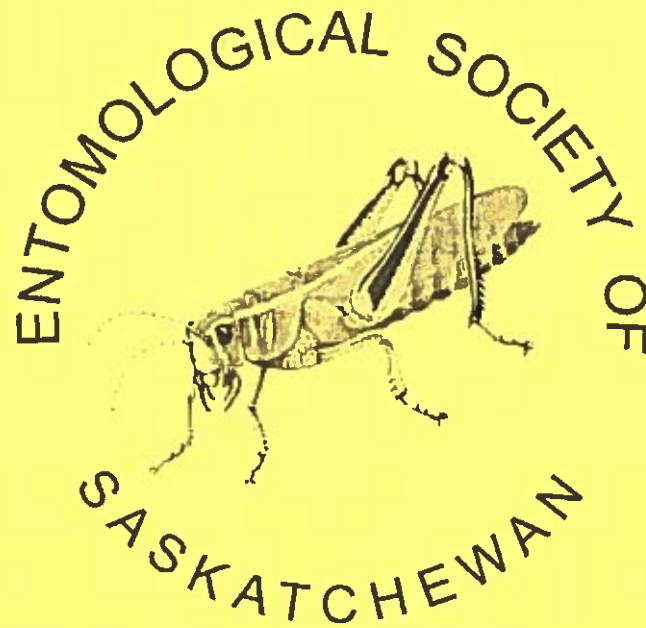


Proceedings of the



Volume 56

2008

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Proceedings of the Entomological Society of Saskatchewan

Volume 56

Editor: Brian Galka

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Editor's Comments

The Society had 55 members for 2007/2008, including 46 full, 9 student and 9 Life Members. This number is about same as the previous year. A copy of the Proceedings of the Entomological Society of Saskatchewan for 2007 was given to the Saskatchewan Archives.

The 58th annual meeting of the Entomological Society of Canada took place at Ottawa in 2008.

The Society mourns the loss of Al Ewen, who was a longstanding member of the Society, and passed away on September 25 at the age of 75. Al joined the Entomological Society of Saskatchewan in 1958, and was President of the Society from 1962-1963. Bill Turnock, Cam Jay, and Ed Becker also passed in 2008. Though not members of the ESS, these noteworthy entomologists had many longtime friends in the ESS.

Newsletters were published on January 4 and November 18 of 2008. Thanks go to those who made submission and suggestions to the editor.

Thanks to each of the executive and committee members for doing a commendable job executing the duties of their elected offices.

Executive Members for 2007/2008

Executive:

President..... Bryan Sarauer
Vice President..... Owen Olfert
Past President..... Julie Soroka
Secretary..... Ruwandi Andrahennadi
Treasurer..... Dwayne Hegedus

Committee Members:

Youth and Amateur Encouragement.....Chrystel Olivier and Brian Galka
Newsletter Editor, Proceedings Editor..... Brian Galka
Representative to the Ent. Soc. of Canada.....Chrystel Olivier
A.R. Brooks Award.....Chrystel Olivier, Scott Hartley, Cedric Gillott
ESS Membership.....Dwayne Hegedus
Teaching of Entomology.....Cedric Gillott

Auditor: Wayne Goerzen and Martin Erlandson



Minutes of the Spring Meeting of
the Entomological Society of Saskatchewan
2nd Floor Conference Room
Agriculture Canada Research Station, Saskatoon
13:30 pm, April 04 2008

PRESENT: Anna Leighton, Lorraine Braun, Keith Moore, Cedric Gillott, Bryan Sarauer, Julie Soroka, Dwayne Hegedus, Scott Hartley, Diether Peschken, Brian Galka, Chrystel Olivier, Ruwandi Andrahennadi.

