

# 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

A belated Happy New Year! This issue of the Newsletter is being produced at the same time as one of your editors (PM) prepares to head to the southern hemisphere, where it is warmer than Manitoba. In this issue



we bring you greetings from **your new President, Taz Stuart**. There's a report on the details of the **October 2010 ESM Annual Meeting**, with photos of our award winners. Terry Galloway, your Regional Director, reports on the **responsibilities and activities of a Regional Director**. Alicia Leroux, your Member-at-Large, reports on the **ESC Meeting in Vancouver**. On the topic of **Member News**, there are some photos of **Reiny Brust** at the ESC Meeting, there's a note on taxonomic recognition of **Rob Roughley**, and a note on **Sunday Oghiakhe**, and his recent illness. The second half of **Bob Wrigley's 2008 collecting trip** is also in this issue. Then there are the usual items: **meeting announcements** and the list of **Society Officers and Committee Chairs**. Finally, mailed with this issue is the most recent **membership list**. We both hope that the rest of the winter here is kind to everyone, and that the spring brings warmth but not floods.

Pat MacKay & Mahmood Iranpour

## The Insect Corner....

Greetings all and all the best for 2011. I hope you had a successful fall with loads of data collected, excellent analysis, paper and report writing which should be well underway. Well that is my goal for 2011, lets see if it happens. As the holiday season has passed and as we move into the chilly portion of our fantastic 4 seasons that makes us Manitobans I hope many are back and into your respective entomological disciplines. May all your hard work turn into fantastic results for you and yours through 2011 and beyond.



From my point of view the ESM is in great shape, both financially and as a society, as we move forward through 2011. Even though we are healthy as a group, we still need those extra few people out there to fly up to the trough and provide the financial dollars and cents that make our society strong. So if you haven't paid your 2011 dues please get a hold of Ian Wise to clear up your account. Also, if you know of someone out there who has an interest in entomology or someone who would make a great addition to our society please invite them to join; the more members we have, the stronger we become.

We are planning to continue our social events in response to several requests from members to bring us together as a group and learn about the fascinating things entomology has to offer. So if you have been 'bugged' by Lisa please be nice and pass on your knowledge to others in our society at a time and place that works for some post work fun and discussion.

I'd like to pass on my thanks to Marj Smith for continuing to pass on ESM group emails, Ian Wise our dollars and numbers man, David Ostermann our details guy, our proceedings and Regional Director to the ESC, Terry Galloway, Pat MacKay and Mahmood Iranpour for creating the many editions of our newsletter and last but not least, all our committee members who help shape this wonderful society.

Again, I wish all of you a successful start to 2011 as you get your work and papers out the preverbal door and for those preparing for our next potentially very wet/flood like spring season. This shall make for a very interesting collection season if the flood forecasters are right.

Cheers  
Taz Stuart  
ESM President

## SOCIETY ACTIVITIES – The ESM Annual Meeting

On October 22 and 23 2010, ESM held its annual scientific and business meeting. John Gavloski, as Chair, along with Noel White, Brent Elliott, Mahmood Iranpur, and Joel Gosselin were organizers this year, and produced a very stimulating event on the theme of Monitoring Insect Abundance. There were 22 scientific presentations. The keynote address by Maya Evenden of the University of Alberta on lepidopteran pheromones of a number of pest species started the program on Friday morning. Four guest speakers continued the theme on Saturday morning, including: Taz Stuart, Winnipeg's City Entomologist; Irene Pines of Manitoba Conservation; R. M. Weiss of AAFC, Saskatoon; and F. Jian of Biosystems Engineering at U. of M. The second half of Friday morning and all of Friday afternoon was filled with 17 submitted papers. The attendance at the different scientific sessions ranged from a high of just under 45 to a low of around 30, out of a Society membership of slightly below 90. An attendance of between a third and a half of our members suggests that as a Society we are perhaps smaller than we once were, but we are still an active, vibrant and committed group.



ESM President Marj Smith with ESM Graduate Scholarship winner Suresh Desai.

