

The Entomological Society of Manitoba *Newsletter*



Volume 32 Number 1

ISSN 0836-5830

Winter, 2005

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.

Pat MacKay, Editor¹
Mahmood Iranpour, Editor²

Dept. of Entomology,
University of Manitoba
Winnipeg, Manitoba
R3T 2N2

¹Ph. (204) 474-9204
pa_mackay@umanitoba.ca

²Ph. (204) 474-6994
iranpour@ms.umanitoba.ca

Editors' Comments

There are three items we would like to draw to your attention this time around.

First: Hurry, hurry, hurry..... limited time offer, one time only, etc. etc. Robyn Underwood and Lars Andreassen, graduate students in Entomology at U of M are arranging to bring some really excellent **entomological apparel** from Australia to Canada for you. The shirts and sweatshirts are of excellent quality with fabulous embroidered insect graphics. And your purchases will assist the Entomological Societies of both Manitoba and Australia. Get your orders in quickly!

Second: From March 05 to April 23, the Children's Museum of Manitoba, along with support from some members of Entomology at U of M, are putting on an incredible insect exhibition, called appropriately **Incredible Insects**. You can get involved in two ways: you can find a child and bring him or her down to the display, or you can contact Kathleen Ryan (474-9257, kat_ryan@hotmail.com) and volunteer to come down and staff a part of the display about which you have knowledge or enthusiasm. Two great opportunities – see you there.

Third: Check out the list of meeting announcements. There's been an important change. The **Entomological Society of Canada meeting** in Canmore, Alberta has been rescheduled by one day to November 02-05, 2005. Note that the Entomological Society of America meeting next year begins on November 06, 2005.

In closing, keep those submissions coming, we're looking for any kind of entomological information. For example, this issue has the last of the series Unexpected Entomological Connections and we'd love to have more. Remember, you don't have to write the item, just tell us about it and we'll write it for you.

Pat MacKay & Mahmood Iranpour

From the President's Point of View

Greetings all. I had glorious plans for my first crack at this section of the newsletter. In fact, I'd had my first note planned since reading one of our former President's notes last year. John did an eloquent job of outlining what we do down in Carman from an extension standpoint, but it wasn't entirely accurate for me. I often feel like a lost soul being a horticultural entomologist in the midst of millions of acres of canola, so I had planned to regale you with tales of the lonely hort guy. It's not to be. Why, you may ask? Well, Manitoba Agriculture, Food and Rural Initiatives (MAFRI or MDA for the old timers) has undergone some restructuring. While a clear message was sent that entomology remains important (all four entomologists remain in their positions) it is somewhat unclear what John and I will be doing. So the job description will have to wait until I at least have an idea of what I am doing (some may say that day will never come).

In the interim I'll put forward an idea. While the Society itself remains healthy, I do have some very serious concerns about the future of the society and entomology itself in this province. Clearly MAFRI continues to support entomology but I am concerned about the Department of Entomology at the University of Manitoba (as you know, the last remaining formal Department of Entomology in Canada) and the future of entomology at Agriculture and Agri-Food Canada, as it relates to Manitoba. The Department is down two staff members from its full complement. AAFC in Manitoba has only two entomology research scientists and while I clearly recognize the importance of stored products research, I think it would be not too unreasonable to have one or (gasp) even two field entomology researchers as well. The only time I see anyone but Noel or Paul is at national meetings, so I'd dare to suggest that there aren't very many entomologists crossing into Manitoba to address our problems.

During my tenure as president of the society, at the very least, I would like to be known as a thorn in the side of both the University of Manitoba and the good folks at AAFC. No, this does not mean I'll be reprising my graduate student experience. Rather I would like to mount a bit of a campaign to "bring back the buggers" to those organizations. I have some ideas on how to do some of it, but I would really welcome suggestions from the membership on ways to convince both organizations that entomology is not only valuable, but critical to agricultural production and society in general.

I look forward to hearing suggestions from all aspects of the society. Anyone have the phone number for the Federal Minister of Agriculture?

