

The Entomological Society of Manitoba *Newsletter*



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About the ESM Newsletter

The Entomological Society of Manitoba Newsletter is published three times per year. It is a forum whereby information can be disseminated to Society members. As such, all members are encouraged to contribute often. The Newsletter is interested in opinions, short articles, news of research projects, meeting announcements, workshops, courses and other events, requests for materials or information, news of personnel or visiting scientists, literature reviews or announcements and anything that may be of interest to ESM members.

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Editors' Comments

As we prepare this issue, it's almost mid June, and it feels like summer is really here. The cankerworms (and several other species of defoliators!) are pretty much finished, and after a wonderfully bite-free spring, the mosquitoes



are beginning to emerge. Manitoba is certainly entomologically endowed. This issue has lots of information on upcoming events for the entomologically interested. There are notices for **Prairie Day** at the Tall Grass Prairie Preserve, and for the **Grand Reopening of Norman Criddle's First Entomology Laboratory** at Aweme, both in mid August. Then there are updates on Manitoba meetings for entomologists, and there are some changes this year, so check out the details carefully, and mark them on your calendars. The Society's 2006/2007 year will be a particularly stimulating one. The **ESM Annual Meeting** in October is described, and the call for papers included in this mailing. Then in March, the ESM will meet jointly with the North-Central Branch of the Entomological Society of America. **The ESM/ESA-NCB Meeting** should be four days of entomological excitement.

This issue also contains two items for the insect collector in all of us. There's the last instalment of Bob Wrigley's **So many bugs.....so little time**; and there's a report from Rob Roughley about **Donations to the J.B. Wallis Museum**. You'll also find the **Report of the Social Committee** on recent activities, and short biographies of two **New Members**. In addition, thanks to Marj Smith, you'll find the **Solution to the Crossword Puzzle** in the last issue, and a **New Crossword Puzzle**, which may be even more challenging.

Of course there are also all the usual items too: the **President's Report**, the list of **Meeting Announcements**, and the list of our **Executive & Committee Chairs**. Enjoy the Newsletter, and have a great summer.

Pat MacKay & Mahmood Iranpour

President's Report – Rhéal Lafrenière

For my second president's report I can honestly say that I am not finding myself quite so privileged. Although I still consider it a great honour to be president of this illustrious society, I find myself a little disappointed with the membership turnout to some of the ESM functions. I encourage you to read the social committee report on the recent "New Member Social". For several years this committee has struggled to get people to come out to the social. Perhaps it is time to find another way of introducing our new members into the society (e.g. Newsletter exposé or reduced registration fees for AGM). Unless there is an outcry of support from the members to continue with the new member social, this event will likely be cancelled next year and perhaps cancelled indefinitely.



On a more positive note, Brent Elliott and Paul Fields have been working out the details for hosting the Entomological Society of America's North Central Branch meeting in Winnipeg March 25 – 28, 2007. A lot of hard work has gone into this already and it is really starting to look like it is going to be a fantastic meeting. Good job guys!

Brent Elliott is also the chair of the Scientific Program committee for our ESM Annual meeting. Plans for this meeting are also well underway: the date has been selected (October 14th), keynote speakers have accepted (Hugh Philip, Scott Meyers, and Scott Hartley) and the social gathering has been booked (Chez Pat & Bob). The theme has also been finalized, "Extension Entomology in Western Canada". Looks like another great meeting!

Still on the topic of Meetings, the ESM has invited the ESC to hold the Joint Annual Meeting (JAM) in Winnipeg in 2009. Guess who has volunteered as the local arrangement coordinator...? Give up....? That is right - Brent Elliott!!! Brent is fast becoming the ESM Meeting GURU!

On a final note, the business meeting of the ESM Annual meeting will not be held in conjunction with the symposia on October 14th but rather a special luncheon will be organized at a later date. Details for this meeting will be provided in the next issue of the newsletter.

Until next time – Have a great summer!