As has been the case the last couple of years, there was only one social event: the Meet-the-Speakers Mixer at the home of Pat MacKay and Bob Lamb in Wildwood Park. It appeared that only one car and its occupants got lost this year trying to find their way around the park. Attendance at this event was, like the scientific sessions, somewhere between 30 and 40 people. A good time appeared to have been had by all. The Society Awards were announced at the Mixer, and given out to the recipients who were in attendance. Suresh Desai, a Ph.D. student with Rob Currie, received the ESM Graduate Scholarship. The Student Achievement Award went to Alicia Leroux a student in the U. of M. Agroecology program with a minor in Entomology, who will be starting a M.Sc. with Neil Holliday shortly. The Orkin/Swat Award was given to Lindsay Geisel, also a student in the Agroecology program with a minor in Entomology, who has worked in Rob Currie's laboratory. The Student Paper Prize was awarded to Sunday Oghiakhe(???????? – **confirm this**), a Ph.D. student with Neil Holliday.



ESM President Marj Smith with Student Achievement Award winner, Alicia



ESM President Marj Smith with Orkin /Swat Award winner, Lindsay Geisel.

## **SOCIETY ACTIVITIES - ESM's Regional Director to ESC**

by Terry Galloway

When Pat MacKay asked me to prepare something on the nature of the job of the Regional Director and what goes on at the annual meeting of the ESC Board, I agreed with mixed feelings. On the one hand, I feel that the role of the Regional Director is important, as the intermediary between what is happening in our own society and that at the national level. On the other hand, are the details of what goes on of interest to our local membership? I can't honestly say that most of the activities most of the time are wildly exciting. However, I have always believed that the entomological societies in Canada, at regional and national levels, play a central role in how the environment in which we work and pursue our interests is shaped, and the degree to which our own activities are entomologically enriched. So here it goes.

There is one full Board meeting each year for the Entomological Society of Canada, associated with the Annual meeting, most often associated with a Joint Annual Meeting with one of the regional societies. The Board meeting is attended by the ESC Executive, the Editors of The Canadian Entomologist and The Bulletin at the invitation by the Board, invited committee chairs, plus the Regional Directors. The meeting is generally conducted in two parts. The first part begins early on the Saturday morning before the annual meeting and the scientific programme begin. Governing board members straggle in, mostly having traveled across the country the day before, ready to undertake what always consists of a very full agenda. Routine business and preparations for presentation of critical information at the Annual Business Meeting with the general membership pack every moment of the meeting ahead. The President's goal, as chair of the meeting, is to complete the agenda by the end of the day, as efficiently as possible, while guaranteeing all individuals and issues receive the attention they deserve. The agenda includes routine items you would expect in order to run a society such as ours: treasurer's report, committee reports, reports from regional directors. Information about publication of The Canadian Entomologist and The Bulletin has been of considerable importance in recent years, as the production of scientific publications has been in a rapid state of change. Increasing numbers of entomological journals mean more competition for manuscripts, and our editors have been up to the challenge in bringing new plans and procedures to the Board for the future health of our publications. The Biological Survey of Canada is of special interest to ESC, and this group has undergone major restructuring in recent years. The Board continues to provide input for Biological Survey activities and developments. Promotion of entomological activities in the country has always been important, and not just at the professional level. Support for regional youth encouragement and public education activities is enthusiastically discussed and provided. Issues related to insect biodiversity, society membership and promotion, future meetings, and the never ending revision to by-laws find their places in each meeting. I remember when the first insect stamp was to be issued in Canada, with the essential lobbying and expertise from society members at that time. It's interesting to see that we are still at it. The Society is involved with production of a stamp for the upcoming Joint Annual Meeting to commemorate the 150<sup>th</sup> anniversary of the Entomological Society of Ontario.