Brent Elliott
Entomologist, MAFRI
and
President, ESM

Unexpected Entomological Connections*

In the summers of 1968 and 1969, Pat MacKay (currently in Entomology at U of M, and one of your Newsletter Editors) collected thousands of wild bees, mostly halictines and andrenids, for her M.Sc. in Zoology at the University of Toronto. Thirty-three years later in the spring of 2002, she received an email from a student of Laurence Packer's at York University named Jennifer Grixti. In her email, Jennifer asked about the precise location of Pat's collecting sites and any other practical details she might remember about the study. Pat emailed back that given the changes in the major highways around Toronto she didn't think that there was any way she could find her old sites again, but that she would be happy to provide any information she could. Jennifer didn't email again, and Pat proceeded to forget about her as well as her own three decades old M.Sc. thesis. Then in the fall of 2003, at the Kelowna meetings of the Entomological Society of Canada, Pat noticed a paper on the program that had to be the student who had contacted her, a year and a half previously. Off she went to the paper. Jennifer did an outstanding job of comparing her own modern sampling and analysis of the biodiversity of ground nesting bees with the study Pat did 35 years ago, collecting at all the same sites. Jennifer certainly acknowledged that her study relied on Pat's earlier work, but didn't actually mention Pat's name. During the question period, she was asked by an audience member (not Pat) who it was who had done the initial study, carried out well before she, the speaker, was

born. Jennifer said: "Dr. Patricia MacKay, retired, and I don't know where she is now." Pat put up her hand from the back of the very dark room and said, "I'm here", much to the entertainment of speaker and audience. They had a very good discussion later in the meeting, and met again at the International Congress of Entomology in Brisbane, Australia. In conversation with the York University students, Pat was told that Jennifer could often be seen wandering the halls clutching Pat's 1970 thesis. Pat was surprised to find that anyone other than her Mother was so enamoured of that document. Jennifer is now doing her Ph.D. on a similar topic.



A halictine bee foraging on orange hawkweed in July in the Experimental Lakes Area

***Do you know of any Unexpected Entomological Connections? If so, contact the editors of this Newsletter and let us tell everyone.**

NEW STUDENTS IN ENTOMOLOGY AT U OF M *

Lars Andreassen

I am from Camrose, which is a small community in Alberta, about an hour from Edmonton. I did my BSc. there, at a small university called Augustana. Living in a bustling metropolis like Winnipeg took some getting used to, but it is starting to grow on me.

I started my Master's last September at the University of Manitoba, working with Dr. Holliday. My project consists of evaluating the potential for non-target effects associated with using *Aleochara bipustulata* as a classical biological control agent against the cabbage root maggot, as well as the synchronization of these two species. I am very fortunate because this means my field work will mostly be done in Switzerland with Dr. Ulrich Kuhlmann. After I am finished my education I hope to find a job doing research on environmentally sustainable agriculture.



Ali Hosseini Gharalari

I completed my bachelor degree at the University of Urmia, Iran, in 2001 in the field of Plant Protection and pursued graduate studies in Tarbiat Modares University, Iran, receiving my M.Sc degree in 2002 in Agricultural Entomology. My M.Sc thesis was about the demographical and population parameters of cabbage aphid *Brevicoryne brassicae* and its parasitoid *Diearetiella rapae*. I worked for 6 months in Agricultural Entomology Research Department of Plant Pest and Diseases Research Institute which is a part of Iran Agriculture Ministry. I started my Ph.D. degree at the University of Manitoba in September 2004.



Currently I am doing some preliminary studies and experiments on wheat midge oviposition behavior under the supervision of Dr.M.Smith and Dr.S.Fox. My Ph.D. thesis will be about the inheritance of resistance to wheat midge in some of the wheat varieties. I would like to thank the Cereal Research Center for supporting my research project and preparing the facilities, I also thank Dr. Lamb, Mr. Wise and Dr. Barker at CRC, for their useful recommendations during these few months.

Email: umhossea@cc.umanitoba.ca
gharalaria@agr.gc.ca

Anita Stjernberg

I graduated from the University of British Columbia in 2003 with a Bachelor of Science, majoring in Animal Biology. While I was at UBC I worked for 3 years at the Spencer Entomological Museum and after graduation, I worked for a year and half at E.S.

Cropconsult Ltd. in B.C. as an integrated pest management consultant and research assistant.

