



Entomological Society of Saskatchewan Inc.

VOLUME 18 ISSUE 2 ESS NEWSLETTER OCTOBER 24, 1997

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

ESS 1997 ANNUAL FALL MEETING ANNOUNCEMENT
Wayne Goerzen

The 1997 Annual Fall Meeting of the Entomological Society of Saskatchewan will be held beginning at 1:00 pm. on Thursday, November 13th in the main conference room of the Agriculture & Agri-Food Canada / Saskatoon Research Centre. The scientific program will begin with a keynote address by Kevin Floate (AAFC / Lethbridge) on fluctuating asymmetry as a bioindicator of environmental quality.

Other scientific presentations will include the following ...

- a) L. Braun: "New research on specificity determinants of the microbial insecticide *Bacillus thuringiensis*."
- b) D. Peschken: "How weather and habitat affect the Canada thistle stem gall fly."
- c) E. Valeria and G. Khachatourians: "Use of IPM models and fungal insect pathogens in sustainable agro-ecosystems."
- d) M. Erlandson, J. Balone, S. Hartley, and M. Braun will also give presentations at the meeting (titles to be announced).

The scientific program will be followed by the ESS fall business meeting and a banquet (venue to be announced). The after dinner speaker will be Owen Olfert, discussing entomological aspects of his time spent in Australia.

ESA-ESC 1997 JOINT MEETING REPORT

Lorraine Braun

The joint meeting of the Entomological Society of Canada / Entomological Society of Alberta was held at the Crowne Plaza/ Chateau Lacombe Hotel in Edmonton, Alberta on October 4th-8th, 1997. Conference participants had the opportunity to attend four workshops, four symposia, and eight contributed paper sessions; in addition, there were four President's Prize sessions and a poster session. Dr. Peter Harris, an Emeritus Scientist at AAFC / Lethbridge (and a past President and long-standing member of ESS) was the recipient of the Gold Medal for achievement in entomology. Through Peter's efforts the Weed Biological Control Program in Canada is recognised as one of the world's most successful biological control programs.

The conference was entitled "Insects and Mother Earth" and covered diverse topics including biodiversity, pollinators, ecosystem productivity, and fluctuating asymmetry. Although there was a strong emphasis on forest entomology, agricultural entomology was well covered with sessions addressing biological control, pest management, host plant resistance, and *Lygus* bug management. The conference was topped off by an excellent banquet meal, followed by a very entertaining presentation by after dinner speaker John Acorn, host and creator of the television show "The Nature Nut". Congratulations go to the local organizing committee in Edmonton for a job well done!

NEWS FROM THE ENTOMOLOGICAL SOCIETY OF CANADA

Keith Moore, Regional Director

Approximately 250 people attended the Joint meeting of the Entomological Society of Canada and the Entomological Society of Alberta in Edmonton October 4th-8th, 1997. Next year's meeting will be held at the Chateau Frontenac in Quebec City, October 31st-November 4th, 1998. The recipient of the C. Gordon Hewitt award was Jacques Brodeur.

The new executive of the ESC comprises the following members ...

President - Hugh Danks

Vice President - Linda Gilkeson

2nd Vice President - Dan Johnson

Past President - Steve Marshall

Secretary - Peggy Dixon / Treasurer - Gary Gibson

It was confirmed that the 1999 ESC annual meeting will be held in Saskatoon. Planning is underway for ESS to host this joint ESS/ESC meeting. All members are urged to participate in the work which will be required to successfully host this major event.

NEWS FROM THE UNIVERSITY OF REGINA / BIOLOGY DEPT.**William Chapco**

Research on the evolutionary genetics of orthopteroid insects is ongoing. Wanda Kuperus is writing up her doctoral thesis and should finish in a few months. Gregory Litzenberger has started his master's program on analyzing genetic variation in populations of *Melanoplus sanguinipes*.

