

Entomological Society of Saskatchewan Newsletter

Volume 27 Number 2

December 18, 2006

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The editor wishes to thank Larry Grenkow, Chrystel Olivier and Julie Soroka for their assistance in the preparation of this issue of the ESS Newsletter.

Executive for 2007

Our new executive is as follows:

Committees

President – Julie Soroka
Past President – Art Davis
Vice President – Bryan Sarauer
Treasurer – Dwayne Hegedus
Secretary – Larry Grenkow

Youth and Amateur Encouragement Chair – Chrystel Olivier
Newsletter Editor, Proceedings Editor – Brian Galka
Rep. to the Ent. Soc. of Canada – Chrystel Olivier
A.R. Brooks Award – Phil Curry, Bill Chapco, L. Braun
ESS Membership – Dwayne Hegedus
Teaching of Entomology – Cedric Gillott

Awards

Congratulations to Mr. Remko Verspui who is this year's recipient of the A.R. Brooks Memorial Prize. Remko, who was presented the award by Art Davis, is a Ph.D. candidate in the Department of Biology, University of Saskatchewan. He is working on reception of stimuli during flight by moths of *Manduca sexta*, with supervisor Jack Gray. Congratulations also to Tara Gariepy who won a \$100 award for the best student talk at the December 08 meeting.

Website Update

In the autumn of 2005, University of Saskatchewan entomology graduate student Remko Verspui and recent graduate Tyler Wist took up the invitation to design an exciting new look for the Entomological Society of Saskatchewan web site. Much of the work is now done and the site is ready for you to test.

If you notice any mistakes on the site, or have any suggestions for interesting entomology links to add, reply to Tyler or contact Remko at rev263@mail.usask.ca. For the next while, Remko will continue to work on the site when he can. In the near future visitors will find information on the

website regarding the Joint Meeting of the Entomological Society of Canada and the ESS, being held on September 19-October 3, 2007.

Being a busy graduate student, Remko will not always be able to tend to the ESS web site. Let us know if you are interested and willing to help maintain it.

Visit it at <http://www.sfn.saskatoon.sk.ca/science/ess/index.html>.

Entomological Society of America North Central Branch Meeting in Winnipeg March 25-28, 2007

Greetings all,

I've spoken with a few of you recently to inform you of the upcoming ESA-NCB meeting to be held in Winnipeg from March 25-28, 2007. I'd like to take an opportunity to remind you (and inform those I have not spoken to) of the meeting. I do realize that the meeting isn't too far off and perhaps there are some budgetary constraints in place that may be difficult to overcome. But I thought it best to at least inform you of the meeting given the geographical proximity.

I do also realize that the Saskatchewan falls within the Pacific Branch of the ESA rather than the North Central Branch. In my estimation the discussions at the NCB meetings better fit with the entomological directions in Saskatchewan than do those that dominate the Pacific Branch. To this end I'd invite you to consider attending the meeting in Winnipeg.

I have attached an invitation from the NCB president that was sent out to ESA-NCB members recently and the webpage for the Branch with meeting information can be found here <http://esa.ent.iastate.edu/>. If you have not attended a North Central Branch meeting, they are very enjoyable with a high quality of scientific content. Approximately 12-14 symposia will occur and roughly 300-350 people will attend the meeting. Please do not be too concerned about being a member of the ESA or ESM as we'd happily welcome you into the Manitoba society and the registration fees are not terribly prohibitive regardless.

If you have any questions or would like more information, please feel free to contact me.

Brent Elliott
ESA-NCB 2007 Local Arrangements Chair
Farm Production Extension Entomologist, Crops Branch
Manitoba Agriculture, Food and Rural Initiatives
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belliott@gov.mb.ca



ICE 2008

July 6 - 12, 2008
Durban, South Africa

www.ice2008.org.za



XXIII International Congress of Entomology

Congress News

Edition: March 2006

INVITATION

Hosted by

The Entomological Society of Southern Africa

To be held at the International Convention Centre, Durban, South Africa.

We are delighted that the Council for International Congresses of Entomology has decided to select South Africa as the site for the next ICE. The Entomological Society of Southern Africa will ensure that this congress lives up to the best traditions of previous congresses and that the scientific programme will have a significant impact on the development of the discipline for the benefit of the peoples of the African continent and elsewhere.

Africa is the only continent that has yet to host an International Congress of Entomology. The hosting of such an important event will undoubtedly be of enormous benefit in generating solutions to the many pressing entomological challenges facing the continent, especially those related to human health, food security and the documentation of its hugely diverse but poorly known arthropod fauna.

The Congress will also provide a unique opportunity for African scientists to meet and interact in large numbers with entomologists from across the globe. We urge our colleagues throughout the world to use this opportunity to get a glimpse of the continent's rich and fascinating insect fauna and to enjoy the hospitality of their African friends.

