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The editor wishes to thank Art Davis, Cedric Gillott, Larry Grenkow, Jack Gray and Lorraine Braun for their assistance in the preparation of this issue of the ESS Newsletter.

In Memoriam –

Glenn Gilkinson

The Society lost one of its former members, Glenn Gilkinson, on February 29, 2004. Glenn worked for many years at the Saskatoon Research Centre as a technician with Paul Riegert, Owen Olfert and Roy Pickford. He helped with studies on chemical control of grasshoppers, parasite collections, rearing of cultures, mapping, and forecast of outbreaks. Later, Glen was involved in studies of biology and control of the wheat blossom midge. Glenn retired in 1988. The following is a reprint of Glenn's obituary as printed in the Saskatoon Star Phoenix, March 16, 2004:

GILKINSON _In loving memory of Glenn L. Gilkinson who died peacefully on February 29, 2004 at a private care home in Saskatoon. Glenn was born in Pasadena, California on January 6, 1924. His family moved to Saskatchewan in 1926. In February 1942 Glenn enlisted in the army, serving in the United Kingdom and Northwest Europe with the 7th Reconnaissance Regiment (17 Duke of York's Royal Canadian Hussars). During the invasion of Normandy he was posted to the Queen's Own Rifles, later rejoining his regiment until the end of the war. In 1946 he was discharged as a trooper in Winnipeg. Following the war Glenn married Bess King of Eston and two children followed, a daughter, Jo Anne and a son Stephen L. He farmed for nine years at Richlea then moved to Saskatoon. Glenn joined Canadian Forestry as a Technologist in plant pathology and ten years later he joined Canada Agriculture as an entomology technician. Glenn loved baseball and played for Richlea and Eston, with additional training in Corpus Christie, Texas. He later became an avid golfer and played passionately for the rest of his life. He was a longtime member of the Legion, Nutana Branch 362 and he called Legion Manor home for many years. Glenn is survived by son Stephen; daughter Jo, her husband Don, and grandsons Jess and Mike; brother Ken (Ethyl) and family; niece Elenor and family; niece Margarite and family; nephew Bob and family. He was predeceased by his parents Joe and Harriet; sister Hazel and her husband Roy. Glenn was cremated on March 2, 2004. At his request there was no service. His ashes will be scattered by family at a later date.

Charlie Devlin

DEVLIN _Charlton George, born March 28, 1913 Cranbrook, BC, passed away at Saskatoon City Hospital, in the presence of family members on July 3, 2004. He is survived by his wife, Gertrude (Tucker); son, David and wife, Valerie (of Calgary); daughter, Dianne Devlin; grandchildren,

Angela and David Sartoretto; great grandson, Julian Sartoretto; brother, Frank and wife, Lillian Devlin (of Brantford, ON). Charlton worked for 36 years at the Canada Agriculture Research Station on campus, in the Entomology Department, specializing in cutworm research. Prior to his employment with Canada Agriculture, he served in the Canadian Armed Forces during WWII, with the South Saskatchewan Regiment as Company Sergeant Major, was a survivor of Dieppe, later injured in Normandy and returned to Canada. He was very community minded during his lifetime. As a charter member of the Royal Canadian Legion Nutana Branch 362 he acted in the capacities of Branch President and Zone Commander. One of his proudest moments was to be presented with a Life Time Service Award from the Legion. In the later part of his life, he spent considerable time speaking to children in Saskatoon Schools about Dieppe, his war experiences and the need to find alternative means of conflict resolution. His role as Father brought him into the world of sports, he was one of the early organizers and coaches in the Saskatoon Playground Hockey League, receiving recognition as a Life Member for his contributions. He also coached baseball in the late 50's early 60's and was affiliated with the Saskatoon Lions Speed Skating Club, serving at a local and national level. Charlton had a great passion for gardening and hunting and fishing through out Saskatchewan. He loved flowers and during the spring summer months could be found with his hands in the dirt. He was a man of the land, nothing was better than to be on a secondary road checking out the crops and the wide open spaces of Saskatchewan. In his latter years he discovered a new passion, "grandchildren", which he delighted in, and developed strong relationships with. Through out his life he maintained a zest for living. Funeral Services will be held at Saskatoon Funeral Home Wednesday, July 7, 2004 at 3:00 p.m., officiated by Rev. Bill Shank; Legion Rites, Lorne Wood and members of Nutana Legion 362; internment Woodlawn Cemetery ("Soldiers Field of Honor"), reception to follow at Saskatoon Funeral Home Edwards Center. Special thanks and acknowledgement to the doctors and nurses on the 6th floor of the City Hospital, plus Rev. Bill Shank who provided Charlton and family with "compassionate care". In lieu of flowers, the family request donations to be made to the Heart and Stroke foundation. Email condolences may be sent to mail@saskatoonfuneralhome.com. Arrangements have been entrusted to the Saskatoon Funeral Home.