A publication entitled "Molecular Phylogeny of North American Band-Winged Grasshoppers (Orthoptera: Acrididae)", authored by W. Chapco, R.K.B. Martel and W.R. Kuperus, should be appearing this year in the **Annals of the Entomological Society of America**. A chapter entitled "Molecular Evolutionary Genetics in Orthopteroid Insects" written by W. Chapco appeared this year in the book "The Bionomics of Grasshoppers, Katydid and Their Kin" edited by S. K. Gangwere, M. C. Muralirangan and M. Muralirangan (publisher - CAB International).

CANOLA INSECT PEST VIDEO SERIES**Lloyd Harris**

The first of a series of four video tapes on insect pests of canola is now available for sale. This first video discusses the bertha armyworm and the red turnip beetle. The second video will be available by the end of October, while subsequent videos are scheduled for release in December, 1997 and March, 1998.

The series has been produced by provincial entomologist Lloyd Harris and nature cinematographer Robert Long, under the auspices of the Entomological Society of Saskatchewan. Support for production of the video tape series has come from several provincial agriculture departments and various industry participants.

MINUTES OF THE E.S.S. 1997 SPRING MEETING
AGRICULTURE CANADA RESEARCH STATION, SASKATOON

15:00, April 22, 1997

PRESENT: Alf Arthur, Doug Baldwin, Coreen Franke, Brian Galka, Larry Grenkow (Secretary), Lloyd Jeffs, George Khachatourians (Chairman), Peter Mason, Keith Moore, Scott Hartley, Rebecca Hallett, Peter Kusters, Nancy Melnychuk, Deiter Peshchken, Keith Roney, Juliana Soroka.

1. **Call to order** at 15:00 by President George Khachatourians.

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

3. **MOTION:** Mason/Soroka. THAT the agenda as amended be approved.
CARRIED.

4. **MOTION:** Keith/Mason. THAT the minutes of the Fall Meeting, November 28, 1996, be accepted as circulated.
CARRIED.

5. Business arising from the minutes.

5.1 Common names - L. Grenkow

ESS purchased the ESC common names disc. The disc has been copied to 3 PC's at AAFC Research Station, and has been forwarded to George Khachatourians.

5.2 ESS-ESC 1999 joint meeting - George Khachatourians

On April 08, an invitation to co-host the 1999 joint meeting was mailed to the president of the ESC. George will approach Bob Elliott and Cedric Gillott regarding co-chairing the scientific committee. Loyd Harris will be asked by George to co-chair with him on the fund raising committee. Wayne Goerzen volunteered to help with local arrangements.

5.3 Oilseed pests video - Loyd Harris submitted the following report.

The video project, Integrated Insect Pest Management of Canola, has been proceeding reasonably well. Six of the seven "chapters" have been transferred to video, with the voice and music to be added before the end of April. The seventh "chapter" requires some additional footage before it can be completed. The additional footage we require will be collected this summer. We anticipate the project will be completed by December 31, 1997.

Completion of the project may cost an additional \$20,000.00 - \$30,000.00. Funds to complete the project will be obtained by acquiring additional sponsors and marketing the videos to industry this summer. We are currently designing packaging

material that would allow us to sell the completed videos, with the last video tape in the set being delivered upon its completion.

To date our expenditures total \$ 68,690.23. An additional \$6-8,000.00 will be spent by the time all the current bills have been received.

L. Harris

- The secretary will formally acknowledge Loyd's success in a letter to him indicating the ESS is pleased with his progress on the project and wish him well as he works towards its completion.

5.4 SBDBC Database - Nancy Melnychuk submitted the following report:

Saskatchewan Conservation Data Centre Discussion Group April 7 1997.

The ESS was invited to participate in a discussion group as part of the Saskatchewan Conservation Data Centre (SKCDC)/Natural Heritage program - A Design for the Future project. The other groups participating in the discussion included: SaskTel, SaskPower & Trans Gas, Canadian Soil Survey, Environment Canada, Saskatchewan Watchable Wildlife, Project Wild, Saskatchewan Environment Department, and Saskatchewan Agriculture-Lands Branch. The goal of this project is to carry out a comprehensive market assessment and to develop strategies to ensure the long-term viability of the Centre.