Robin Crewe

President: ICE 2008



Books and Guides

Steve Marshall's book titled: *Insects: Their Natural History and Diversity: With a Photographic Guide to Insects of Eastern North America* is a steal for \$62.70 at Amazon.ca (see website below)
http://www.amazon.ca/exec/obidos/ASIN/1552979008/ref=br_lf_b_3/702-4078789-1128059

There's a fairly good general on-line guide to insects and spiders at:
<http://bugguide.net/node/view/15740> .

Summer Positions in Biological Control at CABI

The CABI facility at Delemont in Switzerland is offering enthusiastic students a unique opportunity to gain experience in biological weed and pest control. The centre is located about 40 km south of Basel. Students should have a background in entomology, pathology, botany and/or ecology. The work involves host-specificity testing of potential biological control agents, insect collections and rearing, studies on life history, impact experiments, and investigations on plant-population biology and plant-insect interactions. The time period is minimum 3 months to a maximum 6 months during the 2007 field season (March –October). The salary is 2000 Swiss francs per month. For more information send your CV directly to:

Dr. Hariet L. Hinz
Phone: +41-32-4214872
Email: h.hinz@cabi.org

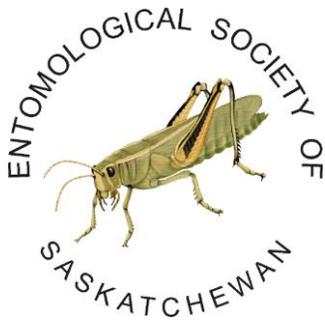
Or check out their webpage at: <http://www.cabi-bioscience.org/ch.asp>.

Early Web-Spinner Found in Amber

..as re-printed from BBC News 14/06/2006

True orb weaving spiders found in amber from 121-115 million years ago are the oldest of their type yet found. The spiral designs have proven an extremely successful strategy for catching prey – evidenced by diversity of orb weavers present today. Two specimens are described in the UK Royal Society journal *Biology Letters*. The fossil spiders were found embedded in amber from Alava in northern Spain. They date to the lower Cretaceous.

The evolutionary success of this design can be seen in the high diversity of true orb weavers, which currently number 2,847 living species. This astonishing diversity also owes much to the way the basic design can be easily modified. “One modification to the web is quite fantastic”, Dr. David Penney of the University of Manchester, UK, told the BBC News website. “Picture a normal, spiral orb web and picture running down from it a ladder-type structure which is also made from sticky silk. This has evolved to trap moths, which have scales that rub off. “When a moth flies into a normal orb web, it’s the scales that stick and the moth tumbles out of it. But with the ladder, the moth tumbles down until all the scales come off and eventually it gets caught.”



Minutes of the Spring Meeting of
the Entomological Society of Saskatchewan
2nd Floor Conference Room
Agriculture Canada Research Station, Saskatoon

13:30, April 7, 2006

PRESENT: Lorraine Braun, Murray Braun, Art Davis, Martin Erlandson, Cedric Gillott, Jack Gray, Larry Grenkow, Lloyd Harris, Scott Hartley, Dwayne Hegedus, Keith Moore, Chrystel Olivier, Bob Randell, Remko Verspui, Tyler Wist.

Mr. Devon Coles opened the meeting with an engaging 40 minute presentation on his work with insects in photography and art. The business meeting followed at 14:20.

1. **Call to order** at 14:20 by President Art Davis.

2. **MOTION:** Erlandson/Harris THAT the agenda is adopted as amended.

3. **MOTION:** Gillott/M. Braun. THAT the minutes of the Fall Meeting, December 2, 2005 be adopted after the motion in item 10.1 is removed, the motion not being relevant to the Fall meeting. **CARRIED.**

4. Business arising from the minutes.

4.1 ESC-ESS 2007 Joint Annual Meeting – Dwayne Hegedus

Dwayne circulated a listing of the JAM committee and sub-committee structure and associated chairpersons and key volunteers. The meeting will be hosted by the Delta Bessborough Hotel from September 30 to October 3. Keith Moore and Wayne Goerzen negotiated a better deal than was arranged for the 1999 JAM in the Radisson Hotel. Tyler Wist volunteered to liaise with the ESC student sub-committee.

4.2 Public Relations Brochures – Art Davis speaking for Owen Olfert

Owen did a lot of groundwork soliciting input and arriving at an initial design for an ESS brochure. The design is still in the formative stage. On the brochure, “Grasslands Nature Park” should be changed to “Grasslands National Park”. The brochure will be especially useful at events like Gardenscape or to distribute to teachers, and should have a contact person listed. At a minimum the business cards should list the ESS website address and the phone number of a contact person in Agriculture Canada and in the Biology Department. If Owen hasn’t already done so, Remko Vespuui and Tyler Wist are able to create a template with Corel Draw, which will enable individuals to print their personalized ESS business cards.

5. Treasurer's Report – Dwayne Hegedus

See Appendix A.

There are 54 members and 6 lifetime members. The sources of revenue are membership dues and interest income. The chequing balance hovers between \$2000 and \$3000.