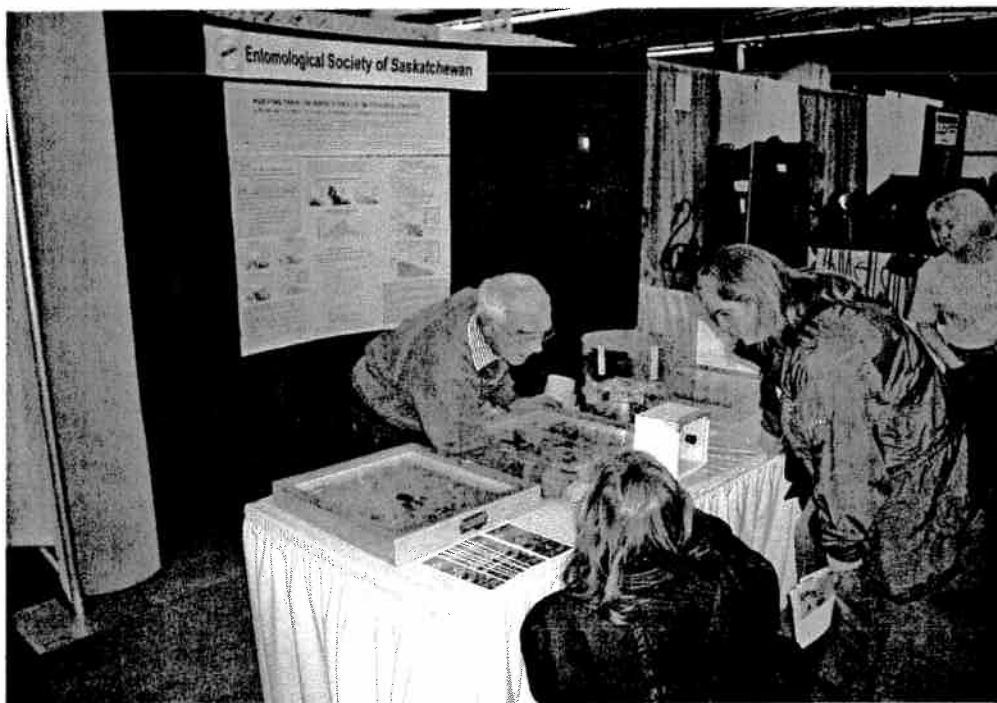
GardenScape

The Saskatoon Prairieland Exhibition Corp. hosted this year's Gardenscape "Little Green Thumbs School Tour Program" on Thursday, March 25th and Friday March 26th. This year's theme was "Good Bugs, Bad Bugs". Volunteers from Agriculture and Agri-Food Canada and members of the Entomological Society of Saskatchewan educated 818 grade 2 and 3 students and their teachers on the impact that insects have on our lives. Thank you to Alison Paton for preparing the living insects displays, and to Brian Galka, Dwayne Hegedus, Owen Olfert, Tyler Wist, Amanda Neudorf, Keith Moore, Dan Sutherland, Lorie Jones-Flory, Tim Saretski, Stephanie Ethier and Jennifer Holowachuk for giving the presentations and answering a lot of "bug" questions.