AN UPDATE ON MANITOBA MEETINGS

Brent Elliott, MAFRI, belliot@gov.mb.ca

The 62nd Annual Meeting of the Entomological Society of Manitoba

Saturday, 14 October 2006

Because of the Joint Meeting of the Entomological Society of Manitoba and the North Central Branch of the Entomological Society of America in Winnipeg in March (see the following Newsletter item for details of that meeting!), the ESM Scientific Program Committee has decided to change the format of this year's fall meeting of the ESM. The details of the October meeting are given below, and can also be found with the call for papers which has been included with this issue of the Newsletter

Meeting Theme: Extension Entomology in Western Canada:

Program Outline:

Morning

Opening Ceremonies

Presented Papers including President's Prize competition

Poster session

Afternoon

Symposium Speakers: Hugh Philip, BCMAF

Scott Meers, AAFRD

Scott Hartley, SAF

Evening

Meet the speakers reception at the MacKay/Lambs

Business Meeting TBA (future date)

Joint Meeting of the Entomological Society of Manitoba and the Entomological Society of America - North Central Branch

25-28 March 2007, Delta Hotel, Winnipeg

For the first time in its history, the Entomological Society of America's North Central Branch will be meeting outside of the United States. As Manitoba falls within the North Central Branch of the ESA, Winnipeg was selected as a host city for the 2007 meeting of the ESA-NCB. The ESM is partnering with the ESA-NCB to bring this joint meeting to Winnipeg. For those not familiar with an ESA Branch Meeting, they are roughly the same size as an Entomological Society of Canada annual meeting with somewhere between 250-400 attendees at the meeting with a strong delegation of students present. The Scientific Program Committee is already preparing for the meeting and working to have a diverse and exciting entomological program. While the meeting is often thought of as a corn meeting, that really sells the diversity of topics present within the Branch short. Featured symposia in planning include Emerald Ash Borer, Apiculture and a Canadian Agriculture focus. Yes, there will likely be symposia topics on European Corn Borer and Corn Rootworm, but with over twenty million acres of corn grown

within the geographical area of the Branch, it's an important subject area. But those topic areas are a minority of the approximately 12 symposia that will be held in addition to submitted papers, student poster and paper competitions, the Linnaean Games and the Photo Salon. We hope to have a strong representation of ESM members attending this meeting. More information will follow in the next newsletter. If you have any questions, please feel free to contact me at Belliott@gov.mb.ca as I am the local arrangement chair.

Donations to the J.B.Wallis Museum, Department of Entomology, U of M
Rob Roughley, Curator of the J.B. Wallis Museum, University of Manitoba

For some time now the JBWM has had in place a mechanism for donation of selected groups of arthropod specimens (insects, spiders, mites and ticks). This mechanism allows us to build and extend the collection of the JBWM. The process is that a collection of specimens, which is the sole property of the donor, on being donated to the JBWM, is evaluated against a set of standards by the curator (Rob Roughley) and co-curator (Terry Galloway). The University of Manitoba then issues a charitable donation receipt on behalf of the JBWM. This can then be applied against personal income tax. In regard to donations, 2005 was a banner year as we had four major donations!



Anita Stjernberg in the JBWM spider collection with her M.Sc. supervisor and the curator of the museum, Rob Roughley. Anita is working on the impact of cattle grazing on the spiders of the Yellowguill Prairie in Western Manitoba

The largest donation in terms of specimens and value was that of Cassie Williams (formerly Aitchison-Benell).

Cassie is a graduate of both the Departments of Zoology and Entomology

of the University of Manitoba. She donated almost 3000 specimens of spiders of which almost all were identified to species; some of these were quite well prepared and identified by means of dissection of the male palpomere. This forms a very important addition to our collection of spiders from Manitoba. Spiders have been used as the subject in one recently completed M.Sc. project and they are a part on an ongoing M.Sc. thesis project within the Department of Entomology. Spiders are becoming an increasingly important group used in a broad spectrum of environmental monitoring projects, so this addition of reliably identified material is of great importance to the JBWM for ongoing studies which use spiders. A special thank-you to Cassie!

Todd Lawton, an amateur collector, donated an exceptional collection of tiger beetles from across North America. These “demons of the dust” are prized by collectors for their interesting life cycles, brilliant colours and their variation. Bob Wrigley (Curator of the City of Winnipeg Zoo) donated a very interesting set of beetles principally from Manitoba but with an interesting assortment of big, showy, exotic beetles with a high degree of “wowie” factor. Rob Roughley spent many evenings evaluating these beetle collections and enjoyed every minute of it.