Regrets: Harvey Anderson

Presentation by Anna Leighton titled "Raising the profile of insects: one amateur's efforts" at 13:30

1. Meeting Called to order: at 13:50 by President Bryan Sarauer.

2. Introduction:

3. MOTION: Gillott/Hartley THAT the agenda be adopted. CARRIED.

4. MOTION: Braun/Soroka THAT the minutes of the Fall Meeting, November 30, 2007 be approved. CARRIED.

5. Business arising from the minutes:

5.1 ESS Support For Student Curator Assistance – Dwayne Hegedus has discussed this matter with Art Davis. It was suggested that a formal proposal by Bob Randell is needed to hire a student to assist with placing moth balls, correcting misidentifications and replacing old specimens.

5.2 Movement of archives to U of S - C. Gillott

Cedric Gillott delivered the ESS archives to the University Archives in December 2007. They will catalogue the archival material and let us know what they don't want. Cedric will look into the availability of these archives electronically.

5.3 Proposed Travel Award

A new travel award of up to \$500 will be available to a member of the ESS to promote entomological activities. Since this needs a constitutional amendment, a formal proposal will be put forward at the fall meeting by Dwayne Hegedus. It was agreed that all the members of the society be informed about this constitutional amendment prior to the fall meeting.

5.4 Outstanding items from the JAM

Julie Soroka informed the society that there were many compliments received regarding the JAM. Unsold literature that was donated to the JAM auction was sent to the provincial Forest Entomologist for their library. Julie received a letter from the Forest Entomologist, Dr. Rory McIntosh thanking the society.

6. Treasurer's Report – Presented by Dwayne Hegedus

See Appendix A.

Memberships have increased. There are 54 members and 8 lifetime members. Dr. Helen Nichol joined the society as a new life member.

The chequing account balance is \$3,840.96. A loan of \$2,000 given to the Joint Annual Meeting Organizing Committee of the ESS has been repaid. The ESS earned a profit of \$3,860 from hosting ESC 2007. A term deposit for \$5,000 was purchased.

MOTION: Gillott/Hartley. THAT the treasurer's report be adopted. CARRIED.

6. Secretary's Report – Ruwandi Andrahennadi

Larry Grenkow has stepped down as the secretary. The new secretary, sent out due reminders to the members on December 11, 2007. The minutes were taken from the executive meeting on January 18, 2008. A notice of today's meeting was circulated to all members. News items of interest were circulated to members as they were received.

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

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

The most recent edition of the ESS newsletter was published on January 04, 2008. The editor wishes to thank Cedric Gillott, Larry Grenkow, John Kozial and Ron Hooper for their input into the newsletter. Submissions and suggestions are always welcome. The 2007 Proceedings of the Ent. Soc. Saskatchewan (Volume 55) were completed and mailed in January. Copies of the proceedings and the newsletter were given to the Saskatchewan Archives in January 2008.

8. Regional Director's Report – Chrystel Olivier.

The next ESC meeting will be on April 26, 2008 in Ottawa.

The joint annual meeting of the ESC and Ontario (JAM 2008) will be held on October 19-22, 2008 at Crowne Plaza Hotel in Ottawa, Ontario. Commencement of registration for participation was March 15, 2008. Titles and abstracts for posters and oral presentations can be sent until August 31, 2008 (Organizing chair: John Huber).

The ESC is still looking for a secretary and a webmaster.

9. Nominations-

Brian Galka agreed to continue his work as the newsletter editor until November, 2008.

10. Committee Reports

10.1 Student and Amateur Encouragement – Chrystel Olivier

Gardenscape 2008 hosted a booth for ESS on March 28-30. Living insects including locusts, cockroaches and a black widow spider were displayed. Pinned insect displays as well as posters were presented.

It was requested that descriptions about displays to be made available for volunteers serving the ESS

booth before Gardenscape. Scott Hartley agreed to make these descriptions.

On February 15, Chrystel Olivier and Brian Galka gave an oral presentation about insects for 20 grade 2-8 students from the French School Pere Mercure (North Battleford). The presentation was held at AAFC, Saskatoon and included display of living and pinned insect specimens.