One important change I have noted in recent Board meetings is the increasing role of students, now represented on the Board by the chair of the Student Affairs Committee. The Graduate Student Symposium and student contributions to the poster session are regarded as high priority issues for the Society. It was gratifying to see from this year's meeting that undergraduate students will be eligible for prizes as well at future meetings. Clearly the society recognizes the importance in investing in the future of entomology in Canada by supporting students in every way they can.

I should add at this point, it isn't all about being sequestered in a windowless room, working our way through issues weighted upon the Society. The President's Reception is a chance to relax a bit and to get to know other board members in a less formal setting. It is always enjoyable, and sometimes the most unexpected things can happen.

The second part of the Board meeting is very much shorter, while no less important. It is at this meeting the new board members assume their roles, while those who have served in past years relinquish some of their responsibilities. They undertake to review new items that may have arisen in the process of the meeting, as well as tidy up society business before everyone goes their separate ways. It sometimes seems anticlimactic, but at the same time provides an opportunity to relish the challenges ahead.

Although the membership of the Entomological Society of Manitoba continues to hover just under the 100-member mark, some regional societies in Canada are suffering from declining membership and increased difficulties in hosting major entomological events. During a period of temporary decline in membership in these societies, they maintain equal representation in activities at the national level and are guaranteed consideration for regional issues by their participation at the annual Governing Board meeting. I encourage all entomologists in Manitoba to continue in their support for ESM, and please consider becoming an active member of ESC. It is in the interests of us all.

### **A Student's View of ESC Vancouver**

by Alicia Leroux, ESM Member-at-Large

Vancouver? Winnipeg? VANCOUVER! In the middle of my last semester as an undergraduate I embarked by plane for a trip to Vancouver to immerse myself with others who are fond of insects. The setting of Vancouver was welcoming for the weather (it is a bit warmer so I was able to find some more insects for my collection), the ocean view, and the great food close to the hotel. This year the gathering was held over Halloween and costumes were encouraged. It was a little sad not to see a room full of strange insect-related creatures, but those who did contact their creative side were entertaining. I recall *Cimex* sp. (not in the hotel rooms), *Rodnius* sp., a yellow jacket, a minute pirate bug, *Alaus oculatus*, a grasshopper, and OFF spray! Most of us took to bed early that night, even those dressed as nocturnal insects, because the morning after was the student talks. I have not had the \*pleasure\* of presenting in front of my peers on such a large scale and I can imagine what I would feel. The nervousness in my stomach would probably be registering on the seismograph in the Wallace building, the amount of perspiration from my pores would no doubt quickly become equal to the water holding capacity of the ocean and my chest would feel like a building was standing on it. Luckily, I will probably feel this next year in Halifax.

The students did an excellent job of pushing through, in displaying and explaining their research and current findings. This is a good way for students and others to break the ice and talk to each other in the events that followed. To a student it is a bit intimidating to meet many professors who know and love their craft. Well, it is difficult for us to talk to our department Professors; you usually attempt to say what you had practiced as you walked down the long hallway of the department, but when you get within talking distance something terrible happens. The moment you try to speak, words come out, but not in any sensible order or level of comprehension. This is what happens at conferences too, that is until you realize in your name tag there are drink tickets! The Monday night event was the student mixer. Luckily it is not as intimidating talking to fellow students as professors. A part of the student night is the Trivia



Contest. Last year a University of Manitoba Team won, but this year we were uprooted by the University of Alberta whose team name was ‘traumatic inseminators’. We did put up a good fight, there is always next year! Getting to talk to other students is one of the best parts of these conferences. We are all going through a lot of the same feelings of excitement, frustration, and mostly love of our projects.