MOTION: Randell/Wist. THAT the Treasurer's Report be adopted. **CARRIED.**

6. Secretary's Report - Larry Grenkow

Minutes were taken for the executive meeting of January 12, 2006, 1:30 pm, room 307, Agriculture and Agri-Food Canada. Two membership renewal notices have been sent out in 2006. Of the 54 ESS members, 46 can be contacted by email. To these 46 members, on several occasions news items of entomological interest were sent by email. All members received notification of the 2006 spring meeting. A link has been added on the ESS website to the Biological Survey of Canada. Early in the year there has been some communication and exchange of information with Remko Vespui regarding his redesign of the ESS website.

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

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

See appendix B.

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

MOTION: Gillott/Vespui. THAT the proceedings and newsletter be made available on line, in addition to the hard copy distributed to members. **CARRIED.**

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

Since the ESC meeting is not until late April, there is no report.

9. Committee Reports

9.1 Student and Amateur Encouragement – Chrystel Olivier

See Appendix C.

Chrystel thanks to the many enthusiastic volunteers and happily reports that no arm twisting

was required to get help for Gardenscape.

9.2 Archives and Heritage Committee – Cedric Gillott

See Appendix D.

Six weeks ago Cedric examined the Paul Riegert archival material. Several of the boxes are labelled ESS, some are Ag. Canada and all are of an entomological nature. The material dates from the early 1900's. The boxes labelled Ag. Canada may be intended for the archives of the research station, not the ESS. Cedric suggests that the committee show the U. of S. Archives what we have and let them decide what is archival.

MOTION: Gillott/Moore. THAT the heritage committee discuss with the U. of S. Archives department the possibility of depositing the Riegert material with them.

CARRIED.

9.3 ESS Website – Remko Vespui and Tyler Wist

Remko and Tyler presented, demonstrated and discussed their proposed new design for the ESS website. They seek input from the members on the look and feel of the site. Remko offered his opinion that the current arrangement with the Saskatoon Free Net to host the site is serving the ESS well, and there is no benefit from going to the trouble and expense of acquiring a unique and permanent ESS website domain name, from which browsers would be redirected to wherever the site is being hosted.

10. New Business.

10.1 ESS Support For Student Curator Assistance – Dwayne Hegedus and Bob Randell

Dwayne indicated that the ESS account balance is increasing steadily over the years and it should be used to support worthy entomological endeavours. He suggests the ESS set aside a bloc of funds to hire a student to assist Bob Randell in caring for the U. of S. insect collection. Assistance is needed in making an inventory of the collection. As a result of there being no inventory, some material has been lost. Bob suggests the society should be building a check list of the insects of Saskatchewan, and requests each scientist complete a list of insects in their area of expertise.

Much discussion followed on what kind of projects would fall within the jurisdiction of support by the ESS, what kind of projects could be taken on or be of interest to a student, what kinds of student assistance Bob envisions and is prepared to supervise, and how much the funding will be. Funding of \$1000 was put forth as a sum around which to organise discussion.

MOTION: Randell/L. Braun. THAT the ESS executive will forward to Bob a list of acceptable duties that the ESS will support, and they will solicit from Bob a proposal for funding from the ESS to finance assistance.

CARRIED

The meeting adjourned at 4:40 pm.
Minutes recorded by Larry Grenkow, Secretary

APPENDIX A

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN MEMBERSHIP AND INTERIM FINANCIAL REPORT

01 September 2005 – 31 March 2006

MEMBERSHIP

- To this point in 2005-2006 the ESS has 54 members (45 full and 9 student – 6 Life Members) of which 44 are in good standing. The society has a new life member (Douglas Baldwin).

ESS GENERAL ACTIVITIES

- The main sources of income were from membership dues with \$865.00 collected and interest income of \$1101.39 during this period.

FINANCE

- The ESS total assets are as follows:

Term Deposits	\$32,000.00 (2 @ \$10,000 and 1 @ \$12,000)
Accrued Interest	210.71
Chequing	3,482.37
Outstanding deposits	<u>185.00</u>
Total	35,878.08

- 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 2005 – 31 March 2006

MAXIMIZER ACCOUNT (ESS)

Receipts:	
Memberships	\$ 680.00
Outstanding deposits	185.00
Interest (CU Maximizer and Term Deposit)	<u>1101.39</u>
TOTAL	1,966.39

Expenditures:

Printing	10.25
Minister of Finance	10.00
Brooks Award	500.00
Meeting Expenses	149.50
Postage	5.69
Bank Charges	26.60
Misc.	<u>0</u>
TOTAL	702.04
Excess of Receipts over Expenditures	\$ 1,264.35

APPENDIX B

Entomological Society of Saskatchewan Newsletter Report

The first edition of the Newsletter of the Entomological Society of Saskatchewan for this calendar year was published on February 28, 2006. This edition was circulated to society members on March 6, along with the 53rd Proceedings of the Entomological Society of Saskatchewan.

The editor wishes to thank Tyler Wist, Cedric Gillott, Larry Grenkow, Keith Moore and Murray Braun for their assistance in the preparation of this issue. Comments, suggestions and submissions with regards to issues are always welcome.