GardenScape 2004 also hosted a booth for the Entomological Society of Saskatchewan on Friday March 26th, Saturday March 27th and Sunday March 28th. The booth contained living and pinned insect displays as well as posters on entomological work done at Agriculture and Agri-Food Canada and a VCR running the tape "Discover Entomology". Thank you to Alison Paton for preparing living insects display and to Cedric Gillott for adding cockroaches and locusts among the living bugs

on the booth. Thank you to Brian Galka for setting up and packing the ESS booth. Thank you to Cedric Gillott, Nina Mohr, Larry Grenkow, Owen Olfert, Tiina Bundrock, Gillian Murza, Julie Soroka, Jon Geissler, Natalie Labbe, Art Davis and Dana Nordin, for staffing the booth, showing the displays and answering a lot of questions. Thank you to all of you for volunteering. To the rest, you can always join next year.

Submitted by Chrystel Olivier, Chair, Amateur and Youth Encouragement Committee



Cedric Gillot discusses some of the finer points of entomology with some curious onlookers at the Entomological Society of Saskatchewan booth at GardenScape.



Tim Saretski was one of the speakers at the Good Bugs – Bad Bugs Little Green Thumbs School Tour Program.

Scholarship Awarded

Congratulations to Tara Gariepy who has received the R. Jan F. Smith Scholarship awarded by the University of Saskatchewan Department of Biology. The scholarship, valued at \$2,000, will be used to defray Tara's travel costs to and from Europe where she is collecting parasitoids of Lygus bugs as a component of her Ph.D. research.

Missing Photos

If anyone has any photos or negatives of the entomologists which went to the Great Sand Hills as part of the 1995 ESS Fall Meeting, please contact Peter Kusters at (306) 956- 7292 or kustersp@agr.gc.ca.

Annual International Butterfly Count Held

The following article was originally printed in the Saskatoon Sun, July 25, 2004 and is scanned to this newsletter. Mike Gollop is the author...

The International Butterfly Count is the butterfly's equivalent to the Christmas Bird Count. The butterfly counts began in 1974: in 2003 counts were made at 471 locations across North America including 56 in Canada and 16 in Saskatchewan. Results from the continent-wide count are collected and published by the North American Butterfly Association. The counts are intended to increase interest in butterflies and

to establish a base level for monitoring butterfly population trends on a broad basis.

The Saskatoon count is in its 10th year and is generally held on the first or second weekend of July. Prior to 2004 the average number of species per count was 30, ranging from a low of 21 in 2000 to a high of 40 in 2001, The average number of individual butterflies counted over this same period was 550 ranging from 215 in 2000 to 1058 in 2001.

This year's Saskatoon count was held July 10. Six participants observed 21 species and counted 138 individual butterflies. This tied the previous record for low number of species set in 2000 and established a new low count of individuals. These low numbers were probably due to the cool wet conditions which have resulted in lower than normal numbers of many insects including mosquitoes, grasshoppers and dragonflies. With the lush conditions and abundant flowering plants now present in the Saskatoon area it is probable that a return to more seasonal temperatures will result in an increase in the low numbers of butterflies and other flying insects.

One species was recorded this year for the first time in the history of the Saskatoon count. A single Ridings' Satyr was found on a small piece of native grassland near the CBC TV Tower. This species is typically found on extensive areas of grazed grassland and reaches the northern limit of its range in the Saskatoon area although there is an isolated record from Shellbrook.

Anyone interested is welcome to participate in future International Butterfly Counts. More information on these counts can be had by contacting a representative of the Saskatoon Nature Society.

Gollop writes for the Saskatoon Nature Society.

What Next?

Last summer, we heard quite a bit about West Nile Virus in Saskatchewan. The province recorded 940 known human cases including six fatalities attributed to the disease. This year, Alberta is gearing up for what could be a large increase in the number of equine and human cases. As in Saskatchewan, *Culex tarsalis* is likely to be the primary vector.

As of August 18, 2004, Saskatchewan Health reports a total of 18 birds and 11 mosquito pools testing positive for the virus. By comparison, 37 mosquito pools, 157 birds and 133 horses tested positive for the virus in 2003. A cool, wet summer helped to keep viremia levels low in 2004.

