economical, although we may have to wait a while for printing to be done.
6. Affiliation with the FON was discussed again and Paul gave a brief outline of the benefits (support on environmental issues etc.). Affiliation costs \$1 per member for groups such as the TEA and a vote was taken (Unanimously) to affiliate. A vote was also taken that this sum would derive from membership fees (unanimously in favour).
7. Gord Edmund gave a brief report on the Discovery Room at the ROM and said that it had been particularly successful from the point of view of the insects donated by members for use in identification problems. Gord also gave

information on the ramifications of the currently planned Museum extensions. All groups of insects will be required in the future for planned displays, and possibly some of our members could contribute to this.

8. Professor G. Knerer gave an illustrated lecture on 'Social Bees' and it was extremely interesting and informative, with a lively question period at the conclusion.

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General notices:

Some members have expressed an interest in more drawers and cabinets, and the company who produced the previous items has been contacted. Quotations are as follows; 1 cabinet with 10 drawers - \$351.00 (if 6 are ordered - \$320.00 each), Drawers are \$18.00 individually provided over 40 are ordered. We have 8 drawers on hand at the Museum, but these are probably already taken. Would those members interested please contact Al Hanks, 34 Seaton Drive, Aurora, L4G 2K1 and detail their requirements. Needless to say, after the last experience, prepayment would be needed.

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During a telephone conversation with Dr. Wiggins at the Museum, he made a few suggestions about our use of the facilities of the Entomological Department;

- a) Members who wished to use the facilities could come early - before the time the meetings start.
- b) The meetings should be started earlier, so that there would be time at the end for those interested to go up to the Department. (Say at 1 p.m.)

These suggestions should be seriously considered, since one member of the Staff is always present in the Department on our meeting dates, and this seems to be unnecessary if we are not going to use the facilities. Please contact Al Hanks if you have any strong views one way or the other, and appropriate steps will be taken.

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New member Cyril Youll is interested in obtaining surplus specimens, setting boards and store boxes, so that he can make a start on collecting N.American Lepidoptera. Please contact him if you have any of these items at 40 Fountainhead Road, Apt.713, Downsview.

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There are still a number of packets of # 2 pins available at \$1 per packet, and a few reprints of the article on 'Butterfly Ecology' are still available. These may be obtained from Al Hanks.

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TORONTO
ENTOMOLOGISTS'
ASSOCIATION

1977/78 SEASON

NEWSLETTER # 5

FEBRUARY 25 TH

The fifth meeting of the 77/78 season was held in the Planetarium Lecture Room on February 25th. In attendance were Paul Catling, Al Hanks, Doug Scovell, Jim Troubridge, John Eberlie, Kathy Gerry, Chris Mettrick, Ken Thorne, Sid Daniels, Greg Daniels, Henry Kowalyk, Darryl Stewart, Tony Holmes, Bud Ridley and new member John Prideaux, who has recently joined and lives in Newmarket.