The following day, after the student mixer, is usually slow going especially if you have a fridge and a b\*\*r store nearby. Students are resilient and bounce back to support the students presenting in the Graduate students Symposium. This symposium is great and it is a privilege for students to present in this session because it is a competition to get in. I was unable to go to the symposium because the morning I returned to Winnipeg I did have an exam that needed some preparation for. From what was relayed back to me the talks were great and well worth the early morning wake-up call. That same day was the poster session. I find making posters fun, but you always find one mistake when you stand back and look at it; of course this is after it is printed. If you are lucky you catch it all before printing, if not you can try to stand in such away that no one would notice. The room the posters were in was slightly small, but did encourage conversation. Shortly after the poster session was the awards dinner or banquet. The food was pretty tasty and served in a timely manner. Best of all was the live band that had a lot of people dancing, showing us why they are Entomologists. There was plenty of time in between events to take a walk down to the ocean and through some of downtown Vancouver and not all of it was done in the rain. If you have the chance to go to an ESC conference I recommend it, because there are people there who ‘get’ why you seem crazy to most of the world.



The Manitoba contingent to the Vancouver ESC meeting included: Lars Andreassen, Rob Currie, Jing Du, Paul Fields, Terry Galloway, Neil Holliday, Bob Lamb, Alicia Leroux, Pat MacKay, Tharshi Nagalingam, Sunday Oghiakhe, Marj Smith, Debbie Suthisut, and Mahmood Iranpour.

## MEMBER NEWS – Reiny Brust at the ESC Meetings

Reiny Brust, member of the ESM and retired member of the Entomology Department at the University of Manitoba, joined his former colleagues during the banquet at the Annual Meeting of the Entomological Society of Canada, as evidenced by the photographs below, taken by Bob Lamb (taken by Bob Lamb).



Reiny Brust, on the right, at the ESC banquet in Vancouver with , from right to left, Rob Currie, Terry Galloway, and Marj Smith. The rest of the table consisted of Lynda Donald Holliday, Neil Holliday, Pat MacKay, Bob Lamb and Brian Galka.



Reiny Brust listening to Rob Currie, with Terry Galloway neighbouring.



Reiny Brust listening to Pat MacKay, with Neil and Lynda Holliday neighbouring.

## **MEMBER NEWS - Patronym to Honour Manitoba Entomologist**

Jose L. Fernández-Triana (University of Guelph) recently described a new species of parasitic wasp (Braconidae), *Apanteles roughleyi*, dedicated to the memory of Rob Roughley, former member of the Department of Entomology at the University of Manitoba and the Entomological Society of Manitoba, and Curator of the J.B. Wallis Museum (ZooKeys 63: 1-53, 2010). The type was collected at Mill Bay, British Columbia on 22 March, 1965, a parasitoid of *Choristoneura* sp., and may ultimately emerge as a significant natural enemy of this economically important group of tortricids. Rob always enjoyed his time collecting water beetles in British Columbia, and in Jose's Etymology for the new species, he was "...sure (he) would be chasing heavenly Dytiscidae beetles right now!"

## **MEMBER NEWS – Prize Winner's Illness**

Sunday Oghiakhe, the winner of this year's Student Paper Prize at the ESM Annual Meeting, took ill on Tuesday January 11 2011, at the end of the Department of Entomology seminar. Sunday had a serious stroke, and was admitted first to St Boniface Hospital, before being moved a few days later to Health Sciences Centre. Sunday is improving and has been enjoying the visits of various members of the Entomology Department and the entomological community. For more information, contact the Department of Entomology.

## **TIGER BEETLE TRIP TO MIDWEST USA -- APRIL 2008**

**By Robert E. Wrigley and Todd Lawton**

**Part 2 of 2 parts: Editors' Note:** For **Part 1** see the previous issue, 37.2, of the ESM Newsletter.

This account describes a collecting trip to six states in the United States from April 18 to 25, 2008, with the aim of capturing spring tiger beetles and other insects at a number of previously visited and new sites.....

We drove west on highway 160, over N la Veta Pass at 2870 metres (9413 feet) elevation and then down again to the San Luis Valley, where we searched for salt flats and *C. fulgida*, and along the sand and mud shores of Mountain Home Reservoir, for the Western Tiger Beetle (*C. oregona*), but were unsuccessful in collecting any specimens. Again the high wind, cloud cover, and habitat alterations were factors working against us. On the way back over the mountains, we succeeded in finding several *C. purpurea* and one *C. limbalis* (at the periphery of its range) in yellow and brown sandy cut banks along the highway. How these beetles ever locate these temporary bare sites at such high elevations is a real mystery, although winds no doubt carry them far and wide, and the beetles are experts at following the roadside ditches for km of unsuitable habitat.