Last but by no means least is a donation of moths by Richard Westwood. Richard is a Professor of Biology at the University of Winnipeg. He donated a remarkable set of about 700 specimens from northwestern Ontario and eastern Manitoba. This donation greatly extends our representation of the moths of Manitoba and it is a very welcome addition to the JBWM.

If other collectors would like additional information, please contact Terry Galloway or Rob Roughley.

SO MANY BUGS -- SO LITTLE TIME

Dr. Bob Wrigley (Curator, Assiniboine Park Zoo), with assistance from Shirley Preusentanz (Teacher)

Part 3 of 3 parts: Other Insects

Editors’ Note: For **Part 1: Tiger Beetles**, see the fall issue of the ESM Newsletter; for **Part 2: Other Beetles**, see the winter issue of the ESM Newsletter.

Each year I and one or two friends escape the perimeter of Winnipeg and travel to other locations in North or Central America to study and collect insects and other arthropods -- actually anything that is unfortunate enough to cross our paths, day or night. This past July, only one friend (Shirley Preusentanz) could make it, so we set off for 16 days in July in a compact rental car for the great mid-western states -- actually nine, from the Dakotas to Oklahoma, and Arkansas to Minnesota.....

Opportunistically we also collected other insects, such as butterflies (sulphurs, viceroy, monarch, red admiral, satyrs, wood nymphs, common buckeye, painted lady, blues, swallowtails and skippers). Sphinx moths, such as the poplar and white-lined, were surprisingly uncommon. Shirley captured a number of caterpillars to raise to adults. Bees and wasps were numerous, such as the 25mm hairy, reddish-orange cow killer (the velvet ant, *Dasymutilla occidentalis*), cicada killer (*Sphecius speciosus*) and pepsis wasp (*Pepsis formosa*). All three big wasps can deliver quite a sting if handled carelessly. Two species (one black, the other yellow) of large carpenter bees (*Xylocopa*) were taken as they buzzed past our heads at high speed. Flying around the tops of wild flowers were the red-banded mydas flies, which fortunately for us were slower than the carpenter bees! A number of walking sticks, some copulating, were swept up in our nets. Dragonflies and damselflies were truly breathtaking in both their acrobatics and colors. One shady river bank yielded a dozen ebony-winged damselflies with iridescent green bodies (45mm) -- the most beautiful damselfly I have ever seen. We collected samples of each group and placed them in glassine envelopes, realizing that most of their brilliant colors would soon fade. I

wondered how many species here were also found in Manitoba (and illustrated in Dr. Jim Duncan's up-coming book).

We collected over 15 species of robber flies, which were frequently our competitors when looking for insects in open areas. Some had fantastic emerald-green eyes. None was quite as large as a species I have taken in the Carberry Sandhills, but still impressive insects. Another black fly was enormous (30mm), while wonderful bee mimics were seen resting on bushes. Grasshoppers, katydids and crickets were represented by a bewildering array of shapes (I like the coneheads), colors and sounds. Near the end of the trip we found a new book in Barnes and Noble with great illustrations of these taxa. We could have used it earlier. Only two species of cicadas (including *Tibicen canicularis*) were collected on this trip (resting in shrubs or knocked out by hitting the pavement at lights), but several other species were heard. Capturing cicadas once they are warmed up is quite a challenge. We found the best way to trap them was between two nets, swung together at exactly the same time at the branch on which the insect was sitting. Treehoppers and leafhoppers were frequently gathered up while sweeping vegetation.

Other arthropods were seen occasionally, particularly centipedes, millipedes and spiders, a few of which we preserved. One image stands out in my mind. I was collecting beetles one night around the concrete base of a tall light stand at a Wal-Mart when I discovered a gathering of about 30 enormous harvestmen (Order Opiliones) -- all spaced at leg length from each other on the vertical service. I hope someone can tell me the significance of such a social grouping, since I presume it had to be more than just attraction to a common feeding ground with all the insects accumulating at the light base. And of course there were often plenty of cockroaches, fortunately mostly outside and not in our motel rooms. Why they were absent from behind most restaurants and shockingly abundant around a few auto-repair and lube shops, we could not fathom.

