



Entomological Society of Saskatchewan Inc.

NEWSLETTER

Issue 3 Vol. 45

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Editor - Bruce Neill, PFRA Tree Nursery, Indian Head,
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This is the third and final newsletter for this year, so I would like to thank all those who took the time to send me articles. I hope we can keep the newsletter going so we can all be more aware of what other members of our society are doing.

Diether Peschken made the suggestion that we could print a list of newly published papers once a year. I think this is a great idea, so I invite all members to send me their list of new references for 1984. I'll publish this list in one issue next year.

1. Fall Meeting

Peter Mason has lined up an excellent program for our fall meeting on November 1st and 2nd. Attached to this newsletter you will find a copy of the preliminary agenda. Hope to see you all there. We have plenty of "bug problems" to talk about this year (eg. wheat midge, grasshoppers, etc., etc.).

2. Binocular Microscope for Loan to Members.

Diether Peschken tells me that he has not had an overwhelming response from amateur members to our offer of a loan of a binocular microscope. If you would like to borrow the microscope, or know of someone who needs one to identify his/her insects, please contact Diether at the Agriculture Canada Research Station in Regina (585-0255).

3. Five Year Review

In preparing my financial report for the upcoming meeting, I found it interesting to review the membership and financial status of our Society for the past five years. We are now at an all-time high in both membership and assets as you can see by the figures listed below:

Year	Membership		Assets (\$)		
	Regular	Student	General Fund	Brooks Prize	Total
1979/80	35	4	2697.82	1354.13	4051.95
1980/81	40	3	3565.29	1450.28	5015.57
1981/82	37	1	3906.04	1617.50	5523.54
1982/83	40	1	3650.48	1716.94	5367.42
1983/84	53	1	6639.91	1849.34	8489.25

4. Final 1983/84 ESS Membership List

The final list of all paid-up members for 1983/84 is attached to this newsletter. Please use this list and discard the "short list" you received with the last newsletter in July.

5. Graduate Students at the University of Saskatchewan

Cedric Gillott has prepared a list of graduate students working on entomological subjects at the University of Saskatchewan. This is certainly the longest list we have had from Saskatchewan. Many of these students will be competing for the \$100 prize for the best student paper at our Fall Meeting.

Braun, Lorraine (M.Sc., C. Gillott) - Life history of *Malamoeba locustae* in the migratory grasshopper, *Melanoplus sanguinipes* (Orthoptera).

Couche, Graham (Ph.D., C. Gillott) - Structure and development of the accessory reproductive glands in the male migratory grasshopper, *Melanoplus sanguinipes* (Orthoptera).

DeClerck, Rosemarie (M.Sc., T.A. Steeves) - Effect of the pustule gall former, *Cystiphora sonchii* (Cecidomyiidae: Diptera) on the morphology and anatomy of *Sonchus* spp. (Sow-thistles).

Dosdall, Lloyd (Ph.D., D.M. Lehmkuhl) - Effects of methoxychlor, a black-fly insecticide, on non-target insects in the North Saskatchewan River.

Floate, Kevin (M.Sc. - C. Gillott) - Effects of pesticides on non-target organisms, specifically Carabidae (Coleoptera).

Govindarajan, Rethinasamy (M.Sc., C. Gillott) - Microbial control of cutworms (Noctuidae: Lepidoptera).

Hynes, Tom (M.Sc., B.R. Neal) - Effects of uranium-mine effluent on aquatic invertebrates.

Jarvis, Blair (M.Sc., D.M. Lehmkuhl) - Pre-imaginal ecology and bionomics of Simuliidae (Diptera) inhabiting the North and South Saskatchewan Rivers.

Masari, Claire (M.Sc., B.R. Neal) - Effect of deltamethrin on aquatic invertebrates in a prairie slough.

Parker, Dale (M.Sc., D.M. Lehmkuhl) - Biosystematics of pond-inhabiting Chironomidae (Diptera) in the vicinity of Saskatoon.

St. Pierre, Richard (Ph.D., T.A. Steeves) - Immature fruit loss in the Saskatoon berry, with special reference to the effects of insects.

Whiting, Eric (Ph.D., D.M. Lehmkuhl) - Biogeography of Heptageniidae (Ephemeroptera) in Saskatchewan: a multivariate ecological approach.

6. Graduate Student at the PFRA Tree Nursery

Peter Eckstein, a masters student from the University of Manitoba, has just completed the first of two years of graduate work at the Nursery. Peter is studying the life history and control of the ash plant bug (*Tropidosteptes amoenus*) in Saskatchewan. This is a new undertaking by the Nursery, whereby a graduate student is employed to work at the Nursery on a tree-related problem. Peter will be presenting a student paper at the fall meeting so you will get a chance to meet him at that time.

7. News from the Regina Research Station

Diether Peschken reports that the colony of the Canada thistle gall-fly, *Urophora cardui* (Tephritidae), established in New Brunswick since 1976, has increased its winter hardiness over the original European release stock with about 75% of the N.B. larvae surviving the Saskatchewan winter vs. 35% of the European larvae. In a renewed attempt to establish the species in Western Canada, the N.B. stock is now being used for redistribution on the Prairies.