Then heading east on highway 50, we felt the car being buffeted by high crosswinds, and tumbleweeds and pieces of hay flew at high speed across the road. Hearing that severe weather



(tornadoes, heavy rain, and hail stones the size of golf balls) was in the region, we were glad to reach the town of Lamar, SE Colorado, in late afternoon and began looking for a motel. The first thing we noted was the recently smashed door window of the motel, and then we attempted to exit the vehicle. The wind was blowing so hard we could barely push open the doors. Once inside the motel, we looked out and noticed a succession of tumbleweeds careening down main street and piling up in drifts against buildings, as if seeking refuge from the driving wind. Being on the old Santa Fe Trail, the weather gave us some idea of what it must have been like for the pioneers in covered wagons, crossing the desert under such severe conditions.

The following morning we left at first light to find heavy patches of fog hanging low over the landscape, making visibility difficult. Occasional cars and trucks appeared suddenly, even with their headlights on. Then, without any warning, a huge semi loomed out of the mist at high speed, bearing down in our lane. With one of his tires belching angry-smelling smoke, the driver had attempted to pass a car, only to run into a dense fog patch. Todd instinctively pulled to the right, onto the paved shoulder, and all three vehicles passed by without incident. At such times one tends not to dwell on such close encounters, for it just emphasizes how close we came to a catastrophic collision. Todd exclaimed that he couldn't believe a professional driver would attempt such a risky manoeuvre. Just days before we had commented on how we had not seen even one fatal accident on the entire trip – unfortunately a first during our many expeditions. The way people drive at high speed, with only a few metres between cars, results in a high probability of fatal pile-ups, and shows a remarkable lack of foresight.

We made it safely into SW Kansas and turned south just before the unfortunate town of Greensburg – the site, the previous May, of a devastatingly powerful tornado (with unbelievable 322 kph or 200 mph winds) which wiped out most of the town, and which was described by Bob in a 2007 article in this newsletter. True to its name, the town is being rebuilt utilizing many environmentally sensitive innovations, and relying heavily on wind-generated power (but no mention of geothermal heating/cooling).

Our destination for the day was the strikingly coloured Gypsum Hills west of Medicine Lodge – an attractive area of red-clay buttes with multiple layers of transparent gypsum crystals. Our quarry here was one of the most beautiful insects in North America; in fact it is named the Beautiful Tiger Beetle (*C. pulchra pulchra*). With a length of 15-18 mm, its body is a bright coppery red with metallic dark green, blue or purple borders on the head, pronotum and elytra. A denizen of bare soil patches in desert grassland and saltbush flats from Kansas into Mexico, it is noted as a strong flyer, but it often runs rapidly between tussocks of grass. Mimicking the 21-mm velvet ant *Dasymutilla* (which Bob collected here the previous year) in colour, rapid movements, and even stridulation, it hides under bunches of grass and ambushes passing invertebrates. With a two-year life cycle, adults are active from February to April, and then July to September, at this northern edge of its range. We succeeded in capturing a small series, and Todd commented that they were not as abundant at this site this time as in some previous years. Brown and yellow Western Leaf-footed Bugs *Leptoglossus clypealis* (Coriidae) were resting on and buzzing around the bright-green juniper trees, and they frequently buzzed noisily past as we walked by (one even perched momentarily on Bob's white hat). We collected a few specimens for later identification. Here, and at other locations, we saw numerous black spider wasps (Pompilidae), bobbing their abdomens up and down while hunting the ground for spiders; we captured about 6 specimens. We also noted small (10-mm) cockroaches hiding under cow paddies and rocks, which when exposed, they escaped from with great speed.