I specialized in the pests and diseases of blueberries, strawberries, carrots and onions. I started my Masters in

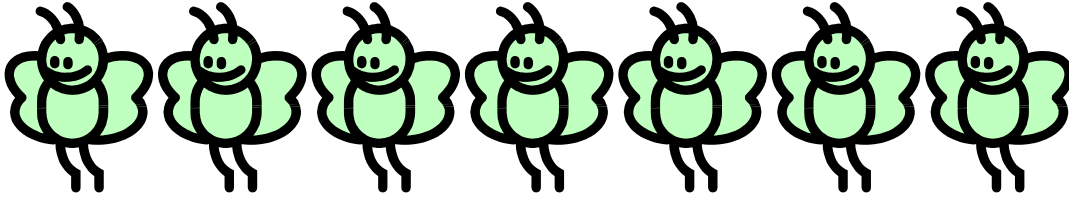
Entomology this past September at the University of Manitoba under the supervision of Dr. Rob Roughley. My thesis will examine

the impact of seasonal (spring and fall) cattle grazing on the insect biodiversity of the Yellow Quill Mixed-Grass Prairie, using Carabidae and Araneae as bioindicators. My interests lie in the conservation of biodiversity and of habitat for endangered species, as well as tropical and forensic entomology.



***See the next issue for more new students!**

Social Butterflies Corner



The ESM Social Committee held the first luncheon seminar of 2005 on January 12. It was held at The Cork and Dock restaurant. You will be pleased to note that there were no insect entrees on the menu. Lunch offered a variety of selections including, Greek salad, char-broiled burgers, chicken fingers, seafood melt and Reuben sandwiches.

The topic of the talk was “The history of grasshopper outbreaks and grasshopper control in Manitoba.” It was presented by John Gavloski, entomologist with Manitoba Agriculture, Food and Rural Initiatives.

The seminar began by describing how swarms of locusts would darken the rural Manitoba skies, and savage every tree, field, garden, and sometimes clothing hanging on the line. These were the Rocky Mountain locust which has been extinct since 1902. From then onwards Manitoba farmers have battled against different species: migratory and clearwinged grasshoppers.

John has compiled an account of grasshopper control methods used over the last century. It is fascinating how the control practises have come full circle, beginning with an arsenic based bran bait until post WWII, and in more recent years Eco-bran which is also a bran bait mixed with insecticide. Throughout the talk it was demonstrated how innovative farmers have been from broadcasting the poison bait to kill grasshoppers by hand, horse, and truck to the invention of hopper dozers pulled in the field to capture and kill grasshoppers.

The message that John left us with is that there is a lot more to grasshopper control than just chemical use. He is promoting public awareness, and for more information please contact, John directly at (204) 745 – 5668 or by e-mail jgavloski@gov.mb.ca.

There were 26 people present to hear this talk and share in the fine food. We are planning to hold more luncheon seminars in the future and hope to see you there.



UPCOMING...

Watch your e-mail as we are planning the Annual New Member's Social for late March or early April. **New members** receive free admission. Mark your calendar and plan to come out to meet the new entomologists as well as mingle with some of the seasoned ones. Stay tuned for further details.



We are constantly seeking ideas; volunteers to give talks and events that the members would like to do as a society. Should you have any suggestions or comments please let us know. Thank You!

Rhéal Lafrenière
Provincial Apiarist
Manitoba Agriculture,
Food and Rural Initiatives
204-545 University Cres.
Winnipeg, Manitoba
PH. (204) 945-4825
FX. (204) 945-4327
Rhlafrenie@gov.mb.ca

Sheila Wolfe
Entomology Technician
Agriculture and Agri-Food Canada
Cereal Research Centre
195 Dafoe Road R3T 2M9
Winnipeg, Manitoba
Telephone: 204-983-1450
Facsimile: 204-983-4604
E: swolfe@agr.gc.ca

REPORTS ON MEETINGS AND WORKSHOPS

The 2004 Meeting of The Entomological Society of Canada - October 15-18, Charlottetown, Prince Edward Island

This very successful meeting was hosted by the Acadian Entomological Society, and held for the first time in Charlottetown, P.E.I. I suspect that this was the first visit for many of us to P.E.I., and the timing was just right to see the autumn foliage in full colour, contrasted with the red soils and green pastures of this lovely island. The meeting was held in downtown Charlottetown, at a small, old, but well-maintained hotel, an easy walk to the many restaurants and cultural centre of the city. To me, the hotel was the perfect venue: the meeting rooms were spacious and comfortable and we filled the building with enthusiastic entomologists from across Canada. The very busy organizing committee was lead by Donna Giberson as chair and responsible for local arrangements, and Jon Sweeney, responsible for the scientific program. Some of you will remember Donna from her time as a Ph.D. student in aquatic entomology in the Department of Entomology, University of Manitoba. With a plenary symposium on Insects in the Landscape, over 130 oral presentations and 48 posters, the program was full and stimulating. On the social side, the PEI Kitchen Party with live music and dancing was a great hit.



