



Entomological Society of Saskatchewan Inc.

VOLUME 19 NUMBER 1 ESS NEWSLETTER MAY 20, 1998

Editor: Wayne Goerzen
107 Science Place, Saskatoon, SK S7N 0X2

ESC / ESQ 1998 JOINT MEETING **Owen Olfert, ESC Regional Director**

The ESC has just released the tentative program for their joint meeting with the Entomological Society of Quebec. The theme of the meeting is "*Today's Basic Research - Tomorrow's IPM*". There are three symposia planned:

1. Applying the Basics of Chemical Ecology in IPM
2. Evolutionary Ecology - Framework for IPM
3. Insect Molecular Biology - Towards Biorational Insecticides

ESC-ESQ meeting information:

Date: October 31 - November 04, 1998
Place: Le Chateau Frontenac, Quebec City
Contact: Johanne Delisle (jdelisle@cfl.forestry.ca)

ESC / ESS 1999 JOINT MEETING - CALL FOR VOLUNTEERS **Dwayne Hegedus, Organizing Committee Chair**

The 1999 joint annual meeting of the ESS and the Entomological Society of Canada will be held in Saskatoon on September 25-29, 1999. ESS members will be well aware that the success of such meetings is largely dependent upon the participation of volunteers. Active members of the society who have an interest in showcasing the city and in stimulating public interest in entomology are asked to contact the chair of the organizing committee (Dwayne Hegedus).

The overall committee structure is detailed below but additional volunteers will be required.

Regional Director: O. Olfert
 General President: L. Braun
 General Chair: D. Hegedus
 Treasurer: L. Braun

Science Program Chair: B. Elliott and C. Gillott (co-chairs)
 Local Arrangements Chair: W. Goerzen and K. Moore (co-chairs)

Subcommittees:

Meeting Accommodation: W. Goerzen and K. Moore
 Associates Program: L. Grenkow and M. Braun
 Audio-Visual Aids: D. Baldwin and B. Galka
 Banquet/Receptions: W. Goerzen, K. Moore, and O. Olfert
 Conference Photographs: S. Hartley
 Finance Soliciting: L. Harris, D. Hegedus, and G. Khachatourians
 Registration: J. Soroka and L. Braun
 Printing: D. Hegedus and R. Hallett
 Publicity: D. Hegedus
 Tours: M. Erlandson and M. Braun

We have yet to decide upon a theme for the meeting and are soliciting suggestions from the membership. It was suggested that we have a theme relating to close of the millennium and providing a glimpse into the future prospects for pest control based on lessons from the past, (i.e. Managing the new Millennium Bug: Lessons from the Past).

Proposed Symposia

1. Pest Forecasting: O. Olfert
2. Industry Perspectives: G. Khachatourians
3. Bio-rational Pest Control: ?

Proposed Workshops

1. *Lygus*: B. Footit

Dwayne D. Hegedus, Organizing Committee Chair
 Agriculture and Agri-Food Canada
 107 Science Place
 Saskatoon, SK S7N 0X2
 tel: (306) 956-7667
 fax: (306) 956-7247

NEWS FROM AAFC / SASKATOON RESEARCH CENTRE
Lorraine Braun

Our busy field season is underway already thanks to the early spring. Thankfully, our summer assistants are here to help with the additional workload. Here are some of the things our scientists and research associates will be tackling this summer:

- Owen Olfert - will continue insect monitoring to produce the valuable annual Insect Forecast Maps, which are predictive surveys for bertha armyworm, crucifer root maggot, grasshopper and wheat midge. New insects included in this year's monitoring are *Lygus* bug species in Alberta and Saskatchewan, and diamondback moth (DBM). Our DBM populations fly in each year on high level winds from southern locations, and the diamondback moth project takes advantage of a wind trajectory model produced by Environment Canada, in which up-to-date trajectories are obtained from DBM population source locations in the southern USA and Mexico. There is the opportunity to look at back trajectories as well (i.e. to see if the winds came as far as Regina or Saskatoon). The wind trajectory model can be accessed at: <http://ecsask80.inovplace.saskatoon.sk.ca/db/diamondback.html>
 Insect forecast maps are available at:
<http://agres:1080/sask/mainpage.html>
- Bob Elliott - begins another busy spring with research on canola seedling vigour and vigour testing under field conditions. He will continue to evaluate canola varieties and novel germplasm in the search for potential resistance to flea beetles and root maggot.
- Julie Soroka - will be conducting research on root maggot life cycles and population dynamics, investigating effects of insecticidal compounds on flea beetles, examining flea beetle feeding on various host plants, and revisiting silvertop formation in grasses. She has also established data collection protocols for root maggot and *Lygus* bugs.
- Martin Erlandson - will complete additional field testing of baculovirus against bertha armyworm and continue to study *in vitro* replication of bertha armyworm-specific baculovirus.
- Lorraine Braun - will investigate anti-host factors produced by parasitoids in bertha armyworm, look for pathogens and parasitoids in *Lygus* spp., examine aspects of peritrophic formation *in vitro*, and continue research on midgut physiology of bertha armyworm and diamondback moth.
- Dwayne Hegedus - is the one of the newer additions to the research center. His research program will focus upon transgenic means to control canola insect pests using protein-based anti-feedants and insecticides. He also has an interest in insect molecular systematics and identification and its application to pest forecasting.
- Margie Gruber - has several projects underway to develop insect resistant canola using plant-based deterrents and attractants. These strategies will be used to provide protection from flea beetles, root maggot, diamondback moth, and bertha armyworm.