1. Al Hanks read the minutes of the last meeting and it was noted that a letter has been received from the FON noting our application and the fact that it will be reviewed. Also a letter from Father Riotte noting that he may be visiting Toronto in July, and hopes to see some of us. Further discussion ensued on drawers and cabinets, and the matter of holding the meetings one hour earlier to allow visits to the Entomology Dept. It was unanimously decided to try this, so the next meeting (March 25th) will start at 1 p.m.
2. The 1977 Summary was briefly discussed and the typescript given to Doug Scovell for reproduction - probably about a month before it will be available.
3. Financial situation quite good at the moment - \$152.77 on hand (enough for the summary) and 37 paid-up members. The mailing list of Institutions which our Summary should be sent to was discussed and a decision made to extend it somewhat. A short Gazetteer of place names appearing in the Summaries to date is under way by Al Hanks, with townships, counties and latitude and longitude given, possibly together with some maps. A limited number will be produced, according to demand.
4. Tony Holmes gave some news on the Checklist (Ontario Lepidoptera) and said that the Hesperidae are practically complete, only requiring typing and the preparation of some maps. This will be circulated in draft form for additional input, comments etc.. before final production as an Occasional Paper. Other families will follow, with the hope that eventually the whole thing may be produced in book form.
5. The Speaker for the meeting (Dr. Dave Barr) was introduced by Paul Catling, and then gave a very interesting illustrated lecture on 'Insects in the Urban Environment'. Major points were the impact of humanity on the micro-environment, with illustrations of the different types of environment found around built up areas such as large cities. It was also noted that these environments are capable of supporting an enormous number of insect species. Also that there is a large field for contribution by societies such as the TEA for carrying out studies to obtain information in order to protect areas such as ravines etc.. from further development and destruction.
6. John Eberlie gave a short discussion on *Coenonympha tullia* with slides of specimens from various parts of Ontario, and also examples from Newfoundland and New Brunswick. He is presently carrying out rearing studies to determine the differences, if any, between spring and summer populations. Some discussion on this will be found in the new Summary. It was noted that some of the slides showed bilateral differences on certain butterflies, which may indicate that this species is in a state of genetic flux, which could cause the wide variation found in various specimens, even from the same area.

John also presented slides of *Coenonympha pamphilus* and *Coenonympha tullia scotica* from Great Britain, indicating the great similarity in the problem of determination. It is hoped that more members will carry out studies on this insect to assist in the problem of whether there are in fact two subspecies (or more) in Ontario.

7. A visit to the St. Williams area is contemplated on or around May 6th to investigate the population density of *Callophrys irus* and also to determine the reduction in the foodplant - lupine - by unrestricted tree growth. It may be necessary to look on this insect as a possible candidate for the endangered species list. Anyone interested please contact Paul Catling or Al Hanks for further details. Arrangements will hopefully be completed by the next meeting.
8. Next meeting will be held in the Planetarium Lecture Room on March 25th at 1 p.m. (NOTE REVISED MEETING TIME) and the lecturer will be Nancy Williams who will give a dissertation on Caddisflies.
9. Occasional Publication # 8-77 "Butterflies and Moths on Stamps - Part 1" by Alan J. Hanks will be available very shortly at a cost of \$4.00 plus postage.
10. Member Ken Thorne wishes to purchase quantities of some Ontario butterflies from any collector frequenting northern areas - contact him at Mill Street, Delaware, Ontario NOL 1E0 for details.

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TORONTO
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1977/78 SEASON

NEWSLETTER # 6

MARCH 25 TH

The sixth meeting of the 77/78 season was held in the Planetarium Lecture Room on March 25th. In attendance were Paul Catling, Al Hanks, Doug Scovell, Chris Mettrick, Tony Holmes, Bud Ridley, Henry Kowalyk, John Prideaux, Jim Troubridge and two visitors from Kitchener - Keith Warren and Steven Weber with two guests.

1. Since the guest speaker, Nancy Williams had a commitment to leave early, it was decided to have her presentation first. This was a very interesting talk with slide illustrations on Caddis Flies, with mention being made of various aspects of their life history and habits. It was noted that the position of various setae on the head capsule are of great assistance in identification. This fact was used to indicate the possibility of identifying fossil remains found in various layers of the Don Valley brick pits, and some illustrations showed the similarity between these remains and portions of recent insects.
2. The minutes of the last meeting were read by Al Hanks, and short discussions ensued on the Summary, Father Riottés visit to Toronto in July, the status of the first portion of Tony Holmes checklist of Hesperidae (possibly will be typed shortly) and the usefulness of the place name gazetteer.
3. The proposed visit to the St. Williams area in early May was discussed at some length as to the best weekend to pick (very much dependant on the developing weather conditions) and the type of work which might be undertaken. Doug Scovell will act as co-ordinator and any one interested in going on the trip could contact him by phone 431-1988, or write him at 7 Felicity Drive, Scarborough. Transportation will be needed for the number of people going, so if anyone does not mind driving, please indicate this to Doug. Details will hopefully be finalised at the next meeting as to numbers going, meeting place and time etc...
4. The meeting closed at approximately 3 p.m. having started at 1 p.m. as indicated in the last Newsletter, but just prior to closing, the two visitors, Keith Warren and Steven Weber decided to join our Association, and it is a pleasure to welcome them.
5. Next meeting will be held in the Planetarium Lecture Room at 1 p.m. on April 29th when the lecturer will be Brent ~~Beane~~
Beane, who will talk about insects as indicators of pollution.