Neil Holliday delivers the Heritage lecture

Organizing and conducting a successful meeting like this is always a lot of hard work, and particularly so for a small regional group like the Acadian Entomological Society. Their members and the volunteers are spread across three provinces and the state of Maine. Furthermore, PEI is almost as far east in our large country as you get, making transportation costly. I know Donna and Jon were concerned about the registration; they needed 180, hoped for 200, and got about 230 registrants - quite an achievement. At one point Donna told me she feared that not all the entomologists would fit into the banquet room. We fit, and enjoyed rubbing shoulders with our colleagues. One particular satisfying aspect of the meeting was the large attendance by entomological graduate students, which bodes well for future meetings and the entomological community as a whole.

Manitoba entomologists were well represented at the 2004 meeting, both at the board and business meetings of The Entomological Society of Canada, and as participants in the scientific

program. I took over as President of the national society at the Annual General Meeting and so attended the business sessions, which although essential are not usually quite as interesting as the scientific sessions or the social activities. Pat MacKay attended as Regional Director from



Kathleen Ryan receives the President's Prize from Kenna MacKenzie of the Acadian Entomological Society, incoming ESC president Bob Lamb and outgoing ESC president Charles Vincent stand behind

Manitoba; Paul Fields attended as a Trustee in his role as Bulletin editor; and Neil Holliday presented the invited Heritage Lecture entitled "Norman Criddle: Pioneer Entomologist of the Prairies. Brent Elliott attended from Manitoba Agriculture, Food and Rural Initiatives. A number of Manitoba graduate students attended, including Kathleen Ryan who won the President's Prize in the Pest Management and Biodiversity Section and Ayman Mostafa who presented his paper in the Graduate Symposium.

All the sessions were very well attended with attentive, questioning audiences, and the Annual General Meeting was one of the larger ones that I can recall. Entomologists have a reputation of being a staid and responsible group of professionals, which they lived up to. I must report, however, that at the very end of the meeting when most participants had left and it was almost time to leave for the airport, Pat MacKay and I had a final beer in the hotel bar with colleagues. The bartender brought us our beers, and apologized for the limited selection. Apparently the staid entomologists had drunk the hotel dry of all the local brew, all the Moosehead, and almost all of the less popular brands. It was a successful meeting, and bodes well for the 2005 joint meeting with the Entomological Society of Alberta to be held in Canmore, Alberta, November 2-5, 2005. See you there.



Pat MacKay pretends to sing at the Kitchen Party after the banquet

Bob Lamb
ESM Member and ESC President

**The 2004 Meeting of the Entomological Society of Manitoba
November 05-06, Winnipeg, Manitoba**

The 60th Annual Meeting was held November 5-6, at the Freshwater Institute (Nov 5) and the Animal Sciences and Entomology Building of the University of Manitoba (Nov 6). The theme of the meeting was “Factors Affecting Insect Orientation: Shaping Behaviour from the Outside and Within”. There were four guest speakers in the symposium, Jack Gray (University of Saskatchewan), Karen Mesce (University of Minnesota, Twin Cities Campus), Irene Pines (Forestry Branch, Manitoba Conservation), and Rory McIntosh (Forest Service Branch, Saskatchewan Environment). There were 17 submitted papers, and fifty people registered for the meeting.

Desiree Vanderwel, the Chair of the committee organizing the meeting waxed particularly eloquently about all the volunteers associated with the organizing and running of the meeting. Counting all the names she listed in her report, the total number of volunteers was somewhere around 25 people. That’s approaching one quarter of the Society’s membership, and a pretty impressive number. We can certainly be proud of ourselves, particularly if we continue to maintain that level. So get out there again and volunteer for something else! (Try Youth Encouragement, the Children’s Museum insect display, next year’s ESM meeting, the fast-approaching ESA-NCB 2007 meeting.....)