COAST-TO COAST MOTH AND BUTTERFLY SURVEY**Brian Galka**

Purpose: To keep track of moth and butterfly populations in order to investigate habitat loss and ecosystem health, to learn more about which plants are most attractive to which moths and butterflies, and to assess the merits of butterfly gardening.

Activity: Participants keep watch in their backyards, schoolyards, parks, or by porch light at night and report sightings of white admiral, red admiral, painted lady, mourning cloak, monarch, tiger swallowtail, black swallowtail, luna moth, and polyphemus moth.

Materials: Informative guide, including identification tips, detailed illustrations of moths and butterflies, and reporting form.

Cost: Free.

Location: Across Canada.

Time: As much as participants wish to spend keeping watch outdoors and reporting sightings as they occur.

Period: Spring and summer.

Skill: Beginners to experienced entomologists; guide shows participants how to identify moths and butterflies by sight.

Contact: Canadian Wildlife Federation
2740 Queensview Drive
Ottawa, ONTARIO K2B 1A2
tel: 1(800) 565-6305
fax: (613) 721-2902
website: <http://www.cwf-fcf.org>

(Editor's note: this article was extracted from the May / June 1998 issue of the Regina Natural History Society Newsletter).

MINUTES OF THE E.S.S. 1998 SPRING MEETING

AGRICULTURE CANADA RESEARCH STATION, SASKATOON

14:00, April 08, 1998

PRESENT: Alf Arthur, Doug Baldwin, Lorrain Braun, Bob Elliott, Martin Erlandson, Brian Galka, Wayne Goerzen, Larry Grenkow (Secretary), Rebecca Hallett, Scott Hartley (President), Alex Mateus, Keith Moore, Owen Olfert, Maurice Taylor, Juliana Soroka.

1. **Call to order** at 14:00 by President Scott Hartley.

2. **Introductions** were made, new members were welcomed.

3. **MOTION:** Olfert/Braun. THAT the agenda as presented be approved.

CARRIED.

4. **MOTION:** Moore/Soroka. THAT the minutes of the Fall Meeting, November 13, 1997, be accepted as circulated.

CARRIED.

5. **Business arising from the minutes.**

5.1 ESS-ESC 1999 Joint Meeting - D. Hegedus

Dwayne presented the following planning and organization chart for the ESS-ESC Joint Meeting.

Regional Director: O. Olfert

General President: L. Braun

General Chair: D. Hegedus

Treasurer: L. Braun

Science Program Chairman/Committee: B. Elliott and C. Gillott (co-chairs)

Local Arrangements Chairman: W. Goerzen, K. Moore

Subcommittees:

1) Meeting Accommodation: W. Goerzen and K. Moore

2) Associates Program: L. Grenkow and M. Braun

3) Audio-Visual Aids: D. Baldwin and B. Galka

4) Banquet/Receptions: W. Goerzen, K. Moore and O. Olfert

5) Conference Photographs: S. Hartley

6) Finance Soliciting: L. Harris, D. Hegedus and G. Khachatourians

7) Registration: J. Soroka and L. Braun

8) Printing: D. Hegedus and R. Hallett

9) Publicity: D. Hegedus

10) Tours: M. Erlandson and M. Braun

Proposed Theme: Managing the Millennium Bug.....

Proposed Symposia:

- 1) Pest Forecasting: O. Olfert
- 2) Industry Perspectives: G. Khachatourians
- 3) Bio-rational Pest Control: ?