10.2 ESS Website –

No major modifications have been made.

MOTION: Braun/Sarauer. THAT the committee reports be accepted. **CARRIED.**

11. New Business.

11.1 Microscope– Bryan Sarauer reported for Harvey Anderson.

Anyone has access to the microscope. Anderson has given his contact information. Microscope will be in use by Anderson from November to January for wheat midge survey.

The meeting adjourned at 4.00 pm.

Minutes recorded by Ruwandi Andrahennadi, Secretary

APPENDIX A

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN MEMBERSHIP AND INTERIM FINANCIAL REPORT

01 September 2007 – 31 March 2008

MEMBERSHIP

- To this point in 2007-2008 the ESS has 54 members (43 full and 8 student – 8 Life Members) of which 26 are in good standing. The society has a new life member (Dr. Helen Nichol).

ESS GENERAL ACTIVITIES

- The main sources of income were from membership dues with \$570.00 collected and interest income of \$652.16 during this period.

FINANCE

- The ESS total assets are as follows:

Term Deposits	\$37,000.00	(2 @ \$10,000 and 1 @ \$12,000, 1@ 5,000)
Accrued Interest	492.96	
Chequing	3,840.96	
Outstanding deposits	65.00	
Total	41,390.92	(37,389.21 in 2007)

- The Society's Registered Charity and Non-Profit Corporations status were renewed.
- The Society's Registered Charity Tax Return was filed in November.
- A loan of \$2,000 to the ESC Joint Annual Meeting Organizing Committee to cover initial costs of the meeting was repaid.
- The ESS earned a profit of \$3,860 from hosting ESC 2007.
- A term deposit for \$ 5,000 was purchased.

Please refer to the enclosed financial statement for further details.

Financial Statement – Entomological Society of Saskatchewan 01 September 2006 – 31 March 2007

MAXIMIZER ACCOUNT (ESS)

Receipts:

Memberships	\$ 570.00
Outstanding deposits	65.00
Interest (CU Maximizer and Term Deposit)	562.16
T-shirt sales from (ESC 2007 meeting)	272.00
Donation (H. Anderson)	<u>100.00</u>

TOTAL	1569.16
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Expenditures:

Printing	0.00
Minister of Finance	10.00
Brooks Award	500.00
Meeting Expenses	0.00
Postage	3.86
Bank Charges	22.80
Misc.	<u>0</u>

TOTAL	536.66
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Excess of Receipts over Expenditures	\$ 1032.50
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ESS Travel Award:

April 4, 2008.

Background

The ESS is in a sound financial position.

The ESS mandate is to promote Entomology and Entomological Research.

This is fulfilled through outreach activities such as:

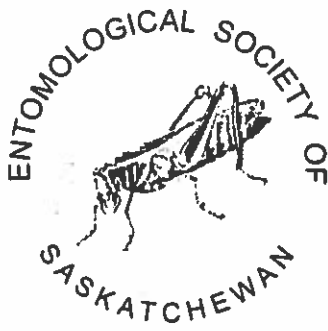
- Hosting regional and national meetings
- Extension activities (school presentations, Gardenscape, mall displays, public seminars)
 - annual grant of \$200 from ESC
- The Brook's Prize for graduate students

The Proposal

The ESS Travel award would be available to the entire ESS membership under a broad set of criteria that may include:

- Up to \$500 per year
 - the ESS does not have to offer the award if our finances do not permit (Brook's)
- Must be an ESS member in good standing (ie. dues paid)
- Used to attend a conference or to conduct entomological research or activities
 - budget or indication of how money will be used required
 - award holder may be asked to provide a short report
- Applications will be accepted during the same period as the Brook's prize
 - the award will be presented at the fall annual meeting

- Implementation (if approved) will require a constitutional amendment
 - brought forward at annual meeting