In the U.S., periodic cicadas will be coming out en masse. The following was taken from CNN's website, March 12, 2004:

Swarm of Cicadas Takes Aim at U.S.

Noisy bugs set to emerge in May after 17 years of quiet

Friday, March 12, 2004 Posted: 1926 GMT (0326 HKT)

STATE COLLEGE, Pennsylvania (AP) -- After 17 years of relative quiet, Mother Nature is bringing the noise.

Periodical cicadas, a species of the grasshopper-like insects best known for the scratching, screeching "singing" of the males, will emerge this May, filling forests in more than a dozen states. Almost as abruptly as they arrive, they disappear underground for another 17 years.

"Why do certain insects take only one year to develop, and others take two or three? It's just part of their genetic programming," said Greg Hoover, senior extension entomologist for Penn State University.

There are at least 13 broods of 17-year cicadas, plus another five broods that emerge every 13 years. The last to emerge, Brood IX, was seen last spring in parts of West Virginia, Virginia and North Carolina.

This year, it's time for Brood X, the so-called "Big Brood," to surface. Its range stretches from Georgia, west through Tennessee and to isolated pockets of Missouri, north along the Ohio Valley and into Michigan, and east into New Jersey and New York.

"This is one of those years we kind of dread," said Paris Lambdin, professor of entomology and plant pathology at the University of Tennessee. "We had an emergence a couple years ago around Nashville, but nothing like what we expect this one will be."

No other periodical cicada covers so much ground. And with hundreds of them per acre in infested areas, the noise will be hard to miss.

"In 1987, coming back from the University of Maryland on Interstate 95, when you drove through a wooded area you could hear the insects," Hoover said. "This would have been mid to late June, with the windows down, and then it would shut down when you got to a field or a non-wooded area."

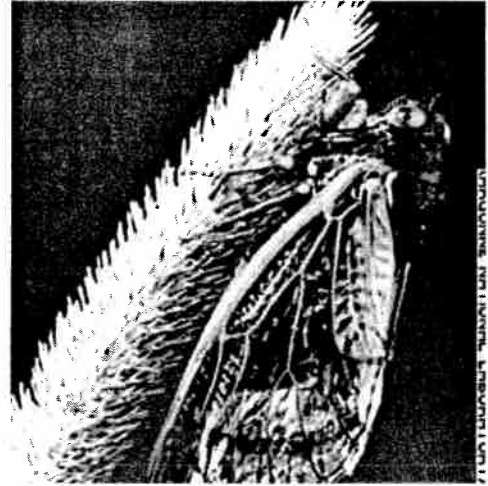
In rare years, a 13-year brood can emerge to add its collective voice to that of a 17-year brood.

"Out in the Midwest is where things get really hairy," Hoover said. "Missouri, Illinois, Indiana have combinations of 17-year-brooded individuals and 13-year-brooded individuals, and they can have overlap."

There's no question that the class of 2004 will be a nuisance. The cicadas will make plenty of noise, and adults are poor fliers that tend to bump into things.

But as swarms go, these cicadas aren't that bad. Adults don't feed on leaves, so they won't strip the trees, but they do lay their eggs in twigs.

"The females, once mated, will lay pockets of eggs along twigs that will cause structural weakening of those twigs," Hoover said. "Eventually they may drop off and fall to the ground, the nymphs will drop off and fall to the soil, and that's where this species is for the next 17 years."



Some periodical cicadas surface once every 17 years.