Background

The Saskatchewan Conservation Data Centre was established in 1991 through an agreement with the Nature Conservancy USA, Nature Conservancy Canada, and the Saskatchewan Government. Similar data centres have been established in British Columbia, Ontario, Quebec, United States and 12 Latin American countries. The mission of the Saskatchewan Conservation Data Centre is to serve the Saskatchewan public by gathering, interpreting and distributing standardized information on the ecological status of provincial wild species and communities. Currently the centre employs 4 staff members; a coordinator, an information manager, an ecologist and a botanist.

Focus Group Discussion

The discussion focused on three areas: (1) data utilization - how and why SKCDC data is utilized, (2) customer satisfaction, and (3) future directions the centre should take. The data supplied from the SKCDC is mainly utilized by environmental consultants to identify critical habitats during the planning stages of construction. The biggest problem noted by individuals who have utilized the SKCDC data banks is the paucity of information available. Currently data is restricted to flora records and information on threatened and endangered species. It was also noted that material is not presented in a consistent manner between centres. It was the consensus of the group that the SKCDC need to look at filling the gaps in their database. It was recognized that this was next to impossible given their limited budget and staff.

However, participants suggested they may be able to fill some of the holes indirectly by: 1) acting as a clearinghouse for biodiversity information (If they do not possess specific data they could get it from other government or private agencies that have the information) and 2) acting as information managers for government agencies that may have biodiversity information but do not have the personnel for proper cataloguing.

ESS involvement with the SKCDC

Currently the SKCDC does not have any information regarding insect populations in the province. They expressed an interest in placing information from existing insect collections in their database. Any individuals who have collections and are willing to work with the SKCDC should contact the centre's coordinator Marlon Killaby.

Saskatchewan Conservation Data Centre
3211 Albert St. Regina, Sask.
S4S 5W6
Ph:787-5021
Fax:787-1349
Email:mkillaby@unibase.unibase.com

5.5 Insects of the Yukon - Julie Soroka

Julie wrote to Hugh Danks, chairman of the Biological Survey Foundation, expressing reservations regarding the wisdom and practicality of publishing the Insects of the Yukon, which the ESS needed to be addressed before being able to make a financial contribution to assist with the publication. Hugh Danks' reply laid our concerns to rest.

MOTION: Soroka/Franke. THAT the ESS send the Biological Survey Foundation \$500 to assist with the publication of the Insects of the Yukon.

CARRIED.

5.6 AFIF Fund Grant

Loyd submitted a proposal and budget of \$330,000 to Agri-Food Innovation fund (AFIF). It wasn't selected by the grant committee to proceed. Rebecca thought perhaps ESS could try instead to apply for funding from one of the groups that won funding from AFIF. Julie will approach Loyd to investigate the possibility. George suggested that Loyd also find out how our proposal fell short, and perhaps apply for AFIF's reserve funds.

6. Treasurer's Report - J. Soroka

See Appendix A.

MOTION: Soroka/Mason. THAT the report be accepted as circulated.

CARRIED.

7. Secretary's Report - L. Grenkow

There wasn't much activity to report on, other than the purchase of the common

names disc, described in 5.1.

8. Newsletter Report - Wayne Goerzen submitted the following report.

The ESS Newsletter, Volume 17(1), was published on April 15th, and will be distributed shortly. This issue contained an announcement on the upcoming ESC/ESA joint meeting to be held in Edmonton, new ESS member profiles, and an update on new species of Saskatchewan insects in the collection of the Royal Saskatchewan Museum. The next issue of the ESS Newsletter will be published in late summer/early fall prior to the ESS fall meeting. Any ESS members interested in submitting an articles for inclusion in the newsletter are invited to do so at any time.

9. Regional Director's Report. - Keith Moore

The next meeting will be held in Edmonton this fall. A copy of ESC members names, addresses, and phone numbers will be available.