Sometimes while working under lights, we would be covered in little flying carabids and other insects. We were frequently picking them out of our hair later in restaurants or in bed. At times there were amazing numbers of insects circling madly around lights or on the ground, especially when the evening remained hot and humid, and many more kept coming in each hour. Naturally, insect predators such as *Calosoma*, *Scarites* and *Pasimachus* arrived and set up shop to feed on this abundant harvest night after night. The little brown tiger beetle *Cicindela punctulata* was regularly seen hunting around lights, sometimes in the hundreds. While reputed to be the most common species of tiger beetle in North America, it is always a rare find in Manitoba's mixed-grass prairie. At night and at dawn, feral cats, opossums, armadillos and birds quickly picked up any tired or dead beetles left on the pavement. It became a bit of a joke when we saw dead or weakened specimens of the ground beetle *Harpalus* at the entrance of almost every store and restaurant, for we then knew that collecting would be good that night.

Other highlights of the trip included seeing the Corn Palace, Kansas Pyramids, Mammoth Museum, Fick Museum, Blue Bunny Ice Cream Museum in Le Mars, Iowa (reportedly the ice-cream capital of the world), the pecan delights of Waffle House, Braems Ice Cream parlors, and finding newly opened cappuccino cafes, even in some of the smallest towns. The Chinese buffets were irresistible and usually the best in town for taste, nutrition, and dollar value. As all

field biologists well know, eating is a highlight of each day, especially when hypoglycemia sets in from strenuous hikes and long hours.

We have no idea how many specimens we came home with, but they no doubt number in the thousands, including many hundreds of species. These and our field notes will eventually find their way into the J.B. Wallis Museum and the National collections in Ottawa. A few series will be exchanged with other entomologists from around the world. This past winter, while we prepared the specimens and printed the labels, we recalled the great warm days of summer in the field, and the night life in back alleys of many southern towns. One week after we returned home, the battle scars on our legs from thorny plants and poison ivy were still healing, and we were still extracting terribly scratchy grass seeds from our socks, but we can't wait to hit the trail again another year. "So many bugs -- so little time!" (quote by our collecting buddy Stephen Lenberger of Naples, Florida). **The End**

NEW MEMBERS

Karen Hawkin

Karen Hawkin began the Master of Entomology program at the University of Manitoba in September 2005 after a life-long fascination with insects. Before that, she was a professional musician in Halifax for three years. During that time, Karen taught violin, fiddle and piano lessons to children as young as 3 ½ (they were adorable and very squeaky!), busked downtown during the summer and played at weddings, conferences and anywhere else where they were willing to pay her. One of the highlights of those years was when she had an opportunity to work with Bobby McFerrin at a huge choir festival in St. John's., Newfoundland. (Bobby McFerrin is the one who sang "Don't Worry, Be Happy" ☺).



After growing up in St. John's, Newfoundland, and working on the East Coast, moving to Winnipeg was quite the change for Karen. (She apologises to those who constantly hear her exclaim "But, it's just....it's just so flat!!!") She really likes it here however; lots of friendly people, gorgeous sunsets and an incredibly warm and prolific artistic community. She is slowly getting used to the general lack of coffee cream (18% coffee cream, not that horrible half-and-half stuff) in the city as well.

To close, there are four facts she would like to share with you about her home province of Newfoundland:

1. Newfoundland is *not* part of the Maritimes but it is part of Atlantic Canada.
2. It is pronounced NEW-fin-land. ☺
3. It is an incredibly beautiful province.
4. We do not have that wonderful store 7-11 there. There aren't any in Halifax either. It's a shame – so much Slurpee for so little money!

Rasoul Bahreini

Rasoul Bahreini joined the University of Manitoba's Entomology Department in January 2006. His BSc. is in Plant Protection from Tabriz University (1990) and his MSc. is in Agricultural Entomology from Ahvaz University (1993), Iran. He worked in the Entomology Department as a visitor scientist on "Indoor Fumigation with Formic Acid" in 2004-2005. He is currently working on his Ph.D. degree under the supervision of Dr. R.W Currie on "Reducing Varroa mite (*Varroa destructor* A. & T.) loads in high and low tolerance honey bee (*Apis mellifera* L.) stocks". In Iran he works in the Honey Bee and Silkworm Department of the Animal Science Research Institute in Karadj from 1993, and was principal investigator of 8 projects. He is particularly interested in mites and other pests and predators attacking honey bees. He has 18 papers published or in press, 35 in conference proceedings on the topic and is advisor to four MSc students in this area of study.