The social events included the usual mixer and banquet. The Meet-the-Visitors Mixer was on Friday night at the home of Pat MacKay and Bob Lamb. Actual heads were hard to count as no one would stay still, but based on a count of overcoats at approximately mid-evening, around 45 people attended this year. The banquet on Saturday night was an East Indian feast at Kismat Banquet Hall, and was attended by 36 initially hungry and ultimately well fed people. At the banquet the awards were announced. The Student Achievement Award went to Erica Smith, formerly an undergraduate in Zoology at the University of Manitoba, now enrolled as an M.Sc. student at Memorial University, Newfoundland. The Orkin/Swat Student Award was given to Candice Grant who is currently in Biology at the University of Winnipeg. The recipient of the ESM Graduate Scholarship was Kathleen Ryan, M.Sc. student in the Department of Entomology at the University of Manitoba supervised by Neil Holliday and Richard Westwood.

The business meeting of the Society was held on Saturday afternoon and generated the usual attendance and plenty of discussion, but no discord. The meeting began with a minute of silence in memory of Dave Pengelly and Gord Hamilton who died recently. Issues discussed included: a donation to the group restoring Norman Criddle’s first laboratory at Aweme; the need to contact winners of the Society’s awards well before the meeting so that they can arrange to attend the banquet to be presented with their prize; the stellar fund raising abilities of Joel Gosselin, without whom our meetings would cost us a great deal more. Final, those attending were updated on the ongoing arrangements for the ESA-NCB 2007 meeting, for which Brent Elliott will be in charge of local arrangements and Paul Fields will be in charge of the scientific program.

FLIES ON THE WATER: A Workshop Program Presented by Terry Galloway

What group of non-entomologists do you think has the most intense interest in insects? My vote has to go with the Manitoba Fly Fishers. It has been my pleasure to be associated with this organization for more than ten years, not as a member and participant, but as their guest, to talk about aquatic insects. It has been my experience that they are as avid about these insects as the fish they seek to catch.

I have been invited to speak to the group five times over the years. On my first visit, I had no idea what to expect. I had been warned by Don Cobb and John Flannagan that these people were mad about aquatic insects, but I had no idea that they were speaking conservatively. I prepared overheads and slides about life histories and emergence patterns for many of the insects in Manitoba streams. I was very fortunate, because Don, Donna Giberson and Brian Hiese had recently completed important research on different elements of our aquatic insect fauna. The fly fishers rose to every piece of information like trout during a mayfly hatch. The questions were spontaneous and interesting. The discussion was intense and entertaining. I had had few such enjoyable interactions with an audience before.

On my next visit, I tried to assemble information on emergence phenologies and I prepared a short summary of the major groups of aquatic insects likely to be encountered in Manitoba. We ended the evening with a lengthy discussion about ticks and Lyme Borreliosis, and the risks fly fishers faced on their fishing trips in Manitoba. The response to all this was the same as before, and as an added bonus, I was invited to join some of the members on their first spring outing to the Roseau River. I have taken many classes of Aquatic Entomology to the Roseau to collect insects, and these fly fishers had spent many hours waist deep in the cold water of the Roseau. I don't recall that many fish were landed, but we had a great time exploring the insect fauna. I also came to learn that the Roseau wasn't the only watering hole frequented by the fly fishers.

At this time, I thought it was time to return the hospitality the fly fishers had shown me, so when they asked me again to attend one of their meetings, I suggested that they come out to the University where I could offer them the use of our microscopes for a close-up view of the insects they sought to mimic in their immaculately tied flies. When the group assembled, we had a full house, and me with laryngitis. Fortunately, Stacie Stiege was midway through her M.Sc. research on caddisflies in the Winnipeg River. Stacie performed yeoman service with me croaking minor support from the peanut gallery. This was the first time that many of these people had had the opportunity to look at insects through the stereomicroscope. I think many gained an entirely new appreciation of these amazing insects.

Last fall, I was off again to one of their meetings. But this time, I changed my strategy of presentation. Instead of talking about the insects that are fed upon by fish, I focussed on the insects that feed upon the fly fishers. We covered mosquitoes, black flies, no-see-ums, horse flies, deer flies, stable flies...you name it. I was a little nervous that this topic might not be precisely what they wanted to hear about, but I needn't have worried. I was very impressed with the scope and depth of the questions. It was also a great opportunity for people to share their experiences with blood-sucking flies, and there were some great stories. I learned a lot about these avid sportsmen from this discussion: that they are keen observers and that their interests stretch well beyond the world of fly tying and fly fishing.