10. Committee Reports.

10.1 Teaching of Entomology in Saskatchewan - M. Erlandson, C. Gillott
No report.

10.2 Student and Amateur Encouragement - B. Galka submitted the following report:

The Chairman of the Youth and Amateur Encouragement Committee is pleased to report that since our last meeting three visits to schools have been conducted in order to promote our Society. The visits included a demonstration of recently-purchased exotic lepidopterans, as well as local species, to six classes of students in grades kindergarden to seven on February 04 at Victoria School. Each seminar was approximately 0.5 hrs. in length and of a fairly general nature. These seminars were conducted by myself. On February 07, kindergarden, grade one and two students were again presented with a seminar and demonstration at Victoria School which was conducted by Ms. Lori-Anne Kaminski. Thanks also to Mr. Vaughn Leuschen who has given two demonstrations at Martensville Elementary since January 1997.

The Society once again participated in Gardenscape at the Prairieland Exhibition Grounds. The event consisted of demonstrating various aspects of entomology to students of several urban and rural grade two classes. The theme for this year was again "Good Bugs - Bad Bugs", with a number of live and mounted specimens on display. Both students and demonstrators were very enthusiastic. Thanks to Murray Braun, Nancy Melnychuk, Peter Mason, Lori-Anne Kaminski, Keith Moore, Stephanie Harris, Peter Kusters, Ross Weiss and Rebecca Hallet for their participation.

The Society has also purchased three educational entomology videos from Bioquip Products with the aid of an educational grant from the Entomological Society of Canada. The videos are entitled "Discover Entomology", "Insect Identification - II", and "Collection and Preservation of Insects". The videos vary in length from 15 to 23 minutes and come in a VHS format. Cost of the videos was \$147.90 (U.S. Currency, shipping costs and taxes not included). The total came to approximately \$258.00 Canadian.

The Committee looks forward to more publicity ventures for the Society in the

coming months.

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

CARRIED.

10.3 Proceedings and Archives

No report.

10.4 Honors and Awards

No report.

10.5 A.R. Brooks Award

No report.

10.6 Microscope

No report.

10.7 Slide Library - Diether Peshchken's report is attached as Appendix B.

10.8 Fall meeting - deferred to 11.1.

10.9 ESS Membership -

Julie reported that we have 50 - 55 members, and fees are due.

11. New Business.

11.1 Fall Meeting - George Khachatourians.

George proposed that this year the fall meeting will be a scientific presentation, to be held in November. He will approach the executive regarding assembling a program, which tentatively will include 1 or 2 guest speakers and up to 12 scientific presentations.

11.2 1999 ESC/ESS Joint Meeting - dealt with in 5.2.

11.3 Inquiry Regarding Forensic Entomology -

Julie has been asked by the public for information on forensic entomology. Several members at the meeting suggested sources who might provide information.

12. Adjournment.

Appendix A

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

FINANCIAL STATEMENTS
(Audited)

AUGUST 31, 1996

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

AUGUST 31, 1996

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AUDITORS' REPORT

To the Members of
ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN

We have audited the balance sheet of ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN as at August 31, 1996 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 Society as at August 31, 1996 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.
February 20, 1997

ACCOUNTANTS & CONSULTANTS

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN
BALANCE SHEET
AS AT AUGUST 31, 1996
(Audited)

	<u>1996</u>
ASSETS	
CURRENT	
Banks	\$ 16,830
Term deposits	<u>23,000</u>
	<u>39,830</u>
	\$ <u>39,830</u>
LIABILITIES	
MEMBERS' EQUITY	
MEMBERS' EQUITY	<u>39,830</u>
	39,830
	\$ <u>39,830</u>

APPROVED ON BEHALF OF THE BOARD:

Randy E. Grawbow Director
March 04, 1997

See Accompanying Notes
Subject To Auditors' Report Dated February 20, 1997

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN
STATEMENT OF RECEIPTS, EXPENDITURES AND MEMBERS' EQUITY
YEAR ENDED AUGUST 31, 1996
(Audited)