Later that afternoon we drove to West Sandy Creek on highway 160, west of Attica, which proved to be a productive spot. Although in an area surrounded by agricultural fields, there were plenty of excellent habitats present, with the sandy patches among grass and shrubs commanding our attention. Here we took about 20 beautifully patterned (red with broad white markings) *C. f. formosa*, and as many *C. s. scutellaris*. Other beetles present under debris were four species carabids, including the unusually shaped *Galerita jason* (21-mm long, thin, and with purple and orange body parts feebly connected) and *Pasimachus* sp (32 mm, flattened, and with large mandibles), several black *Dyscinetus* scarabs, and *Eleodes* darkling beetles (Tenebrionidae), which as is their custom, stood high on extended legs and raised their rear end in readiness to discharge a protective secretion. Bob also took the opportunity to pick up (with long forceps) two large and robust Western Black Widow Spiders (*Lactrodectus hesperus*), as well as an attractive bee and several Black Corsair reduviid bugs (*Melanolestes picipes*). An outbreak of this species in 1899 was responsible for the “kissing bug scare” in NE North America. This time Bob spotted two species of snakes – a 120-cm black phase Eastern Coachwhip (*Masticophis flagellum flagellum*) and a young attractively marked, 26-cm, unknown species. Several lizards dashed away too quickly to notice identifying features. It is gratifying to observe so many species (invertebrates, frogs, reptiles, birds and small mammals) packed into surviving patches of a rich prairie community.

We returned to the motel in Medicine Lodge, satisfied that we had a successful day. After dinner, Todd decided to return to the creek site to lay out a string of pit-fall traps for insects, and from 10 to 12:00 PM, Bob checked the mercury vapour lights around town for insects. He thought it likely too early in the season for many species to be out and flying, but the evening remained exceptionally warm at 24 C, and about 150 specimens of over 28 species of beetles and other insects were saved, including the carabids *Colliuris pensylvanica* (red and black, and with an exceptionally long pronotum and head), *Chlaenius unicolor* (really stinky), *Scarites subterraneus*, *Pasimachus* sp, *Harpalus* sp, and *Calosoma marginalis* (likely from the 2007 season, since not emerged yet); the scarabs *Cyclocephala* (possibly *C. lurida*, 50 specimens), a large black June Beetle *Phyllophaga* sp, *Dyscinetus* sp, *Anomala binotata*, the hide beetle *Osmorgus scabrosa*, and the dung beetles *Copris fricator* and *Phaneus vindex* (shining red and green); the fascinatingly shaped Boat-backed Darkling Beetle (*Embaphion muricatum*); two species of stink bugs, including the Southern Green Stink Bug (*Nezara viridula*), eight 16-mm black Black Corsair assassin bugs (*Melanolestes picipes*); and two 15-mm black water scavenger beetles (hydrophilids).

Later that night, spotting a fluttering 30-mm black insect with orange wings on the pavement, which could have been the rare long-horned beetle *Leptura emarginata*, Bob had to make a quick decision whether to capture it with his hand (no net available), since it appeared ready to take flight any moment. He guessed wrongly, proving that sometimes a correct identification is really important! Instead of the longhorn wasp-mimic, he caught the real thing – a spider or tarantula wasp (*Pepsis thisbe*). The sting of pepsis wasps is reputed to be among the most painful of any insect (highest-level 4 on the Schmidt Sting Pain Index), but fortunately the sting on his index finger was not as painful as anticipated, and dissipated in a few minutes, although his digit swelled up, itched, and remained numb for a week. No wonder a stung and stashed spider can't move even after the wasp larva hatches and begins to sip and chew on its helpless prey. After collecting thousands of wasps around North America, it is only fair he get stung once in a while.