I am already looking forward to our next encounter. They are lined up to visit the Department of Entomology at the U of M once again to peer down the barrels of the microscopes


to explore the world of aquatic insects. If any of you would like to join us for the evening, you are most welcome. Please let me know by dropping me an e-mail and I will get in touch with you and provide you with the specific details. (Terry_Galloway@umanitoba.ca)

INCREDIBLE INSECTS at the Manitoba Children's Museum

From March 05 to April 23 the Children's Museum, with assistance from the Department of Entomology at the University of Manitoba is putting on an incredible display of incredible insects. The learning objectives for children (and their accompanying adults too) include exposure to such topics as insect body parts, life cycles and metamorphosis, mimicry and camouflage, moths versus butterflies, social insects, Manitoba backyard insects, and the WOW factor. The Department of Entomology component is being organized by Neil Holliday, Terry Galloway, Kathleen Ryan, Kim Riley and Lisa Babey, five enthusiasts of the highest order. According to the entomologists involved, the Museum is going to a huge amount of effort to develop a display area, with all sorts of new artwork and other components. The Department of Entomology is going to provide lots of live material, including mealworm and Brazilian cockroach (the gigantic one) colonies, stick insects, hissing cockroaches, and an observation hive. Preserved material will include pinned butterflies and moths, pinned specimens representative of the Manitoba insects, and a comparable series of pinned specimens of the biggest and/or most colourful tropical insects available.

There will be more than just the displays! There will be activities too. The target group is children up to about 9 years of age (although is any one ever past an age to be impressed by insects?!?), and there will be an activity centre for the very young. There is the possibility of insect-themed birthday parties, with bug bingo and other entomological games.



The Museum is arranging to have several special volunteers to staff parts of the display, including, for example, beekeeper and teacher Margaret Smith. The Department of Entomology will also be organizing volunteers to staff the display generally, or to provide special enhancement in areas of their particular interest; for example, more bee people would be great, or people interested in predators, or beetle enthusiasts, or aquatic types, or anything else you might be interested in. All you would have to do is stand around and emote enthusiasm. Timing and duration of your volunteer activity would be totally flexible. There will be an orientation session for volunteers. If you are interested, contact Kathleen Ryan (474-9257, kat_ryan@hotmail.com).



Do you know why
honeybees
dance and some
cockroaches hiss?

march 5 - april 23, 2005
**incredible
insects**

Visit the Manitoba Children's Museum, March 5 - April 23, 2005 and discover what makes insects such incredible creatures.

 In association with...

UNIVERSITY
OF MANITOBA

924-4000
www.childrensmuseum.com

Insect Shirts for Sale – Limited Time Only!

If you have attended a function with entomologists since the International Congress of Entomology in Australia this past summer, you probably saw Bob Lamb wearing an amazing sweatshirt embroidered with turquoise cockroaches. At one of these functions, I asked him about this shirt. He bought it at the meeting in Australia. He is friends with the person in charge of sales, Jane Wright, and saw her after the meeting. He found out that she had ordered far too many shirts and now has an office full of them! This got me thinking – I would really like to have one of these shirts, so maybe other ESM members would like to buy one, too! I contacted Jane and we worked out a plan for the ESM to sell these shirts for a reasonable price that includes taxes, shipping from Australia, duty when crossing into Canada, and a small profit for the ESM. So, here is your chance!

There are two styles of shirts to choose from – a sweatshirt selling for \$55 and a polo shirt selling for \$35. There are also three designs available. The first is the roach design that Bob wears. This roach is known as Mitchell's diurnal cockroach, *Polyzosteria mitchelli*. The other two designs feature the honeypot ant, *Melophorus bagoti*. You can check out pictures of these shirts and close-ups of the embroidery on the ESM web page under souvenirs. There is a variety of sizes available from S to 5XL. They run big, with the S being about a woman's 12 and the L being about a woman's 16-18. For a reference, Bob's is a large (L).

You can also see these shirts on the Australian Entomological Society's website at www.austentsoc.org.au by clicking on Society Shop. You will notice that they are selling the shirts for what seems like a lower

price, but, after shipping and duty, you will pay more than if you purchase through the ESM. You will also notice that they are selling other very nice items. If you are interested in any of these, I'm sure we can work something out to get them for you.