Minutes of the Fall Meeting of
the Entomological Society of Saskatchewan
2nd Floor Conference Room
Agriculture Canada Research Station, Saskatoon
13:00, December 05, 2008
(Approval required at the Spring Meeting, 2009)
Second Draft

PRESENT: Remko Verspui, Jessica Stolar, Tyler Wist, Umut Toprak, Huseyin Liysal, Lorraine Braun, Art Davis, Cedric Gillott, John Doan, Bob Randall, Dwayne Hegedus, Owen Olfert, Bryan Sarauer, Julie Soroka, Scott Hartley, Mike Hazel, Doug Baldwin, Jeff Boon, Margie Gruber, Ruwandi Andrahennadi.
Regrets: Brian Galka, Harvey Anderson

The fall meeting started with well delivered presentations given by four graduate students.

Remko Verspui:

Modification of odour-guided flight by visual stimuli induced by self-motion and object-motion in male *Manduca sexta*.

Jessica Stolar:

Behaviour and pollination efficiency of insect visitors to *Lilium philadelphicum* L. flowers in central Saskatchewan.

T. J. Wist:

Volatile cues in the ash leaf-cone roller, *Caloptilia fraxinella*, system.

Umut Toprak:

Mucins "always on guard": Characterization of insect intestinal mucin in *Mamestra configurata* (Lepidoptera: Noctuidae).

BUSINESS AGENDA

1. Call to order by President Bryan Sarauer

2. Introductions of the members

3. MOTION: Wist/Remko THAT the agenda be adopted. **CARRIED**

4. MOTION: Olfert/Wist THAT the minutes of the Spring Meeting, April 04, 2008 be approved.

CARRIED

A minute of silence was observed to honour Dr. Alwyn Ewen a former member and president of the Entomological Society of Saskatchewan, who passed away on September 25, 2008.

5. Business arising from the minutes.

5.1 Proposal of ESS New Travel Award

Dwayne Hegedus informed that the society's financial situation permits a new travel award up to \$ 500. This award will be available to ESS members with good standing. The award will be advertised through the websites of ESS, University of Saskatchewan and University of Regina. Application deadline for this award is September 1.

MOTION: Hegedus/Gillott **THAT** the proposed award be approved. **CARRIED**

5.2 ESS Constitutional Amendment

Dwayne Hegedus presented the proposed ESS constitutional amendment which was circulated to all members more than two weeks prior to this meeting. The amendment will allow the Awards Committee to administer the Society's awards. Dwayne advised that the amendment will also be available on the ESS, University of Saskatchewan and University of Regina websites.

MOTION: Gillott/Remko **THAT** the amendment be accepted. **CARRIED**

5.3 ESS Support for Student Curator Assistance - Art Davis

Art Davis presented a proposal for student curatorial assistant (Appendix A). It was proposed that ESS donate \$1000 to hire a student curatorial assistant.

Bob Randall emphasised the need to maintain the present insect collection to see the future changes meaning?. The student needs to recognize whether the drawers are infested or not. If infested, how to fumigate them. Use mothballs as a deterrent only.

It was decided that a report on the progress of the curatorial assistant needs to be presented at the fall meeting. Continuation of this project may be possible depending on the progress and availability of funding,

MOTION: Davis/Olivier **THAT** the motion for Art's proposal be accepted. **CARRIED**

6. Award Presentation:

Brooks Award: Julie Soroka commenting on the Brooks Prize said that in recognition of A. R. Brooks, a donation received from the Brooks family to ESS to promote entomological activities is awarded as the Brooks Prize. This year's winner is Umut Toprak, a Ph.D. candidate with Dwayne Hegedus.

Student Presentation Award: Best presentation award was given to Jessica Stolar, a M.Sc. student with Art Davis.

This year's Selection Committee was chaired by Julie Soroka. Julie thanked the other members of the Selection Committee, Jack Gray (Department of Biology University of Saskatchewan) and Scott Hartley (Saskatchewan Agriculture, Food and Rural Revitalization, Regina, SK).