Entomological Society of Saskatchewan Proceedings Report

The 53rd edition of the Proceedings of the Entomological Society of Saskatchewan, covering events and minutes from 2005, was published in February 2006, and circulated to members on March 6, 2006. A copy of the 53rd edition of the Proceedings has been forwarded to the Saskatchewan Archives. In return, the Society was acknowledged for its contribution in the form of a letter from the Saskatchewan Archives Board.

The editor wishes to thank Larry Grenkow and Cedric Gillott for their assistance in the preparation of this edition of the Proceedings. Suggestions regarding the format and content of the Proceedings are always welcome.

Respectfully submitted,

Brian Galka

Editor, Newsletter of the Entomological Society of Saskatchewan

April 07, 2006-07-28

APPENDIX C

Youth and Amateur Encouragement

Report April 7th, 2006

Adult Activities

GardenScape 2006 hosted a booth for the ESS on Friday March 31st, Saturday April 1st and Sunday April 2nd. 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 to Cedric Gillott for adding cockroaches and Manduka moth colonies to the display. Thank you to Brian Galka for setting up the booth. Thank you to Cedric Gillott, Felicitas Katepa-Mupwonda, Larry Grenkow, Carl Lynn, Owen Olfert, Tina Bundrock, Art Davies, John Durkin, Elena Beynon, Abdus and Laila Shakir, Nancy Tyler, Ruwandi Andrahennadi and Dana Nordin, for staffing the booth, showing the displays and answering a lot of questions.

On March 11, 2006, Cedric Gillott gave a talk about 'Insects in your yard and garden' to a community group (CHEP) in Seedy.

Youth Activities

Brian Galka took the pinned insect display and the arachnid display to Territorial Drive Alliance Church in January 2006. On April 6th 2006, Brian also did a presentation to grade 3-4 students at the Buena Vista school.

Chrystel Olivier gave two presentations about insect biology and behaviors to grade 9-12 students at the Ecole Canadienne francaise on January 30, 2006 and three presentations to grade 1-12 students at the Lucky Lake School on February 9, 2006. Chrystel did also a presentation at the Rotary club of Meewasin entitled "what is an insect?" in January 2006. The Youth and Amateur Encouragement committee provided Jeffrey Balone (Saskatoon Biologist pest management) with living and pinned insects display, as well as a Power Point file on insect, for kid's education at St Frances school in March 2006.

The Saskatoon Prairieland Exhibition Corp. hosted this year's Gardenscape "Little Green Thumbs School Tour Program" on Thursday, April 30th and Friday April 31st, with the theme "Good Bugs, Bad Bugs". Volunteers from Agriculture and Agri-Food Canada and members of the ESS educated 975 grade 3 students and their teachers on the impact that insects have on our lives. Thank you to Alison Patton for preparing the living insects displays, and to Brian Galka, Dwayne Hegedus, Owen Olfert, Keith Moore, Melissa Strom, Carl Lynn, Margie Gruber and Stephanie Ethier for giving the presentations and answering a lot of "bug" questions.

The ESC Science Policy and Education Committee has approved our request for public education funding in principle. The treasurer will confirm if the Youth and Amateur Encouragement committee is eligible for 3 years funding and then issue a cheque. The ESC committee was very impressed with the quality and quantity of the ESS's public education activities considering the relatively small size of the society. (email received from Terry Shore, ESC, on April 6th, 2006).

Respectfully submitted,

Chrystel Olivier

APPENDIX D

Inventory of Heritage Entomological Material

A) Riegert Collection – Arranged by category

Federal Government

Agriculture Canada centennial publications [1886-1986] for Ottawa [Systematics], Summerland, Lacombe, Regina)
Annual grasshopper forecasts
Belleville versus Simon Fraser U. controversy (correspondence)
Canada Department of Agriculture, Entomology Division Newsletter, 1920-42
Canada Department of Agriculture, Research Branch Newsletter 1930-38
Canada Department of Agriculture, Research Branch Newsletter, 1959-69 (end of publication)
Canada Department of Agriculture, Science Service, Entomology Newsletters, 1952-69 (Vol's 30-47) (incl. numerous biographies)
Dominion Entomology Laboratory, Reports
Grasshopper and wheat midge surveys
Grasshopper forecast maps for AB, SK and MB (from 1960s), plus distrib./density maps for *Melanoplus bivittatus*, *M. sanguinipes* and *Camnula pellucida*
International Great Plains Conference of Entomology Reports (1936, 38, 46, 48, 50, 52-65), plus correspondence re these meetings from 1920s and 30s
Research Reports, Saskatoon Research Centre, 1957-66
Typescript reports and grasshopper forecasts

Provincial Government

Saskatchewan Department of Agriculture, Annual Reports
Saskatchewan Department of Agriculture, Annual Reports 1920s and 30s