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There are 6 packets of # 2 Entomological Pins and 2 reprints of the article on Butterfly Ecology still available - \$1 each...

Anyone wishing to obtain a copy of the place name gazetteer (shows name, township, county, latitude and longitude) for all previous Summaries please contact the Treasurer, Al Hanks, 34 Seaton Drive, Aurora, L4G 2K1.

TORONTO ENTOMOLOGISTS' ASSOCIATION

CONSERVATION AND COLLECTING: ARE THEY COMPATIBLE?

"After God created every beast of the field and every fowl of the air, He gathered them all in the Garden of Eden and presented them to Adam, with instructions to name them" (Genesis 2:19-20). Ever since then, man has been collecting and naming things.

Some people collect stamps or coins, some collect rocks and minerals, and some collect insects. People, especially those in the more affluent societies, just like to collect things. Why?

Collecting as such needs no justification, because for many people it is a recreational activity -- a hobby, pursued in spare time. An individual collects for his own enjoyment and edification, and that is sufficient reason to collect.

If a person has any intellectual curiosity, one of the first things he asks when he sees a new bird, plant, rock, or insect is: "What is it?" Man has asked this question for millenia, and will continue to do so as long as there are questions to be answered. As soon as he learns what it is, he begins wondering how to distinguish it from its relatives, and gradually he accumulates a reference collection of named specimens. From this stage the transition is easy to attempt to assemble representatives of a particular group of a particular area.

As the amount of available leisure time increases, more and more people are taking to the field in pursuit of insects, and some truly magnificent personal collections are being built.

But today we are also witnessing an increasing concern for the environment -- not enough concern, but nevertheless it is increasing. And we begin asking ourselves if our collecting activities are in any way damaging the population from which we are collecting.

Collecting is Random

Consider this: most collecting activities are undertaken at an opportune moment, often dictated by our vocational work schedule and other commitments, using specific collecting methods, under a specific set of environmental conditions prevailing at that moment (stage of the season, temperature, wind, etc.). All these factors are focused on a single locality for a brief span of time. And this single locality can be quite small indeed: recent studies have shown that a black light, one of the most effective and productive collecting tools for certain nocturnal insects, can, under the best of conditions, attract insects from a distance of up to 500 feet, or a maximum area of 4-1/2 acres. Add to this the fact that not all insects are equally available for collecting at any given time, and we see how truly random and opportunistic collecting really is.

But as we become familiar with particular species of insects, their flight periods, and their habitats, our collecting can become very specific indeed. A local example is collecting

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Mitchell's Satyr (Euptychia mitchellii) in Wakelee Bog, Cass County, Michigan on the Fourth of July. Over-collecting of a very localized insect such as this can very well lead to extirpation of the animal. A collector may not take the very last specimen, but once a population is reduced to a certain critically low level, it is beyond restoration. An event such as a late spring or a wet summer may finish the job.

Living organisms, unlike rocks and minerals, are a renewable resource. Many more are produced than can survive. Whether parasites, weather, or man skim off the excess makes no difference to the population as a whole. Only when a population is dangerously weakened will the effects of man's collecting be felt by the population.

The real dangers to our insect populations are reductions in the available habitat (through drainage, paving, construction, etc.) and, perhaps, the inadvertent or indiscriminate application of pesticides. Random collecting can have little effect on a healthy population.