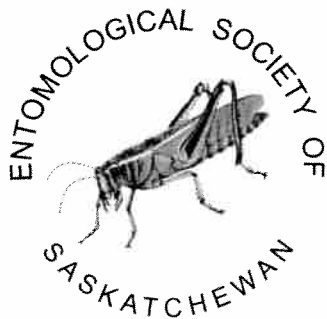
Saskatchewan Insect Forecast and Surveys

Saskatchewan insect forecast and survey maps can be found at:

http://www.agr.gov.sk.ca/Crops/Integrated_Pest_Management.asp?firstPick=Crops&secondpick=Integrated%20Pest%20Management&thirdpick=Insects&selection=Insects



Cartoon courtesy of Jerry Palen, Grainews, March 8, 2004



Minutes of the Spring Meeting of the Entomological Society of Saskatchewan

Agriculture Canada Research Station, Saskatoon

13:30. April 30. 2004

PRESENT: Lorraine Braun, Murray Braun, Phil Curry, Brian Galka, Cedric Gillott, Jack Gray, Larry Grenkow, Scott Hartley, Dwayne Hegedus, Keith Moore, Chrystel Olivier, Tyler Wist.

The meeting opened with an absorbing and timely presentation by Dr. Phil Curry on West Nile virus in Saskatchewan. An ensuing lively question period ended with the start of the business meeting at 14:45.

1. **Call to order** at 14:45 by President Jack Gray.
2. **MOTION:** Grenkow/Braun. THAT the agenda as modified be accepted.
CARRIED.

3. MOTION: Curry/Gillott. THAT the minutes of the Fall Meeting, December 1, 2003, be accepted
CARRIED.

4. Business arising from the minutes.

4.1 Margaret McKay Scholarship – Jack Gray

Three applications were received. The prize was awarded to Tara Gariepy for this year, and for a second year pending budget approval. The prize likely will be for two years. The deadline for the next round of applications will be April or May 2006.

4.2 ESA – ESS joint annual meeting – Cedric Gillott

Representatives from the Entomological Society of Alberta are very busy so plans are slow to be organized. The ESA is following the ESS's recommendations and have nominated members for the committees. It is agreed that Lloydminster should be the venue. Dates suggested by the ESA are Oct. 28-30, Thursday afternoon, Friday, and Saturday morning. The next step is to begin to take action. Phil Curry volunteered to be part of the local arrangements committee, and together with a member of the ESA will scout out what Lloydminster has to offer.

MOTION: Gillott/Curry. Agree THAT the meeting will be held Oct. 28 – 30.
CARRIED.

The ESS representatives of committees have not yet been approached. They are: local arrangements – Phil Curry and Dwayne Hegedus, scientific program – Cedric Gillott and Martin Erlandson (Jack will contact Martin), registration and budget (accepts registration, monies, and abstracts) – Julie Soroka and Lorraine Braun.

Peter Nareschi has been invited as a paid speaker. He might be a good choice as an after dinner speaker.

5. Treasurer's Report – Dwayne Hegedus

See Appendix A.

6. Secretary's Report - L. Grenkow

The ESS constitution with the amendments that were proposed and accepted at the business meeting on December 1, 2003, was put on the web site. The latest issues of the Proceedings have been filed with Saskatchewan Archives.

MOTION: Grenkow/L. Braun. THAT the Secretary's report be adopted.
CARRIED.

7. Report of the Newsletter and Proceedings Editor – Brian Galka.

The last edition of the ESS newsletter was published on September 27, 2003. The editor wishes to thank Jack Gray, Cedric Gillott, Larry Grenkow and Ron Hooper for their input. The next edition will likely be forthcoming in May or June of 2004. Submissions and suggestions are always welcome.

The Proceedings of the Entomological Society of Saskatchewan have been completed for 2002 and 2003. Members, as well as the Saskatchewan Archives, have received copies from both years. Suggestions regarding content and format are welcome.

MOTION: Galka/Gillott. THAT the newsletter editor report be adopted.
CARRIED.

Cedric expressed gratitude to Brian for the extra effort taken to get out the 2002 Proceedings, as well as the 2003 issue.

8. Regional Director's Report. – Lorraine Braun.

The annual fall meeting of the Entomological Society of Saskatchewan was held on December 1, 2003 at Saskatoon with 20 members present. The scientific program included presentations by graduate students Nina Mohr, Tim Saretski, Tyler Wist and Tara Gariépy, NSERC VF Dr. Muhammad Ashfaq, and Research Scientist Dr. Dwayne Hegedus. The graduate student competition was won by Tyler Wist for his presentation “Studies of *Echinacea angustifolia* and *E. Purpurea*, their native pollinators and the viability of using the alfalfa leaf cutting bee (*Megachile rotundata* F.) to increase seed production” [Tyler Wist and Dr. A.R. Davis, Department of Biology, University of Saskatchewan].