Biographical

Cassette tapes (c. 100) of interviews with entomologists (incl. those transcribed in above entry)
Entomology Series #23: Entomologists of Federal Labs in W. Canada 1883-1980
ESC Gold Medal biographies
Personal data on entomologists
Transcripts (>20) of interviews with entomologists
Transcripts (c. 40) of interviews with entomologists
Western Provincial Entomologists (books)
Willing, T.N. biography typescript

Books/Articles

Anstey, T.H. (1986) 'One Hundred Harvests' (celebrating Agric. Canada's Centenary)
Correspondence re Memoir #15 (History of Entomology in Western Canada?);

Ellis, R.E. (1983) 'Western Equine Encephalitis' (prepared by Prairie Entomological Research Consultants)
Gibson, A. (1951) 'Entomology in Canada 1920-1942' (photocopy [of galleys?]).
Riegert, P.W. (1968) 'History of Grasshopper Abundance Surveys and Forecasts of Outbreaks in Saskatchewan', Mem. ESC #52
Riegert, P.W. 'From Arsenic to DDT' (research notes and correspondence)
Riegert, P.W. Entomology Series #15-19 (bound), also several unbound/unnumbered proofs
Riegert, P.W., Entomology Series #1-20, as proofs(?) (i.e., unbound)
Riegert, P.W., Locusts and Grasshoppers – A History to 1940
Riegert, P.W., Locusts and Grasshoppers – Chemical Control 1940-1990

Entomological Society of Canada

ESC Hewitt and Gold Medal Awardees, 1985-87

Provincial Entomological Societies

Historical summaries of Canadian (national and regional) Entomological Societies (incl. their publications, officers, etc.)

Proceedings of the ESBC 1913-65 (incomplete)

Photographs/slides

Large photo album of people and meetings

Photo album with material from JAMs at Banff (1990), Montreal (91) and Saskatoon (92)

Photos of persons and buildings

Slide boxes (2) with 2x2 transparencies of insects and views (esp. CHBF Station)

Slides (2x2)

Slides (2x2) in storage book

Slides (2x2) of Matador area (June 1969)

Slides (2x2) various insects, scenes, people – unidentified

Other

Early newspaper cuttings

Fruit Growers Association Reports, 1895-1899

Pamphlets

Reprints

Reprints from Lethbridge Research Station

Reprints of Roelofs

Reprints of some Riegert papers

Research publications (mostly older)

Tape cassettes, contents unknown (labeled 'Introduction 1 to 5')

B) Entomological Society of Saskatchewan

Box A

ESS Financial correspondence/memberships 1995-98, incl. video matters

Box B

ESS secretary's files 1996-2002

Box C

ESS secretary's files 1977-79, 1986-1994

Ring binders

ESS General and Video 1999-2001

Box 28

Proceedings ESS 1962-87, wrapped (complete set?)

Proceedings ESS 1962-92 with some years missing

Box 29

ESS correspondence 1952-65, plus minutes of some meetings

Gillott's Office (186 Biology)

ESS minute books (3 volumes): 1952-62, 63-67, 68-77

Plus: Criddle-related material, re Homestead Restoration Project

C) AAFC-SRC Boxes with Entomological Material

Box 47

Grasshopper damage photos

Research reports on grasshoppers

Box 51

Grasshopper damage photos

Technical reports of the Saskatoon Lab from 1930s

Box 52

Agriculture Canada pamphlets

Editorial circular 1958

Grasshopper control – photos from 1930s and 40s

Journal publications

Non-entomological material

Box 54

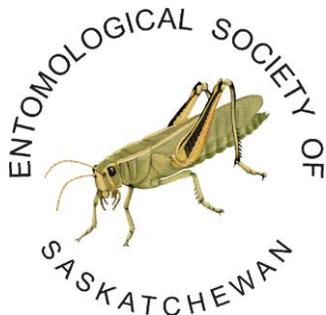
Dominion Experimental Station correspondence and minutes, 1948

International Great Plains Conference on Entomology, Proceedings 1934-58

Library manual, 1976

Non-entomological reports (soils and cereals)

Pamphlets



Minutes of the Fall Meeting of the Entomological Society of Saskatchewan

Agriculture Canada Research Station, Saskatoon
2nd Floor Conference Room
13:00, December 8, 2006

PRESENT: Harvey Anderson, Lorraine Braun, Murray Braun, Phil Curry, Art Davis, John Doane, Martin Erlandson, Tara Gariepy, Cedric Gillott, Larry Grenkow, Scott Hartley, Dwayne Hegedus, Chrystel Olivier, Diether Peschken, Keith Roney, Bryan Sarauer, Julie Soroka, Umut Toprak, Remko Verspui, Tyler Wist.

The fall meeting opened with a scientific program of well delivered presentations by entomology graduate students. The students, in the order that they appeared, were Tara Gariepy, Remko Verspui, Wade Caswell, and Umut Toprak. See Appendix A for a listing of their topics. The business meeting followed at 15:00.

Call to order at 15:00 by President Art Davis.