But we now encounter a paradox. Should we collect specimens of something which is rare or becoming extinct, when we know that by collecting it we are contributing to its decline? The answer, surprisingly, is "Yes", but with strong qualifications.

In addition to having esthetic and some monetary value, as in stamps and coins, biological specimens -- be they plants, ants, or mice -- have an additional scientific value. Each individual specimen, the product of a long evolutionary history, was collected in a particular place at a particular time. Each specimen, with its associated data, is unique and irreplaceable. This imposes an extra responsibility on the collector.

Responsibility of a Collector

The three chief obligations of the collector are: (1) an awareness of and concern for, the effect of his collecting on the population; if a population is endangered he will take only what is needed, leave enough to maintain the population, and attempt to obtain specimens through rearing. (2) proper care of the specimens while they are in his possession. (3) adequate arrangements for the disposition of his collection upon his loss of interest or death.

Most collectors take sufficient pride in their specimens not to let them deteriorate as long as they are in his care. But surprisingly few collectors make satisfactory arrangements for the disposition of their collection. A widow or executor, not realizing the full scientific value of the collection or realizing the value but needing the money, may sell the collection to the highest bidder. If the successful bidder is a commercial interest, the collection may be fragmented and sold, thus destroying the extra value of the collection in its entirety. If the successful bidder is a public institution, it may not be the institution where the collection would be most useful or valuable from a scientific or practical standpoint.

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These two situations emphasize the need for making definite arrangements, as in a will, for the disposition of a collection -- in the manner and place chosen by the collector -- while he is still capable of choosing.

As more and more private collections are incorporated in public museums, even the rarest of species will eventually become fairly well represented, obviating the need for further sampling from a population that is endangered or extinct. We have seen this happen with birds, for example, where very little major collecting is undertaken in this country today, because huge collections have been accumulated from past collecting.

Collectors should go into the field realizing their responsibilities to the scientific community, while appreciating the effect they may have on the organisms they are collecting. Generally, collectors are responsible people, and will not knowingly decimate an endangered population.

In fact, many collectors assume the role of protector for an endangered population, and strive to increase the population and establish new colonies -- and even go so far as to profess total ignorance of the location of the population, to prevent collecting by others. These attitudes are entirely commendable PROVIDED that some permanent record of observations, together with specimens, is eventually made available to competent researchers.

J.P. Donahue
Los Angeles County Museum
of Natural History

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TORONTO
ENTOMOLOGISTS'
ASSOCIATION

1977/78 SEASON

NEWSLETTER # 7

APRIL 29 TH

The seventh meeting of the 77/78 season was held in the Planetarium Lecture Room on April 29th. In attendance were Al Hanks, Chris Mettrick, Gord Edmund, Quimby Hess, Doug Scovell, Jim Troubridge, Tony Holmes, Alan Brown, John Prideaux, Paul Catling, Darryl Stewart and Peter Hallett.