If you would like to order a shirt, please send your name, contact information (please include an e-mail address and phone number), and specifics about the shirt(s) you want (quantity, style, design, and size), along with a cheque written out to the Entomological Society of Manitoba to Lars Andreassen or Robyn Underwood at Department of Entomology, University of Manitoba, Winnipeg, MB R3T 2N2. Send an e-mail, too, if you think your cheque might not make it in time (umandrel@cc.umanitoba.ca or underwoodrm@yahoo.com). This is a limited time offer and we are only taking advanced orders. Please contact us by March 18, 2005!



Bob Lamb wearing his navy sweat shirt with its turquoise cockroaches. There is a similar line of roaches down the back of the left shoulder

MEETING ANNOUNCEMENTS*

IOBC Nearctic Regional Section – Biocontrol Network

Magog, Quebec, Canada, 8-11 May, 2005

Contact: Jacques Brodeur, jacques.brodeur@plg.ulaval.ca

<http://www.biocontrol.ca>

Biocontrol Network 2nd Summer School

Magog, Quebec, Canada, 12-13 May, 2005

Contact: Jacques Brodeur, jacques.brodeur@plg.ulaval.ca

<http://www.biocontrol.ca>

Great Lakes Odonata Meeting

Clearwater Lake Lodge (near Emo), Ontario, Canada, 13-17 July, 2005

www.rainyriverfieldnaturalists.org

Registration forms are available from Terry Galloway, Department of Entomology, University of Manitoba, Winnipeg, MB, R3T 2N2 (204 474 6024)

9th International Conference of the Orthopterists' Society

Canmore, Alberta, Canada, 14-19 August 2005

Contact: Dan Johnson, dan.johnson@uleth.ca

<http://www.orthoptera2005.org>

International Symposium on Biological Control of Arthropods

Davos, Switzerland, 12-16 September 2005

<http://www.cabi-bioscience.ch/ISBCA-DAVOS-2005/>

Joint Annual Meeting of the Entomological Societies of Canada and Alberta

Canmore, Alberta, 2-5 November, 2005

Contact: D.Langor & F. Sperling, DLangor@NRCan.gc.ca , felix.sperling@ualberta.ca

<http://www.biology.ualberta.ca/courses.hp/esa/esa.htm>

52nd Annual Meeting of the Entomological Society of America

Fort Lauderdale, USA, 6-9 November, 2005

http://www.entsoc.org/annual_meeting/2005/index.htm

*If you have a meeting you would like listed in the next ESM Newsletter, contact the editors with the details by early May 2005

ESM EXECUTIVE 2004

POSITION	PERSON	EMAIL ADDRESS
President	Brent Elliott	BElliott@gov.mb.ca
Past President	John Gavloski	jgavlosk@gov.mb.ca
President-Elect	Rheal Lafreniere	rlafrenier@gov.mb.ca
Representative to ESC	Patricia MacKay	pa_mackay@umanitoba.ca
Member-at-Large	Lisa Baspaly	lisa_baspaly@phac-aspc.gc.ca
Secretary	Noel White	nwhite@agr.gc.ca
Treasurer	Ian Wise	iwise@agr.gc.ca
Proceedings Editor	Terry Galloway	terry_galloway@umanitoba.ca

ESM COMMITTEE CHAIRS 2004

Endowment Fund	Marjorie Smith	msmith@agr.gc.ca
Finance	Marjorie Smith	msmith@agr.gc.ca
Scientific Program	Neil Holliday	neil_holiday@umanitoba.ca
Newsletter	Patricia MacKay	pa_mackay@umanitoba.ca
	Mahmood Iranpour	iranpour@ms.umanitoba.ca
Youth Encouragement	Kathleen Ryan	kat_ryan@hotmail.com
Social	Rheal Lafreniere	rlafrenie@gov.mb.ca
	Sheila Wolfe	swolfe@agr.gc.ca
Archives	Rob Roughley	rob_roughley@umanitoba.ca
Scholarships & Awards	Richard Westwood	richard.westwood@uwinnipeg.ca
Fund-Raising	Joel Gosselin	viceroi@mts.net
Nominating	John Gavloski	jgavlosk@gov.mb.ca
Membership	Brent Elliott	BElliott@gov.mb.ca
Scrutineer	Colin Demianyk	cdemianyk@agr.gc.ca
Web Page	Mahmood Iranpour	iranpour@ms.umanitoba.ca