1. Introductions were made, new members were welcomed. Tara Gariepy received a certificate and a cash award of \$100 for the best student talk. Thank you to Julie Soroka, Phil Curry, and Bryan Sarauer who kindly agreed to be judges. Remko Verspui was winner of the Brooks Award, presented by Art Davis.

2. MOTION: Wist/Erlandson. THAT the proposed agenda be adopted. **CARRIED.**

3. MOTION: Grenkow/Olivier. THAT the minutes of the Spring Meeting, April 7, 2006, be adopted. **CARRIED.**

4. Business Arising From the Minutes.

4.1 ESS Support For Student Curator Assistance

In response to a query from Scott Hartley, Art Davis replied that there is no update from where the discussion ended at the spring meeting. Noting that the Dept. of Entomology insect collection does not seem to be a priority of the section head, Art offered to raise its profile with him.

MOTION: Hegedus/Davis. THAT the executive strike a committee to develop in time for the spring meeting a proposal for ESS support for student curator assistance. **CARRIED.**

5. Treasurer's Report - Dwayne Hegedus

See Appendix B.

Membership is stable. Interest income is a healthy \$1220.29. Expenditures this year are down significantly due to Brian Galka undertaking in-house printing of the newsletter, and the use of email. Much of the large balance in the chequing account will be used for seed money to run the joint ESC-ESS meeting in 2007.

MOTION: Hegedus/L. Braun. THAT the ESS accept the Treasurer's Report. **CARRIED.**

Diether Peschken offered that with such a healthy income the ESS could set aside more money for awards. Dwayne suggested a travel grant would be worthwhile. Lorraine noted that money could go toward two Brooks awards, one for a Masters and one for a PhD student.

MOTION: Hartley/Gillott. THAT the awards committee put together proposals for spending more money on student awards, to be ready for the spring meeting. **CARRIED.**

6. Secretary's Report - L. Grenkow

Minutes were taken for the ESS spring general meeting of April 7, 2006. All members have been notified of the 2006 fall meeting. Two reminders have been sent this fall for renewal of membership for 2007. Of the 55 current ESS members, 44 can be contacted by email. Throughout the year several notices of entomological interest were circulated through the secretary to the membership by email. Membership contact information has been provided to various executive as needed. In June the information on the ESS Brooks Award was verified for the University of Saskatchewan Graduate Awards Data Base. There has been communication and exchange of information between myself and Remko Verspui regarding his redesign of the ESS website.

The secretary has maintained the ESS website since its original installation. While Remko completes the redesign of the website, he has taken on maintenance the site when he can find time from his graduate studies. Anyone else interested in maintenance of the site should contact Remko or myself.

Lastly, the door will be opening to anyone interested in the duties of secretary of the ESS. 2007 will be my last year as secretary.

MOTION: Grenkow/Sarauer. THAT the Secretary's Report be adopted. **CARRIED**

7. Newsletter and Proceedings Report – Art Davis and Larry Grenkow for Brian Galka.

See Appendix C.

MOTION: Wist/Gillott. THAT the report by the newsletter and proceedings editor report be accepted. **CARRIED.**

8. Regional Director's Report. – Lorraine Braun

See Appendix D.

MOTION: L. Braun/Curry. THAT the Regional Director's Report be accepted. **CARRIED.**

9. Committee Reports.

9.1 Student and Amateur Encouragement – Art Davis for Chrystel Olivier

See Appendix E.

9.2 Microscope – Harvey Anderson

Harvey has been user and caretaker of the microscope, light source and fiber optic cable since September 2005. He uses them at his home from September to March to process several hundred samples, and stores the equipment at his home the remainder of the year. He has insurance on the equipment and can make them available to anyone who requests them. For the near future Harvey will continue to have need of the microscope.

9.3 Heritage Committee – Cedric Gillott

See Appendix F.

9.4 A.R. Brooks Award – Art Davis

See Appendix G.

9.5 Nominations – Julie Soroka

The Nominations Committee is to consist of three members in good standing. It “shall nominate a 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 Julie Soroka becomes President following the end of Art Davis's tenure. Bryan Sarauer was nominated for and agreed to stand for Vice-President. With Lorraine Braun stepping down after her mandated three year term as regional rep to the ESC, Chrystel Olivier agreed to being nominated to regional rep. Wayne Goerzen and Owen Olfert were nominated to be auditors of the ESS accounts. Dwayne Hegedus agreed to continue for another year as treasurer, as did Larry Grenkow as secretary.

MOTION: Curry / Peschken. THAT the slate of nominees for ESS executive and all committee reports be accepted. **CARRIED.**

10. New Business.

10.1 Joint Meeting, ESC-ESS – Dwayne Hegedus.

The organization of the meeting is progressing well. The organizing committee structure was drawn up last spring. Lorraine Braun has developed a sound, break-even budget. A science program theme has been decided on, which is: *Insects: Microscale Subjects For Megascala Research*. The traditional day to day format of the meeting is changed somewhat this year. Some of the meeting will be pushed to Sunday morning and Sunday afternoon, to accommodate an excursion to Wanaskewin on Monday afternoon. Julie and Lorraine promoted the meeting at this year's joint meeting in Montreal.