ESM Social Committee News

ESM Luncheon, Wednesday February 22, 2006

The ESM Social Committee organized the first luncheon seminar of 2006. It was held on Wednesday February 22, at Oceana restaurant. The speaker was Rhéal Lafrenière, Provincial Apiarist with Manitoba Agriculture, Food and Rural Initiatives and his topic was **Beekeeping in Chile**.

There were 11 members in attendance to hear Rhéal speak about his experience in Chile. He first made a correction and changed the title to **Beekeeping Adventures in Chile** as he felt this title was more fitting. He showed slides of the systems currently used for beekeeping in Chile. It was apparent that as each beekeeper is working independently there is need for the producers to work together towards something like a co-op system, which would greatly benefit everyone involved. Rhéal did a wonderful job of comparing and contrasting beekeeping in Chile to beekeeping in Canada. The main advantage Chile has is that they are able to produce very uniform honey as the plants the bees pollinate are similar throughout. There were a few exceptions where bees would pollinate plants that were unique to the region and the honey had a strong distinct flavor with the possibility of niche marketing. Rhéal also brought along samples of honey from Chile for everyone to smell and taste.

Although this was a relatively small audience it was very intimate and allowed for questions and comments as the presentation progressed. The society would like to thank Rhéal for taking time in his schedule to present an interesting perspective on apiculture in Chile. It was a nice combination of an excellent talk and great food.

New Members' Social, Friday April 07, 2006

On Friday April 7, 2006 the ESM Social Committee hosted a 'New Members Bowling Night'. The event took place at Garry Lanes and began at 7:00 PM. Snacks were served to give players the energy needed to bowl. There was also a cash bar to give the players courage needed to bowl a variety of games. ☺ We played a bingo bowling, a novelty bowling and a regular game of bowling. Eighteen people attended the event. This broke down to 3 teams of 4 players, 1 team of 5 players, and 1 coach/spectator.

Along with the traditional purchasing of silent auction tickets, contestants won tickets by winning points in the game or for 'skilled' shots, which were then put in for chances to win prizes. There were some great prizes to be won so competition was fierce. We would like to thank everyone that came out and hope to see you all at the next event. We are planning to host a speaker luncheon in early fall so please watch for upcoming details via e-mail. As always, we would welcome any ideas and or suggestions. Have a great summer, and watch your e-mail for information regarding upcoming events!

We would like to gratefully acknowledge and thank the following sponsors:

Labtronics
Boston Pizza
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The Lafreniere Family
The Wolfe Family

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SUMMER EVENTS

Prairie Day 2006

Manitoba Tall Grass Prairie Preserve

Saturday, August 12, 2006

Please join us for a fun filled and educational day in the endangered tall grass prairie ecosystem. Start the day with a driving tour and guided hike to learn about the prairie wildflowers and see the effects of fire management. Afternoon activities include building your own bird or bat house, birding basics and dissecting owl pellets to reveal their feeding habits. Children's author Joe McLellan will be sharing his stories. Meet Pepper and Nemo live, long-eared and northern saw whet owls. Experts will be on hand to answer your questions about prairie mammals big or small, explain how you can create your own patch of prairie, and discuss the amazing diversity of prairie insects. You'll want to stick around for a full course meal at the Gardenton Museum – including a mix of traditional Ukrainian and wild edible dishes - and enjoy real life stories about the local pioneers. A multimedia presentation will take you on a journey in time to experience the changing seasons in the prairie landscape. Once the sun has set, you can take in an astronomy lesson, go owl hooting or view the entomological nightlife under the glow of ultraviolet light.

This is just a sample of events and activities, so mark your calendars for August 12th to take a

trip on the wild side!

Events will take place at the Agassiz Interpretive Trail, 6.4 km west of Vita on Hwy 201.

Admission: \$5.00 per person or \$8.00 per family. (Meals not included.)

A B-B-Q lunch will be available from 11:30am to 1:00pm and a canteen will be open until 4:30pm.

As an added bonus, you can join a driving tour of prairie sites managed by The Nature Conservancy near Karlstad, Minnesota on Sunday, August 13th.

To reserve a meal at the Gardenton Museum or for more information contact the Preserve headquarters at (204) 425-3229 or tgpphq@escape.ca.