	<u>1996</u>
General Receipts:	
Memberships	\$ 535
Annual meeting	313
ESC amateur encouragement	200
DevCon display	100
Interest income	652
Refund income	50
	<u>1,850</u>
Other income:	
ESS Canola Video Project on page 4	18,112
ESS Slide Library on page 5	1,139
	<u>19,251</u>
Total income	21,101
General expenditures:	
Administration charges	29
Bank charges & interest	9
Dues & fees	30
Insect displays	300
Meetings	358
Memorials	100
Office supplies	171
Scholarships	500
Subscriptions & dues	50
TOTAL EXPENDITURES	<u>1,547</u>
Excess of receipts over expenditures	19,554
Members' equity, beginning of the year	<u>20,276</u>
Members' equity, end of the year	<u><u>\$ 39,830</u></u>

See Accompanying Notes
Subject To Auditors' Report Dated February 20, 1997

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN
STATEMENT OF ESS CANOLA VIDEO PROJECT RECEIPTS & EXPENDITURES
(Audited)
YEAR ENDED AUGUST 31, 1996

	<u>1996</u>
Receipts:	
Grants	\$ 31,969
Donations	14,550
Interest	<u>197</u>
	46,716
Expenditures:	
Bank Charges	6
Courier charges	107
Equipment	1,150
File costs	27,255
Travel	<u>86</u>
	28,604
Net income ESS Canola Video Project	\$ <u>18,112</u>

See Accompanying Notes
Subject To Auditors' Report Dated February 20, 1997

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN
STATEMENT OF ESS SLIDE LIBRARY RECEIPTS & EXPENDITURES
(Audited)
YEAR ENDED AUGUST 31, 1996

	<u>1996</u>
Receipts:	
Sales	\$ <u>1,368</u>
	1,368
Expenditures:	
Bank charges	3
Films & slide duplication	223
Slide holders	<u>3</u>
	229
Net income ESS Slide Library	\$ <u>1,139</u>

See Accompanying Notes
Subject To Auditors' Report Dated February 20, 1997

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN
NOTES TO THE FINANCIAL STATEMENTS
(Audited)
AUGUST 31, 1996

1. ACCOUNTING POLICIES

The accounting policies are in accordance with generally accepted accounting principles for Non-Profit Organizations.

Fixed assets

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

Appendix B

ESS SLIDE LIBRARY
INTERIM FINANCIAL REPORT AND COMMENTS
1 SEPTEMBER 1996 - 22 APRIL 1997

RECEIPTS

Sale of slide copies	\$ 2,540.50	\$ 2,540.50
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EXPENDITURES

Bank charges	\$ 11.38	
Slide duplication	635.80	
Labels	<u>326.35</u>	
Operating expenses	\$ 973.53	\$ 973.53

Cheque to Ent. Soc. Sask.	\$ 1,200.00	
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Total expenditures	\$ 2,173.53	\$ 2,173.53
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Receipts minus Operating expenses \$ 1,566.97

ASSETS

Bank Balance 22 April 1997	\$ 1,788.07
Membership Page Credit Union	15.00
Outstanding Invoice	1,012.00
<u>Minus outstanding cheque</u>	<u>(\$ 1,200.00)</u>

Total assets 22 April 1997	\$ 1,615.07
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RECONCILIATION

Receipts minus total expenditures plus outstanding invoice:
 $\$ 2,540.50 - 2,173.53 + 1012.00 = \$ 1,378.97$

Assets 22 April 1997 minus assets 31 Aug. 1996:
 $\$ 1,615.07 - 236.10 = \$ 1,378.97$

COMMENTS

Business was good. Slides were purchased from as far away as Colorado, by advertising firms, universities, Agriculture Canada, and provincial agriculture departments, who usually contacted first Lloyd Harris.

Not included in above assets is our inventory of about 640 slides plus copies, which at \$ 1 a piece would be worth about \$ 2,500.

Your comments are welcome.

Respectfully submitted



Diether Peschken

22 April 1997