10.2 ESS Website – Remko Verspui and Tyler Wist

Remko called up the new website, which when it appeared on the screen was met with much approval from the audience. Scott Hartley offered a suggestion that a button be included to link to ESS publications, which would include the newsletter, proceedings and videos. Larry noted that the Saskatoon Free Net, which hosts the website for free, accepts donations. There was agreement that the ESS should make a donation to SFN, which might help to garner adequate memory space for the ESS to post many more images. Remko requested more information from the joint meeting organizing committee to put on the website.

10.3 Installation of New Executive

Julie Soroka took over the reigns of President from outgoing Art Davis. Julie thanked Art for his dedication over the past year. She thanked Dwayne Hegedus for his hard work in organizing the Joint Annual Meeting of 2007 which promises to make it a success.

10.4 Spring Meeting – Julie Soroka

The spring meeting is traditionally held during the first or second week of April. The date will be decided by the chair.

The meeting adjourned at 4:30 pm.

Minutes recorded by Larry Grenkow, Secretary

APPENDIX A

SCIENTIFIC PROGRAMME OF PRESENTATIONS BY GRADUATE STUDENTS

Pests, Parasitoids, and PCR: A Novel Approach to Evaluate the Ecological Host Range of Exotic Biological Control Agents

by Tara Gariepy, U. Kuhlmann, C. Gillott, and M. Erlandson

Responses to Looming Stimuli in *Manduca sexta*

by Remko Verspui and J.R. Gray

Insect Pollination of Purple Loosestrife (*Lythrum salicaria*) in Saskatchewan

by Wade Caswell and A.R. Davis

A New Model of Lepidopteran Peritrophic Matrix

by Umut Toprak, M. Erlandson, C. Gillott and D. Hegedus

APPENDIX B

ENTOMOLOGICAL SOCIETY OF SASKATCHEWAN MEMBERSHIP AND INTERIM FINANCIAL REPORT

01 September 2005 – August 30, 2006

MEMBERSHIP

- In 2005-2006 the ESS has 55 members (46 full and 9 student – 7 Life Members) of which 47 are in good standing.

ESS GENERAL ACTIVITIES

- The main sources of income were from membership dues with \$1000.00 collected and interest income of \$1220.29 during this period.

FINANCE

- The ESS total assets are as follows:

Term Deposits	\$32,000.00 (2 @ \$10,000 and 1 @ \$12,000)
Chequing	4,327.34
Outstanding deposits	.00
Accrued interest	<u>468.77</u>
Total	36,796.11 (35,137.27 in 2005)

- The Society's Registered Charity and Non-Profit Corporations status were renewed.
- The Society's Registered Charity Tax Return will be filed in December.

Please refer to the enclosed financial statement for further details.

Financial Statement – Entomological Society of Saskatchewan
01 September 2005 – August 30, 2006

MAXIMIZER ACCOUNT (ESS)

Receipts:

Memberships	\$ 1000.00
Outstanding deposits	.00
Interest (CU Maximizer and Term Deposit)	1220.29
Amateur Encouragement	600.00
Donation	<u>.00</u>

TOTAL 2,820.29

Expenditures:

Newsletter	10.25
Minister of Finance	10.00
Brooks Award	500.00
Meeting Expenses	184.00
Postage	11.12
Bank Charges	45.60
Misc (Insect Specimens)	<u>.00</u>

TOTAL 761.05

Excess of Receipts over Expenditures \$ **2059.24**

APPENDIX C

Entomological Society of Saskatchewan Newsletter Report

The first edition of the Newsletter of the Entomological Society of Saskatchewan for this calendar year was published on February 28, 2006. This edition was circulated to society members on March 6 along with the 53rd Proceedings of the Entomological Society of Saskatchewan. Comments, suggestions and submissions with regards to issues are always welcome.

Entomological Society of Saskatchewan Proceedings Report

The 53rd edition of the Proceedings of the Entomological Society of Saskatchewan was published in February 2006 and circulated to members on March 6, 2006. A copy of the 53rd edition of the Proceedings has been forwarded to the Saskatchewan Archives.

The editor wishes to thank Larry Grenkow and Cedric Gillott for their assistance in the preparation of this edition of the Proceedings. Suggestions regarding the format and content of the Proceedings are always welcome.

It is anticipated that the 54th edition of the Proceedings of the Entomological Society of Saskatchewan will be published in February or March 2007.

Respectfully submitted,

Brian Galka

Editor, Newsletter and Proceedings of the Entomological Society of Saskatchewan
December 08, 2006

APPENDIX D

Regional Director Report to the ESS

The 2006 Joint Annual Meeting of the Entomological Society of Canada and the Société d'entomologie du Québec was held at the Holiday Inn Midtown Hotel Montreal, QC) from 18-22 November 2006. The theme of the meeting was "Diversité"

Summary of the ESC Conference

1. Awards

2006 **Criddle Award** Winner - André Beaudoin
2006 **C. Gordon Hewitt Award** Winner - Dr. Chris Buddle
2006 **Gold Medal Award** Winner - Dr. Richard Ring.