1. The Minutes of the last meeting were read by Al Hanks.
2. Tony Holmes reviewed his draft (# 1) of the Distribution of Ontario Butterflies (Hesperiidae). Draft # 2 (Nymphalidae) should be completed by the fall of this year and Draft # 3 (Lycaenidae) in the winter of 78/79. The first edition of the complete work, comprising Drafts 1, 2 and 3 should be ready for production as a single volume in the spring of 1979. A number of copies of the available draft will be prepared for circulation to TEA members for comment and/or more data which is not included at the moment. Any member wishing to make comments on this draft should contact Al Hanks, Paul Catling, Quimby Hess, Doug Scovell or Tony Holmes as soon as possible. All comments must be sent to Tony Holmes by September 30th, 1978 - 43 Welland Avenue, Toronto M4T 2H9 (483-4192).
3. Paul Catling mentioned the Spring 1978 issue of the 'Ontario Naturalist' which was devoted to insects, and contained an article on the TEA by Paul.
4. Storage of the TEA summary MS and typescripts was discussed. Al Hanks will contact Dr. Dave Barr on this matter.
5. TEA Occasional Paper # 9-78, 'Butterflies of Ontario and Summaries of Lepidoptera Encountered in Ontario in 1977' is printed and copies were distributed to the members present at the meeting. Other copies will be sent to the membership and selected Museums by mail.
6. For the TEA 1978 Summary, will you please read the attached special instructions very carefully and co-operate on this important endeavour as much as you can.
7. Al Hanks reported that the TEA funds are at present \$34.23, with some monies still outstanding - particularly a number of Cornell drawers still stored at the Museum. Means of improving the financial situation were discussed, either by increasing dues for the next season or trying to increase the membership - in which the FON article should help, we have already had three enquiries re membership. This matter will be discussed further at the first meeting next season.
8. The guest speaker was Brent Beam of Beak Consultants, and he gave a very interesting talk on 'Aquatic Life as an index of Environmental Quality'.
9. Al Hanks showed a recent book 'Illustrated Encyclopedia of Butterflies & Moths' by Stanek & Turner (available at bookstores for \$7.95). Quimby Hess showed some slides of 4 Ontario butterflies and briefly discussed them. An interesting article in the April 1978 'Scientific American' was noted - 'Insects of the Water Surface' by Milne. & Milne.

10. The Scheduled field trip to St. Williams to investigate *Callophrys irus* will be held on Saturday, May 13th, 1978. It is intended that the group will meet at the St. Williams Forest Nursery Headquarters in front of the Office at 10 a.m. D.S.T. This is located on the third concession north of St. Williams, about one quarter mile west. Any members from the Toronto area who wish to go please phone Al Hanks at 727-6993 (Aurora) or Doug Scovell at 431-1988 (Scarborough).

11. Nominations were held for the Executive for next season as follows:-

President - Doug Scovell.

Vice-President - Alan Brown.

Secretary/

Treasurer - Alan J Hanks.

Summary compilation - Quimby Hess and Darryl Stewart.

Editorial committee - Dr. Dave Barr, Sid Daniels and Al Hanks.

Paul Catling will book the Planetarium Lecture Room for next season.

Hope to see as many members as possible on the field trip - May 13th in St. Williams.

Good hunting for the Summer.

TORONTO ENTOMOLOGISTS' ASSOCIATION

April 18/78

TO; ALL MEMBERS AND CONTRIBUTORS
TO THE ANNUAL SUMMARY OF
LEPIDOPTERA FOR THE PROVINCE OF ONTARIO

Re: SPECIAL INSTRUCTIONS FOR THE 1978
SUMMARY FROM QUIMBY F. HESS, Co-Ordinator

- 1: Through the efforts of the contributing members and co-operators, the TEA now has published an Annual Summary for the inclusive period - 1969 to 1977. This is rapidly becoming very valuable for research purposes and much that is new is included in the 1977 Summary which will shortly arrive in your mail.
2. In order to increase the scientific value of the 1978 Summary all those who expect to contribute are asked to maintain careful records of their collecting activities and observations. We need more information including the following; month, day, time of day, kind of weather, emergence times for males and females, breeding notes, ovipositing, food plants, larvae occurrence and habits, pupation, emergence, flight times, favoured habitats, life style etc.
3. For 1978 please keep special notes on appearance of adults of Coenonympha and Cercyonis and any other lepidoptera of interest, aberrations, migrations, population levels- normal (N) below normal (BN) and above normal (AN) by areas.
4. All contributors are asked to expand their field activities into areas which are outside those usually visited if at all possible so that a clearer picture will emerge as to the status of the Ontario Lepidoptera. Areas of special importance are as follows:- Prince Edward County, Manitoulin District, North Bay - Temagami District, north of Sault Ste Marie and towards Chapleau, all of north western Ontario and all of the area north of the northern transcontinental railway which runs through Cochrane, Hearst, Nakina and Sioux Lookout.

Best wishes for a great season

Quimby F. Hess
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