The cecidomyiid leaf-gall fly, *Cystiphora sonchi* (Bremi) has survived three winters and summers near Outlook, Saskatchewan, and hopefully will soon increase on perennial sow-thistle.

Peter Harris reports: Dr. Sheila Forsyth has joined the Regina Research Station as a P.D.F. to work on the biological control of leafy spurge. A total of 890 spurge hawk moth larvae (*Hyles euphorbiae*) were released in the Weyburn area. This is a strain of the moth from *Euphorbia x pseudovirgata* which appears similar to most of the spurge in Saskatchewan, so hopefully it will do better than the previous stock released which was obtained from *E. cyparissias*. In addition, 50 larvae of the leaf-tying moth *Lobesia euphorbiae* were released in the same area. Colonies of the spurge flea beetles *Aphthona cyparissiae* and *A. flava* which were released last year as adults were recovered in fair numbers in 1984, so they should become established.

The book "Biological Control Programmes Against Insects and Weeds in Canada 1969-1980" has finally been published (Kelleher, J.S. & Hulme, M.A., Editors, Commonwealth Agric. Bureaux. Farnham Royal).

8. News from the PFRA Tree Nursery

The Entomology Unit of the PFRA Tree Nursery had a number of projects underway in 1984. These projects dealt with insect problems at the Nursery and insects affecting prairie shelterbelts.

The cottonwood crown borer (*Sesia tibialis*) is a persistent pest of poplar cutting beds. This year pheromone traps were used to time applications of dimethoate and chlorpyrifos for control of ovipositing females and first instar larvae. Various trap modifications were also tested for use with the synthetic sex-attractant.

The spring cankerworm (*Paleacrita vernata*) is a defoliator of Siberian elm shelterbelts throughout the prairies. This year sex-attractants were tested and modified in co-operation with Dr. Ted Underhill of NRC, Saskatoon. Trap design and trap height trials were also conducted in 1984. Mating description trials are planned for 1985.

The ash plant bug (*Tropidosteptes amoenus*) is a common pest of green ash shelterbelts, yet little is known about its life history in Canada. A graduate student from the University of Manitoba has completed the first year of a two-year study on the ash plant bug. This work is being conducted at Indian Head.

The carpenterworm (*Prionoxystus robiniae*) is a borer that attacks mature ash, elm and poplar. The flight period of this moth has been monitored with pheromone traps for eight consecutive years at Moose Jaw, Saskatchewan. Results from this trial will be used to correlate flight activity with weather records.

Dutch elm disease and elm bark beetle surveys have been conducted in Saskatchewan since 1977. To date only a single infected tree has been found, that being in Regina in 1981. No infected elms were recorded during the 1984 survey. Pheromone traps for the smaller European elm bark beetle (*Scolytus multistriatus*) have been set up at 84 locations in Saskatchewan since 1981, yet only a single specimen has been recovered, namely at the Port of Big Beaver in 1982. The native elm bark beetle (*Hylurgopinus rufipes*) was found at four new locations in 1984, bringing the total number of confirmed locations to 26. The beetle continues to be generally associated with wild American elm stands along river systems.

9. Editor's Notes

Again I would like to thank all those that made contributions to the ESS Newsletter. I would like to see more representation from other areas, however. If you would like to be a regular reporter or contributor to our Newsletter, please write to me or talk to me at the Fall Meeting. It's only with your help that we can keep our Society active.

See you in Saskatoon on November 1 and 2.

G.B. Neill, Editor
ESS Newsletter

SECOND NOTICE

32nd ANNUAL MEETING OF THE ENTOMOLOGICAL
SOCIETY OF SASKATCHEWAN

November 1 and 2, 1984

Research Station, Agriculture Canada and
University of Saskatchewan

Saskatoon, Sask.

PRELIMINARY PROGRAM

- Thursday, November 1:
- 1800 - 2000 hrs. Business Meeting,
Coffee Lounge (Room 221), Biology
Department, University of Saskatchewan.
- 2000 - 2300 hrs. Mixer. Coffee Lounge,
Biology Department, University of
Saskatchewan.
- Friday, November 2:
- Conference Room, Agriculture Canada,
107 Science Crescent, U of S.
- 0800 - 0900: Registration
- 0900 - 0920: Opening remarks: President O. Olfert
- 0920 - 1000: Invitation address: M. Chisholm, Biotechnology
Institute, Saskatoon, Sask. "The Role of Insect
Sex Pheromones in an Integrated Pest Management
System"
Introduced by: E. W. Underhill
- 1000 - 1015: COFFEE
- 1015 - 1200: Student papers. Chairman: P. G. Mason
- 1200 - 1330: LUNCH
- 1330 - 1515: Submitted Papers. Chairman: L. Burgess
- 1515 - 1530: COFFEE
- 1530 - 1700: Submitted Papers. Chairman: D. Peschken
- 1730 - 2300: Mixer and Banquet, Faculty Club, U of S Campus
Banquet Chairman: T.B.A.
Guest Speaker: M. Taft

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