The Business Meeting included reports from the Treasurer, Secretary, and Newsletter Editor. Brian Galka took over as Newsletter editor from Wayne Goerzen. Although the Society remains fairly small (49 members in good standing), Society finances are in good shape. The ESS website has been updated [<http://www.usask.ca/biology/ess/>] and includes photos from the 50th Anniversary Spring 2003 meeting. Nina Mohr, a Ph.D. candidate with Dr. Jack Gray won the A. R. Brooks Memorial Prize.

A lively discussion of proposed Amendments to the ESS Constitution occurred. The members thanked Cedric Gillott, Diether Peschken, and Owen Olfert for their efforts in preparing the proposed participating in a joint meeting with Alberta in Lloydminster for fall 2004. And members unanimously agreed to host the 2007 JAM with the Entomological Society of Canada in 2007.

The executive for 2004 includes President - Jack Gray; Past President - Cedric Gillott; President Elect - Philip Curry; and Regional Director - Lorraine Braun. Executive staff includes Secretary - Larry Grenkow; Treasurer - Dwayne Hegedus; and Proceedings Archives and Newsletter Editor - Brian Galka.

Jack Gray has sent a formal acceptance to Peter de Groot that the ESS will host the joint meeting in 2007.

9. Student and Amateur Encouragement – Chrystel Olivier

See Appendix B.

The ESS had a booth at Gardenscape. ESS volunteers gave talks to 818 schoolchildren, which is fewer than last year, the reason being that two schools did not show up.

\$600 has been received from ESC for youth encouragement. An option is to use the money to buy a digital camera, but in the letter of application for the funding it was stated that the money would be used for pinned insects, tapes, specimens, and or cds of slides.

MOTION: L. Braun/Olivier. THAT reports 9 & 10 be accepted. **CARRIED.**

10. New Business.

10.1 Biological Survey of Canada- Lorraine Braun for Owen Olfert,

The Biological Survey of Canada (BSC) develops and coordinates systematic, faunistic and conservation entomology on behalf of the Canadian Museum of Nature and the Entomological Society of Canada. I attended my first meeting (April 22-23) of the BSC in Ottawa, replacing Kevin Floate on their scientific committee.

In addition to developing and coordinating scientific projects related to surveys of endangered species, native fauna and invasive species, the BSC also publishes scientific briefs on a broad range of related topics (see available copies), and maintains a comprehensive website of their activities and publications (<http://www.biology.ualberta.ca/bsc/bschome.htm>).

I would like to report on a few items that may be of particular interest to ESS:

(i) The BSC would like to request that ESS consider putting a link to the BSC website on our home page. If this is acceptable, they can provide a downloadable image/button for this purpose.

(ii) A major initiative that is currently underway for the BSC is the Arthropods of Canadian Grasslands. The objective of the project is to publish three volumes: (a) Ecology and Interactions in Grassland Habitats; (b) Arthropods and Altered Grassland Ecosystems and (c) Fauna of the Canadian Grasslands. Volume I is well underway with about 15-20 chapters on various topics related to grassland ecology. Kevin Floate (AAFC - Lethbridge) is currently drafting an outline of topics for Volume II and will probably be approaching ESS members for input into the volume on altered grassland ecosystems. Jeff Cumming (AAFC - Ottawa) is coordinating the volume on arthropod fauna. The BSC also publishes a grasslands newsletter periodically (see copy of No. 10, 2004)

(iii) Related to the grasslands project, the focus site for 2004 is Aweme, MB (Aweme is the homestead of Norman Criddle). The BSC has planned a "Bioblitz" at Aweme for June 5-6, 2004. A "Bioblitz" uses natural history, ecology and taxonomy to bring together public, local amateurs and scientists. The idea is to survey the flora and fauna of the focus area and identify and record all of the observed or collected species from as many taxonomic groups as possible in a 24-hour period. If interested, view the BSC website for more information or contact Bill Gallaway (gallaway@brandonu.ca).