Proposed Workshops:

- 1) Lygus: B. Footit
- 2) ?

Keith and Wayne tentatively reserved the Radisson Hotel for Sept. 25-29/99 for the meeting. Room charges of \$85 per night include free parking.

MOTION: Hegedus/Soroka. THAT the ESS approve Keith & Wayne's arrangement with the Radisson Hotel.

CARRIED.

5.2 Oilseed Pests Video Expenses - L. Harris

No report.

6. Treasurer's Report - J. Soroka

See Appendix A.

MOTION: Soroka/Goerzen. THAT the report be accepted as presented.

CARRIED.

7. Secretary's Report - L. Grenkow

The names of the new committee chairs and officers, as confirmed at the Fall/97 Annual Meeting, have not yet been forwarded to the secretary of the ESS, but will be mailed shortly. Information from Canadian Government Publishing on the *Canadian Forces Pest Management Manual on CD-ROM* was presented and circulated around the room.

MOTION: Moore/Grenkow. THAT the secretary's report be accepted.

CARRIED.

8. Newsletter Report - W. Goerzen

Articles are being solicited for the next newsletter, to be published in late April or early May.

MOTION: Goerzen/Soroka. THAT the newsletter report be accepted.

CARRIED.

9. Regional Director's Report. - O. Olfert

Owen forwarded to the ESC the names of persons in charge of organizing the

ESS-ESS Joint Meeting.

MOTION: Olfert/Moore. THAT the report be accepted as read.

CARRIED.

10. Committee Reports.

10.1 Youth and Amateur Encouragement - B. Galka submitted the following report:

The Chairman of the Youth and Amateur Encouragement Committee reports that since 07 November, 1997, the Entomological Society of Saskatchewan (ESS) participated once again in the 'Little Green Thumbs SchoolTour Program' at GardenScape. Your services, as well as those from Agriculture and Agri-Food Canada who are not members of the ESS, were successful in presenting a brief overview of entomology to over 1000 grade two children during March 26 and 27, 1998. Thanks to Scott Hartley, Barb Youngs, Keith Moore, Jennifer Prins, Bryan Sarauer, Murray Braun, Vaughn Leuschen, Dan Hupka, and Larry Mann for volunteering their time and services to make this a successful event. The Society has already been informally invited to participate in next year's program.

In the upcoming months I hope to resume bringing entomology back into the classroom as our Society has so successfully done in the past. I have recently had one request for a school visit which I hope to complete in April, and I know of one or two more classes which may be interested in an entomological seminar. I'm pleased to say that there seems to be a high level of interest in entomology amongst the youth in and near Saskatoon, and I look forward to reaching an even wider audience in the coming months.

Respectfully submitted,

Brian E. Galka, M.Sc.
Chair, Amateur and Youth Encouragement Committee

MOTION: Galka/Hallett. THAT the report be accepted as read.

CARRIED.

10.2 Proceedings and Archives - K. Roney

No report.

10.3 Honors and Awards - C. Gillott

No report.

10.4 A.R. Brooks Award - C. Gillott, B. Chapco, G. Khachatourians

No report.

General discussion around the table was that in the past year no one has been nominated for the awards, and no one has applied for the ESC Travel Scholarship. Since Cedric Gillott wishes to withdraw from the chairmanship, Wayne will suggest to Cedric to nominate Art Davis to chair the Honors and Awards Committee and the A.R.

Brooks Award Committee. The secretary should send a memo to the Biology Dept. regarding the advertising of the awards.

10.5 Microscope - J. Koziak.
No report.

10.6 Slide Library - D. Peshchken
No report.

10.7 ESS Membership - J. Tranberg, L. Jeffs, C. Franke
No report.

11. New Business.

11.1 Fall Meeting - S. Hartley

MOTION: Olfert/Hallett. THAT the executive organize a field trip for the fall meeting, in early September.

CARRIED.

12. Adjournment.

MOTION: Olfert/Baldwin. THAT the meeting be adjourned.

CARRIED.

APPENDIX A

Entomological Society of Saskatchewan

Financial Statement

April 7, 1998

Assets - Saskatoon

Bank Balances:

Video Account	\$	398.36
ESS Account		474.98

Term Deposits

ESS - three term deposits	\$	19,210.63
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Debits

ESS

Outstanding cheques		
Elliott and Associates	\$	267.50

Outstanding claims		
Meeting Notice Postage	\$	39.55

Video		Unitemized
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ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

August 31, 1997

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ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

AUDITOR'S REPORT

To the Members of:
Entomological Society of Saskatchewan

We have audited the balance sheet of Entomological Society of Saskatchewan as at August 31, 1997 and the statements of receipts, expenditures and members' equity for the year then ended. These financial statements are the responsibility of the Society's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with generally accepted auditing standards. Those standards require that we plan and perform an audit to obtain reasonable assurance whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation.