The ESS is indebted to these individuals for their service on this year's Selection Committee, as well as to Owen Olfert, AAFC, Saskatoon, for preparing a fine certificate for the presentation.

7. Treasurer's Report - Dwayne Hegedus

See Appendix B.

Dwayne reported that the society has 46 full members, 9 life members and 9 student members. A new life member is Dr. Helen Nichol.

Items such as acrylic embedded insects were purchased as a teaching tool. A donation from Harvey Anderson is greatly appreciated. Thanks to Cedric Gillott for donating the honorarium he received for volunteer Entomological activities at the Sherbrooke Community Centre. Dwayne praised the outreach

activities done by Chrystel and Brian without claiming any expenses.

The Society is in a good financial situation and from the interest alone, the Society is in a position to present two annual awards.

MOTION: Olfert/Soroka. **THAT** the treasurer's report be adopted. **CARRIED**

8. Secretary's Report – Ruwandi Andrahennadi

Minutes were taken at the ESS spring general meeting on April 04, 2008. The agenda for this meeting was prepared and distributed along with the minutes of the spring meeting to all ESS members.

Membership contact information was updated and provided to the executive as needed. Applications for the Brooks Memorial Prize were received and the copies were distributed to the award committee. A membership renewal notice was sent out in July for 2007/2008 membership. Information on the Society was supplied to new membership inquiries. Upon a request by the Scott's Directory of Canadian Associations regarding the Society's consent to list ESS in their directory, the executive were contacted and replied OK to list ESS in their directory.

MOTION: Wist/Davis. **THAT** the Secretary's report be adopted. **CARRIED**

7. Report of the Newsletter and Proceedings Editor – Read by Bryan Sarauer for Brian Galka.
See Appendix C.

8. Regional Director's Report. – Chrystel Olivier.
Appendix D

9. Committee Reports

9.1 Student and Amateur Encouragement – Chrystel Olivier
See Appendix E.

9.2 ESS Website – Remko Verspui

Remko reported that the ESS website is hosted by the University of Saskatchewan servers and can be accessed through natural science directory. Additions to the website can be requested. However, Remko advised that he will no longer be able to maintain the website. He is willing to help someone in the transition. Somebody with on campus access is needed to maintain the website.

9.3 Microscope – Harvey Anderson

Harvey Anderson informed members that the microscope is in his possession and in good shape. It is available to anyone upon request.

9.4 Archives and Heritage Committee – Cedric Gillott

Cedric Gillott informed the membership that the death of four entomologists were reported in the last newsletter. Obituaries of Ed Becker, Al Ewen, Bill Turnock and Cam Jay are stated here as well.

9.5 Honours and Awards – Julie Soroka and Scott Hartley

Award committee thanked the students for their interesting presentations. It was mentioned that the members are encourage to submit nominations for the Entomological Society of Canada Gold Medal Award.

9.6 Nominations Committee - Owen Olfert

The nominations committee consists of three members in good standing. As stated in the constitution, it "shall nominate at least one candidate for each of the offices of President, Vice-President, Secretary and Treasurer, at least two candidates as auditors and, at every third annual meeting, one candidate to represent the Society on the Board of Governors of the Entomological Society of Canada." Vice-President Owen Olfert becomes President following the end of Bryan Sarauer's tenure. Cedric Gillott was nominated for Vice-President. Chrystal Olivier has completed her second year as Regional Rep. Wayne Goerzen and Owen Olfert will continue to be auditors of the ESS accounts. Dwayne Hegedus agreed to continue as Treasurer.

MOTION: Wist/Hartley. THAT the committee reports be accepted. **CARRIED**

10. New Business.

10.1 Installation of New Executive

As the new president, Owen Olfert thanked all the members of last year's ESS Executive and various members of ESS Committees for all the contributions to the Society.