**Grand Reopening of Norman Criddle's
First Entomology Laboratory on the Prairies
Sunday, August 13, 2006**
Sherry Dangerfield, Sherryd@mts.net

Thank you to all the entomologists across the country for your support of the restoration of Norman Criddle's first laboratory. The Criddle-Vane Homestead Heritage Committee is planning a celebration to 'reopen' the laboratory – August 13, 12:30 to 3:30. We extend an invitation to you all to attend.

Restoring the little laboratory was no small undertaking. A year of planning, a year of fund raising and a year of carpentry. CVHHC hired a restoration carpenter to guide us with the work. Parks Canada was also generous with advice from their restoration department. From trying to sort out what was original building based on photos of only two sides, to milling cedar siding to match the original, it has been a challenge.

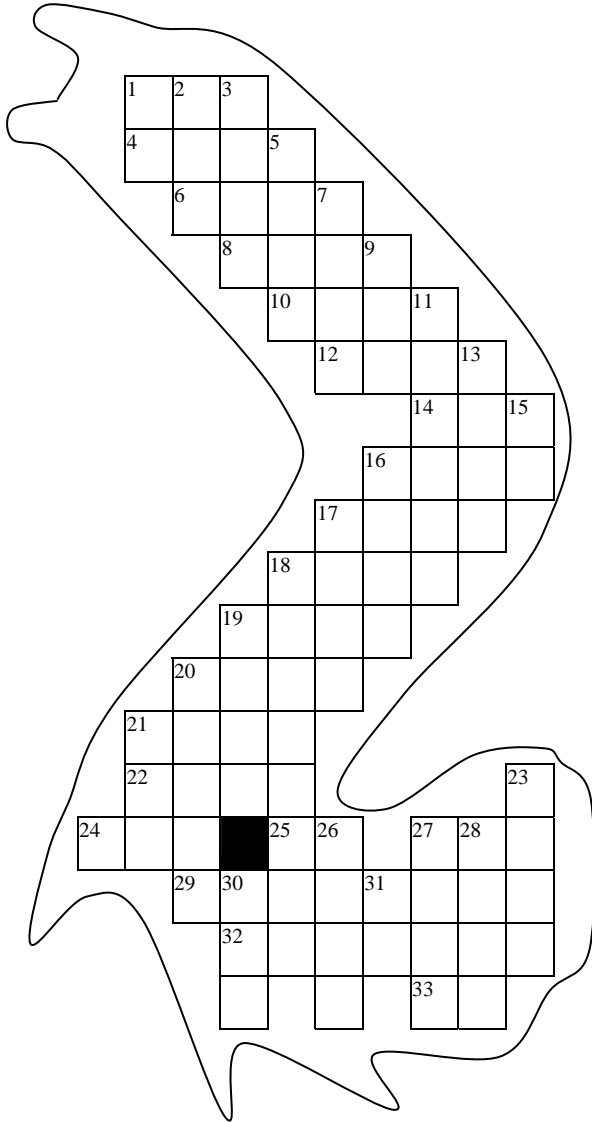
In the end we could save very little of the original outer siding as it crumbled when we worked with it. The lab is looking very 'new' now, but a few years in the prairie sun will take some of the polish off. It was a continual balancing act between trying to save as much of the original as possible while trying to restore it to last another 100 years. It still needs to be painted and the screened addition added but we plan to have it completed by August 13.

The grand reopening event starts at 12:30. There will be an entomology display at the lab, guided tours, wagon rides around the homestead, children's games and bug fun, golf, and a fundraising BBQ. At 3:00 there will be a few presentations and the ribbon cutting for the lab. We hope you can attend.

Note: We are still looking for photographs or sketches of the inside of the lab for restoration and interpretation. If you know of any please contact the CVHHC.

How Many Four-Letter Words Do You Know?