In our opinion, these financial statements present fairly, in all material respects, the financial position of the company as at Sunday, August 31, 1997 and the results of its operations and the changes in its financial position for the year then ended in accordance with generally accepted accounting principles.

Saskatoon, Sask.
April 6, 1998

Elliott & Associates
ACCOUNTANTS AND CONSULTANTS

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

BALANCE SHEET (Audited) AS AT AUGUST 31, 1997

	1997	1996
ASSETS		
CURRENT		
Banks	\$ 6,173	\$ 16,830
Accounts receivable	80	-
Term deposits	13,211	23,000
Slide library membership	15	-
TOTAL ASSETS	\$ 19,479	\$ 39,830
LIABILITIES		
CURRENT		
Outstanding cheques	\$ 7,922	\$ -
Accounts payable	6,425	-
TOTAL LIABILITIES	14,347	-
MEMBERS' EQUITY		
MEMBERS' EQUITY	5,132	39,830
TOTAL LIABILITIES & EQUITY	\$ 19,479	\$ 39,830

APPROVED ON BEHALF OF THE BOARD:

_____ Director

See Accompanying Notes
Subject to Auditors' Report Dated April 6, 1998

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

STATEMENT OF RECEIPTS, EXPENDITURES, AND MEMBERS' EQUITY (Audited) FOR THE YEAR ENDED AUGUST 31, 1997

	1997	1996
General Receipts		
Memberships	\$ 550	\$ 535
Annual meeting	-	313
ESC amateur encouragement	200	200
DevCon display	-	100
Interest	364	652
Refund income	-	50
	1,114	1,850
Other receipts		
ESS Canola Video Project on page 4	(26,638)	18,112
ESS Slide Library on page 5	6,141	1,139
	(20,497)	19,251
Total receipts	(19,383)	21,101
General Expenditures		
Administration charges	81	29
Amateur encouragement	401	-
Donations	500	-
Dues & fees	10	30
Insect displays	234	300
Interest & bank charges	8	9
Meetings	40	358
Memorials	-	100
Office supplies	298	171
Professional fees	284	-
Retirement	-	50
Scholarships	500	500
Total general expenditures	2,356	1,547
Excess of Expenditures over receipts	(21,739)	19,554
Members' equity, beginning of year	39,830	20,276
Equity adjustment	12,959	-
Members' equity, end of year	\$ 5,132	\$ 39,830

See Accompanying Notes
Subject to Auditors' Report Dated April 6, 1998

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

STATEMENT OF ESS CANOLA VIDEO PROJECT RECEIPTS AND EXPENDITURES (Audited) FOR THE YEAR ENDED AUGUST 31, 1997

	1997	1996
Receipts		
Grants	\$ 45,716	\$ 31,969
Donations	-	14,550
Interest	144	197
	<u>45,860</u>	<u>46,716</u>
Expenditures		
Bank charges	32	6
Courier charges	-	107
Equipment	-	1,150
Film costs	72,316	27,255
Rental	150	-
Travel	-	86
	<u>72,498</u>	<u>28,604</u>
Net (loss) income ESS Canola Video Project	(26,638)	18,112

See Accompanying Notes
Subject to Auditors' Report Dated April 6, 1998

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

STATEMENT OF ESS SLIDE LIBRARY RECEIPTS AND EXPENDITURES
(Audited)
FOR THE YEAR ENDED AUGUST 31, 1997

	1997	1996
Receipts		
Sales	\$ 5,149	\$ 1,368
AGRIAM grant	2,000	-
	<hr/> 7,149	<hr/> 1,368
Expenditures		
Bank Charges	16	3
Films & slide duplication	659	223
Labels	326	-
Miscellaneous	7	-
Slide holders	-	3
	<hr/> 1,008	<hr/> 229
Net income ESS Slide Library	<hr/> 6,141	<hr/> 1,139

See Accompanying Notes
Subject to Auditors' Report Dated April 6, 1998

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

NOTES TO THE FINANCIAL STATEMENTS (Audited) AUGUST 31, 1997

1. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The accounting policies are in accordance with generally accepted accounting principles for Non-Profit organizations and charities.

Fixed assets

The Society expenses fixed assets as they are acquired and these are not shown on the balance sheet.