2. President's Prize

72 oral presentations, 38 poster presentations
Winners will be posted in the Bulletin of the ESC.

3. Contributed Papers

42 oral presentations, 37 poster presentations.

4. Symposia - Six Symposia with a total of 50 presentations

Summary of the ESC Board Meeting

The ESC Board Meeting took place at the Holiday Inn Midtown Hotel on 18 November 2006. Executive members, Committee Chairs and Regional Directors presented reports, which will be included in the Minutes of the Governing Board Meeting to be posted in The Bulletin. A brief summary of items of importance include the following:

1. Ad hoc Committee on Information Technology

M. Cusson gave an update on progress on the electronic review process and redesign of the web site. The electronic review process (cost of about 750 k per year) will be tested extensively during December and January before going online permanently. The committee recommends that instructions to authors be available only on the internet in the future so that changes can be quickly updated.

2. Publications

1) Robb Bennett will replace Richard Ring as Editor of The Canadian Entomologist in January 2007. Vasily Grebennikov was recommended as a replacement for Don LeFontaine (Divisional Editor, Section 2). The Canadian Entomologist's ranking rose in 2006 and it has a relatively high number of citations.

2) Kevin Floate will replace Paul Fields as Bulletin Editor in January 2007.

3) Elections

Paul Fields was elected as Second Vice-President. Chris Buddle was elected as Director at Large.

4) Scheduling the Annual Meeting

The Committee recommended that the Annual Meeting of the ESC be held after the end of September and before November 10 each year to avoid highly variable lengths for terms of office and inclement weather later in the year. The Annual Meeting Committee will review this recommendation with the regional societies and report back to the Board.

5) ESC Membership

As of October 24, 2006, there were 547 members, almost a 10% increase over that in 2005.

6) Students Meet the Board Reception

Discussions with Student Committee co-chair Greg Smith along with discussions with previous chair Tonya Mousseau have led T. Shore to believe that the Students meet the Board Reception should be terminated and replaced with a Students Reception.

7) Annual Meetings Committee

The Chair will maintain contact with hosting societies on a regular basis to review meeting dates, registration fees, budgets and assist in planning annual meetings.

8) President's Prize Competition

R. Lamb suggested eliminating the President's Prize competition because finding judges is difficult given the numbers of papers/posters and the money would be better spent helping students get to annual meetings. The Student Affairs Committee, Annual Meeting Committee and **Regional Representatives** were asked to review the President's Prize competition and formulate a policy for providing feedback on paper/poster presentations by students.

9) Future ESC JAMs:

2007: Delta Bessborough, September 29 - October 3 in Saskatoon;

2008: Crown Plaza, October 18-22 in Ottawa;

2009: Manitoba, dates and venue to be announced.

Respectfully submitted

Lorraine Braun
Regional Director, 2003-2006

APPENDIX E

Youth and Amateur Encouragement

Adult Activities

The butterfly collection was “leased” for a few weeks and \$200, for a movie production entitled: “Intimate Stranger”.

Youth Activities

On August 20th 2006, Brian Galka took a group of campers at Pike Lake Provincial Park on a Nature Walk. They found several species of grasshoppers and butterflies.

Chrystel Olivier gave one presentation about “impressive bugs” to grade 1-3 students at the Montessori school on May 31st, 2006.

The ESC Science Policy and Education Committee approved our request for public education funding and a cheque of \$600 was received in May 2006.

Respectfully submitted,

Chrystel Olivier

APPENDIX F

Archives and Heritage Committee Report, December 2006

Martin Erlandson and I met with the University of Saskatchewan Archivist, Tim Hutchinson, on Friday, 1 December, 2006. We showed him the boxes of materials (mostly the ‘Riegert Collection’) in storage in the sub-basement of AAFC-SRC and supplied him with the summary lists of the boxes’ contents. He expressed strong interest in placing these materials in the University Archives, but noted that at the moment space is at a premium. University Archives is expecting to receive additional space for its collection early in 2007, and Mr. Hutchinson will contact us when this occurs to arrange for pick-up of the ESS material.

Respectfully submitted,

Cedric Gillott

APPENDIX G

A.R. Brooks Memorial Prize in Entomology

This year there were two applications received for consideration of the A.R. Brooks Memorial Prize in Entomology. I am grateful to Dr. Phil Curry (Immediate Past President, E.S.S.), Dr. Bill Chapco (University of Regina) and Dr. Lorraine Braun (AAFC, Saskatoon), for agreeing to form this year's Selection Committee.

This year's recipient of the A.R. Brooks Memorial Prize is Mr. Remko Verspui, a Ph.D. candidate in the Department of Biology, University of Saskatchewan. Remko is working on reception of stimuli during flight by moths of *Manduca sexta*, and his research is supervised by Dr. Jack Gray.

Respectfully submitted,

Dr. Art Davis, University of Saskatchewan