Your mother would approve of all of these words. And all you taxonomists – *pretend* it's a geometrid! - Marj Smith



CLUES

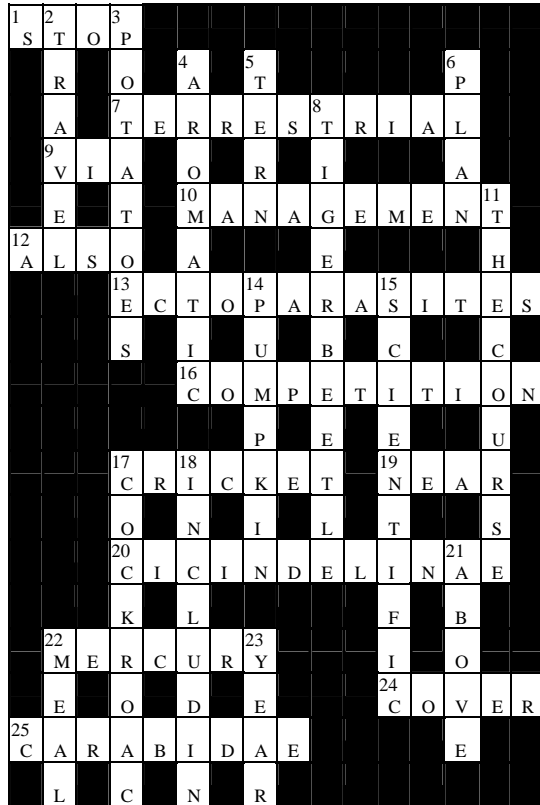
Across:

1. uninvited picnic guest
4. where lice like to hang around
6. wax producers
8. what you do with a mature crop
10. in ____; in place of
12. what a fly does when it's finished flying
14. how calliphorids like their meat
16. minute opening in skin
17. insect larvae do this between instars
18. home for a formicid
19. an aphid usually doesn't need one
20. sperm producer
21. unwanted insect
22. garden implement on a bee's hind leg?
24. hair styling aid
25. do again (prefix)
27. shade of colour
29. conceding
32. it requires a semi-permeable membrane
33. thoroughfare (abbrev.)

Down:

1. sigh of satisfaction
2. apprehend a thief
3. layer
5. where a fisherman winds the line
7. navigate a yacht
9. food plant for *Acyrtosiphon pisum*
11. what a lepidopteran larva might do after winter
13. how Odonata often move
15. you and I
16. North or South ____.
17. Acari member
18. dipteran gyroscope
19. elongate labium of a dragonfly
20. ____bug; common name of some Coccoidea
21. syllable meaning before
23. Insecta have three pair
26. where *Paleacrita vernata* prefers to hang out
27. comment from *Gromphadorhina portentosa*
28. individual thing or group
30. electrically charged atom or molecule
31. perform or carry out (a task)

The Solution to an Entomological Puzzle.
 Here is the correct version to Marj Smith's contribution to the Winter Issue of the ESM Newsletter.



MEETING ANNOUNCEMENTS*

Entomological Society of Manitoba Meeting
 Winnipeg, 14 October, 2006
 Contact: Brent Elliott, 21HBelliott@gov.mb.ca

Joint Annual Meeting of the Entomological Societies of Canada and Quebec
 Montreal, Quebec, 18-22 November, 2006
 22H<http://www.esc-sec.org/agm.htm>

Annual Meeting of the Entomological Society of America
 Indianapolis, Indiana, USA, 10-14 December, 2006
 23Hhttp://www.entsoc.org/annual_meeting

Joint Meeting of the Entomological Society of Manitoba and the North-Central Branch of the Entomological Society of America
 Delta Hotel, Winnipeg, 25-28 March 2007
 Contact: Brent Elliott, 24HBelliott@gov.mb.ca

Joint Annual Meeting of the Entomological Societies of Canada and Saskatchewan
 Saskatoon, SK, 30 September – 3 October, 2007

Annual Meeting of the Entomological Society of America
 San Diego, CA, USA, 9-13 December, 2007
 25Hhttp://www.entsoc.org/annual_meeting

International Congress of Entomology
 Durban, South Africa, 06-12 July, 2008
 26Hwww.ice2008.org.za

*If you have a meeting you would like listed in the next ESM Newsletter, contact the editors with the details by early September 2006

Insect Drawers For Sale

I have 12 or so brand new, never used insect drawers. These are 18W X 173/4L X 2.5L (all in inches), glass top. These can be purchased one or more at a time for the price of \$65.00 each, which is what I paid for them 10 years ago. For viewing or for additional information, please contact me by phone at 781- 5071. Joel Gosselin

ESM EXECUTIVE 2006

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