With so much stormy weather surrounding us during the expedition, we kept close watch on the weather channel while in motels, and listened to a weather radio on the road, which broadcast the local-area forecasts. Persisting all week were huge storm fronts to the east and west, and a blizzard was forecast for the Dakotas on Friday – the very day we had planned to pass through the area on the way home. South of Mound City, Iowa, we noticed many of the trees had broken branches from high winds the day before, and puddles lay in the ditches and fields. Then Friday afternoon, we came to a dead stop on the highway, along with hundreds of motorists and truck drivers – Interstate 29 was closed at Watertown due to a blizzard that deposited up 25 cm of snow. Motels were filling up quickly, but we finally found a room at a truck stop (We are used to ‘roughin it’ in seedy motels.). Even the next morning, no one seemed to have any idea when the highway would re-open. About 2:00 PM, the crowded town suddenly evacuated, evidence that we were now free to continue on our way north and home.

This eight-day trip produced 13 species of tiger beetles (plus several dozen species of other insects) – far fewer than the 31 species of tiger beetles recorded on our April 13-29, 2006 driving trip to southern California and Washington. This was reflective of collecting in the ranges of many other species over 17 days (see ESM Newsletter Vol. 33(3), 2006 and Vol. 34(1), 2007). Our expedition completed, Todd left two days later for another collecting trip to the West Coast and Prairie Provinces, mainly for spring carabids (cicindelids and Scaphinotus spp), while Bob began preparations for a 21-day trip in July south to Texas, Arkansas and Missouri.

We feel fortunate to be able to pursue our field trips, to learn about arthropod ecology and habits, as well as to enjoy the wonderful variety of ecosystems and to sample local fare. As in the past, most of the prepared specimens will find their way into the J.B. Wallis Museum of Entomology at the University of Manitoba. Bring on the warm weather.

One last note. For those interested in pursuing the study of tiger beetles, there are now two great books available at low cost (under \$15 at Amazon.com) – A field guide to the tiger beetles of the United States and Canada (D.L. Pearson, C. B. Knisley and C.J. Kazilek, 2006) and Tiger beetles of Alberta (J. Acorn, 2001).

#### LIST OF TIGER BEETLES

Bronzed Tiger Beetle (*Cicindela repanda repanda*)

Western Tiger Beetle (*Cicindela oregona guttifera*)

Sandy Tiger Beetle (*Cicindela limbata limbata*)

Big Sand Tiger Beetle (*Cicindela formosa generosa*)

Cow Path Tiger Beetle (*Cicindela purpurea audubonii*)

Splendid Tiger Beetle (*Cicindela splendida*)

Green Claybank Tiger Beetle (*Cicindela denverensis*)

Common Claybank Tiger Beetle (*Cicindela limbalis limbalis* and *Cicindela limbalis sedalia*)

Beautiful Tiger Beetle (*Cicindela pulchra pulchra*)

Crimson Saltflat Tiger Beetle (*Cicindela fulgida fulgida*)

Festive Tiger Beetle (*Cicindela scutellaris lecontei* and *Cicindela scutellaris scutellaris*)

Blowout Tiger Beetle (*Cicindela lengi lengi*)

Oblique-lined Tiger Beetle (*Cicindela tranquebarica kirbyi*)

Total 13 spring species

## MEETING ANNOUNCEMENTS\*

### Annual Meeting of North Central Branch of Entomological Society of America

Radisson University Hotel, Minneapolis, MN, March 13-16 2011

### Annual Meeting of the Entomological Society of Manitoba

TBA

### Joint Annual Meeting of the Canadian and Acadian Entomological Societies

Westin-Nova Scotian Hotel, Halifax, NS, November 06-09 2011

### 59<sup>th</sup> Annual Meeting of the Entomological Society of America

Reno-Sparks Convention Centre, Reno, NV, November 13-16 2011

\*If you have a meeting you would like listed in the next ESM Newsletter, contact the editors with the details by April 01 2011

## ESM EXECUTIVE 2011

POSITION	PERSON	EMAIL ADDRESS
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<b>Proceedings Editor</b>	Terry Galloway	<a href="mailto:terry_galloway@umanitoba.ca">terry_galloway@umanitoba.ca</a>

## ESM COMMITTEE CHAIRS 2011

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