10.2 Spring Meeting - Bryan Sarauer and Owen Olfert

The spring meeting is traditionally held during late March or early April. The date will be decided by the Executive.

The meeting adjourned at 4.45 pm.

Minutes recorded by Ruwandi Andrahennadi, Secretary

APPENDIX A

Student Curatorial Assistant (part-time)

(to be sponsored partially or entirely by the Entomological Society of Saskatchewan)

Background

These constitutional statutes of the Entomological Society of Saskatchewan (as a registered organization and charity) outline that its goals are to:

1. Provide a forum for discussion of entomology.
2. Promote research in entomology and conservation of insects.
3. Support students of entomology.
4. Stimulate public awareness of the importance of entomology.
5. Serve as a local agent in the conduct of the affairs of societies having similar interests.

Proposal

In order to help meet objectives 2-4 (directly or indirectly), it has been proposed at recent meetings of the Entomological Society of Saskatchewan, that the Society offer a studentship to an interested university undergraduate or advanced high-school student. The Honorary Curator of the provincial insect collections held at the Department of Biology, University of Saskatchewan and at the Research Station of Agriculture and Agri-Food Canada in Saskatoon, would be responsible for overseeing the activities of the student curatorial assistant.

The duties of the student curatorial assistant should include one or more of the following activities:

1. General maintenance (including application of moth balls to existing drawers of pinned insects; keeping the collection areas organized and clean).
2. Preparing and updating an electronic inventory (registry) of specimens held in the existing collections on campus.
3. Incorporation of donated undergraduate- (e.g., Biol 365.3 – Insect Diversity and Evolution; 466.3 – Aquatic Insects) and graduate-student collections, plus insects received from other collectors, into the existing collections on campus.

In future, it might be possible to add a further educational component, such as the collecting and curation of a specific group of insects of major interest to the student curatorial assistant.

It is proposed that the Entomological Society of Saskatchewan donate \$1,000 to this new position of student curatorial assistant, for the forthcoming year (2009). Along with a subcommittee representing the Society, the Honorary Curator would participate in the hiring of the student curatorial assistant each year. Thereafter, the Honorary Curator would oversee the weekly activities of the student curatorial assistant, and prepare an annual report for presentation at the Society's Fall Meeting that outlines the activities completed by the student assistant.

Proposed on behalf of the Entomological Society of Saskatchewan,
A. Davis (University of Saskatchewan), D. Hegedus (AAFC)

APPENDIX B

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN MEMBERSHIP AND YEAR END FINANCIAL REPORT

01 September 2007 – August 30, 2008

MEMBERSHIP

- In 2007-2008 the ESS has 55 members (46 full and 9 student – 9 Life Members) of which 39 were in good standing. H. Nichol is a new Life Member.

ESS GENERAL ACTIVITIES

- The main sources of income were from membership dues with \$715.00 collected and interest income of \$1055.19 during this period.

FINANCE

- The ESS total assets are as follows:

Term Deposits	\$37,000.00 (2@\$10,000; 1@\$12,000; 1@\$5,000)
Chequing	4,626.19
Outstanding deposits	.00
<u>Accrued interest</u>	<u>601.63</u>

Total 42,227.82 (37,588.05 in 2007)

- A start-up loan of \$2,000 to ESC/ESS 2007 JAM was repaid.
- The Society's Registered Charity and Non-Profit Corporations status were renewed.
- The Society's Registered Charity Tax Return will be filed in December.
- The ESC/ESS 2007 profit to ESS was \$2860.12.
- A GIC for \$5,000 was purchased.

Please refer to the enclosed financial statement for further details.