The meeting adjourned at about 4 pm.

Minutes recorded by Larry Grenkow, Secretary

APPENDIX A

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN MEMBERSHIP AND INTERIM FINANCIAL REPORT

01 September 2003 – 31 March 2004

MEMBERSHIP

- To this point in 2003-2004 the ESS has 59 members (47 full and 12 students – 5 Life Members) of which 49 are in good standing. A life membership was purchased by Owen Olfert.

ESS GENERAL ACTIVITIES

- The main sources of income were from membership dues with \$850.00 collected and interest income of \$809.22 during this period. A cheque for \$600.00 was received from the ESC to support the Youth and Amateur Encouragement initiatives.

FINANCE

- The ESS total assets are as follows:

| | |
|----------------------|---|
| Term Deposits | \$32,000.00 (2 @ \$10,000 and 1 @ \$12,000) |
| Chequing | 2,290.14 |
| Outstanding deposits | <u>.00</u> |
| Total | 34,290.14 |

- The Society's Registered Charity and Non-Profit Corporations status were renewed.
- The Society's Registered Charity Tax Return was filed in November.

Please refer to the enclosed financial statement for further details.

Financial Statement – Entomological Society of Saskatchewan 01 September 2003 – 31 March 2004

MAXIMIZER ACCOUNT (ESS)

Receipts:

| | |
|--|---------------|
| Memberships | \$ 850.00 |
| Outstanding deposits | .00 |
| Interest (CU Maximizer and Term Deposit) | <u>809.22</u> |

TOTAL 1,659.22

Expenditures:

| | |
|---------------------|-------------|
| Printing | 74.44 |
| Minister of Finance | 10.00 |
| Brooks Award | 500.00 |
| Meeting Expenses | 455.35 |
| Postage | 10.78 |
| Bank Charges | 26.60 |
| Misc. | <u>9.43</u> |

TOTAL 1,086.60

Excess of Receipts over Expenditures \$ 572.62

APPENDIX B

Appendix B was not presented at the business meeting, and is listed here for information only.

Youth and Amateur Encouragement Report April 30th 2004

Adult and Youth Activities

GardenScape 2004 hosted a booth for the Entomological Society of Saskatchewan on Friday March 25th, Saturday March 26th and Sunday March 27th. The booth contained living and pinned insect display as well as posters on entomological work done at Agriculture and Agri-Food Canada. Thank you to Alison Patton for preparing living insects and thank you to Cedric Gillott, Nina Mohr, Larry Grenkow, Owen Olfert, Tiina Bundrock, Gillian Murza, Julie Soroka, Jon Geissler, Natalie Labbe, Art Davis and Dana Nordin for staffing the booth, showing the displays and answering a lot of questions.

Youth Activities

On January, 23rd 2004, C. Olivier gave a talk to grade 2 students at the Brunskill School in Saskatoon about insect life cycle and on April 23rd 2004, C. Olivier participated in a reading camp at the Ecole Canadienne Française in Saskatoon and read a lot of "bug stories".

The Saskatoon Prairieland Exhibition Corp. hosted this year's Gardenscape "Little Green Thumbs School Tour Program" on Thursday, March 25th and Friday March 26th, with the theme "Good Bugs, Bad Bugs". Volunteers from Agriculture and Agri-Food Canada and members of the Entomological Society of Saskatchewan educated 818 grade 2 and 3 students and their teachers on the impact that insects have on our lives. Thank you to Alison Paton for preparing the living insects displays, and to Brian Galka, Dwayne Hegedus, Owen Olfert, Tyler Wist, Amanda Neudorf, Keith Moore, Dan Sutherland, Lorie Jones-Flory, Tim Saretski and Stephanie Ethier for giving the presentations and answering a lot of "bug" questions.

Funding

In 2004, the ESS received \$600.00 as education funds from the ESC. The use of this money is discussed (pinned insects, camera, video tapes).

Cedric Gillott
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