**Financial Statement – Entomological Society of Saskatchewan
01 September 2007 – August 30, 2008**

MAXIMIZER ACCOUNT (ESS)

Receipts:

Memberships	\$ 715.00
Outstanding deposits	.00
Interest (CU Maximizer and Term Deposit)	1055.19
Amateur Encouragement	.00
Misc. (ESC/ESS 2007)	4860.12
Misc. (T shirt sales)	382.00
Misc. (Donation)	<u>100.00</u>

TOTAL **7112.31**

Expenditures:

Newsletter	.00
Minister of Finance	10.00
Brooks Award	500.00
Meeting Expenses	.00
Postage	.00
Bank Charges	45.60
Misc. (ESC/ESS 2007 loan)	2000.00
Misc. (US exchange on cheque)	<u>0.83</u>

TOTAL **2556.43**

Excess of Receipts over Expenditures **\$ 4555.88**

DRAFT - November 28, 2008

APPENDIX C

Entomological Society of Saskatchewan Newsletter Report

The last edition of the ESS Newsletter, volume 28 number 2, was published on November 18 , 2008. The editor wishes to thank Cedric Gillott, Kevin Floate, Lorraine Braun, Ruwandi Andrahennadi, Ron Hooper, Julie Soroka, Martin Erlandson and a host of others for their input. Submissions, suggestions and those interested in assuming the role of editor are welcome.

Respectfully submitted,

Brian Galka
Editor, ESS Newsletter
December 05, 2008

APPENDIX D

Regional Director Report to the ESS

There was an executive council meeting in Ottawa on April 26th, 2008. The governing board meeting of the ESC and the 58th Annual General meeting of the ESC were held in Ottawa at the Crowne Plaza on October 18th and 20th, 2008, respectively. The next meeting of the Governing Board will be held at the Fort Gary Hotel in Winnipeg, Manitoba on October 17, 2008.

Highlights of the meetings:

- A few changes in the by-laws, regarding the dues for students outside Canada, the surcharge for mailed copies of the bulletin and the TCE, the institutional rates and the charges for reprint and PDF (new bylaws in Appendix 1).
- The board has approved the electronic balloting. There will be change in standing rule and bylaw in the future to implement the electronic ballots.
- The ESC will start a contract with NRC-Press to scan the back issues of *The Canadian Entomologist* and the *Memoirs of the Entomological Society of Canada* and will be in contract for 3 years with BioOne for the electronic distribution of *The Canadian Entomologist*.
- A request that all official business be sent in both official languages is being studied by the bilingualism committee.
- The journal editor, Rob Bennett is looking for more paper submission.
- There was 1% decline in the number of the ESC members (497 in 2008 as compared to 504 in 2007).
- The Canadian Federation of Biological Societies will shut down its operations on December 31, 2008. The ESC was invited to a meeting with them and other life sciences based societies, and denied the invitation. The ESC also declined the invitation to join Plant Canada.

2008 Joint Annual meeting

Award recipient:

- Gold medal: Bernard Roitberg
- No nomination for the C. Gordon Hewitt Award in 2008.
- No travel grant awarded this year (out of 3 student application)
- Other awards: names to be announced.

ENTOMOLOGICAL SOCIETY OF CANADA GOVERNING BOARD AND TRUSTEES (2009)

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APPENDIX E

Youth and Amateur Encouragement

Report December 5th, 2008
(April-December 08)

Adult and youth Activities

Cedric Gillott and Chrystel Olivier had the opportunity and the pleasure to talk about bugs to a mixed group composed of 30 seniors from the Sherbrooke Community Centre and 55 grade 5-6 kids from Greystone Heights School, at the Sherbrooke Community Centre in Saskatoon on November 14th, 2008. On July 26, 2008, Chrystel Olivier gave a talk about bugs in Saskatchewan at the Saskatoon Zoo, to a very enthusiastic group of 20 kids with their parents. The talk was organized by the Young Naturalists' Co-ordinator, Greg Fenty. For both talks, pinned and living insects were presented.

Respectfully submitted,
Chrystel Olivier
Chair, Youth and Amateur Encouragement Committee

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