

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

Spring seems to be literally 'springing' into summer. We're staring June in the face – where did April and May go? And here I am preparing to send out my first Newsletter issue as Co-Editor along with Mahmood. A big thank you to **Pat MacKay**, who has



stepped down after 8 years as Co-Editor. Pat made the transition easy for me, by passing over a list of ESM Members who promised contributions to the Newsletter, and they have all come through. There are the regular items: the **President's Message** and **Upcoming Meetings**. We also have a word from the **ESC Membership Committee** to tell you of the advantages of joining the ESC, news about the **Wallis/Roughley Museum of Entomology**, the "**Hanging of Dr Holliday**", and new members **Alexandra Grossi** and **Matt Yunik** tell about themselves. We also have fascinating insect collecting adventures from **Todd Lawton** and **Bob Wrigley**. Also, the solution to Marj Smith's previous **crossword**.

We really do have an enthusiastic membership – we already have a contribution for the next issue! We'd love to receive news of your arthropod adventures/research/meetings, etc.

Marjorie Smith & Mahmood Iranpour

Report from the President

Greetings, hope everyone had a great winter. Now is the time of year when most of us switch from looking at dead insects to spending time observing live ones again. With our beautiful mild spring, many insects made their appearance early this year. One of the first insects I encountered this April was *Aglais milberti* (Milbert's Tortoiseshell butterfly) fluttering around St. Vital Park. Something else interesting I observed was large groups of Corixidae on the banks of the Red River during the first week of April (see photo).



On April 18th, we had our New Members Social at the Granite Curling Club. Kathy Cano spoke about the training and use of bed bug detecting dogs. During her presentation she showed us videos of live bed bugs and specially trained dogs sniffing the critters out. Thanks Kathy for the interesting and informative presentation. If anyone is interested in speaking at one of our social events, we would be pleased to have you present your research; you can contact me or another committee member for more information.

Coming up soon is the 68th annual meeting of the ESM, scheduled for October 12th and 13th. I am especially excited to announce the topic of this year's meeting is invertebrates in Lake Winnipeg watershed. See you all then.

Happy field season,
Lisa Capar
President, ESM

To Members of the Entomological Society of Manitoba,

On behalf of the Entomological Society of Canada (ESC), we are writing to ask you, as members of the Entomological Society of Manitoba, to consider becoming members of the Entomological Society of Canada.



The reasons for joining the ESC are many, and as varied as the entomologists across our country, but include: a chance to share your entomological interests and knowledge with national colleagues, whether at our annual joint meetings or via our expanding web-based communications (*e.g.*, ESC website, the *Bulletin* and new online submissions to and distribution of our journal); opportunities for new project discovery and development with other Canadian entomologists; opportunities for camaraderie with new and old colleagues/friends and the many career benefits to be derived from building such networks; achieving the satisfaction of helping other entomologists, or budding entomologists (*i.e.*, our youth); opportunities for professional development and national experiences through participation in ESC committee work or serving in other capacities within the Society. In recent years, membership in the ESC has declined somewhat, although the Society remains strong and vibrant. With a need to maintain this vibrancy, and to continue to build on our long, proud history as a national scientific society, it is critical for the ESC to attract new members from among those with an interest in entomology and entomological sciences, professionals and amateurs alike, from across Canada.

Other tangible benefits of becoming a member of the ESC are outlined on the Society's website, <http://www.esc-sec.ca> (see the JOIN pull down menu); some of which are associated with our affiliated journal, *The Canadian Entomologist (TCE)*. An exciting, recent change is that our journal has a new Editor-in-chief, Dr. Chris Buddle, McGill University, and is now being published by the not-for-profit, international publisher, Cambridge University Press. So after 144 years of publication of *TCE*, we are joining the modern, digital age of publishing with confidence, while remaining true to our roots and mission as a Society. Moreover, ESC members will continue to have free electronic access to *The Canadian Entomologist*, to all of its back issues, and to the *Memoirs*; plus members will receive a discount on books from Cambridge University Press.

So we sincerely hope that you can envision yourselves as part of the ESC and its energetic emergence to the next stage of development. The ESC continually reassesses the services that it offers to its members and welcomes suggestions to improve member benefits.

Best regards,

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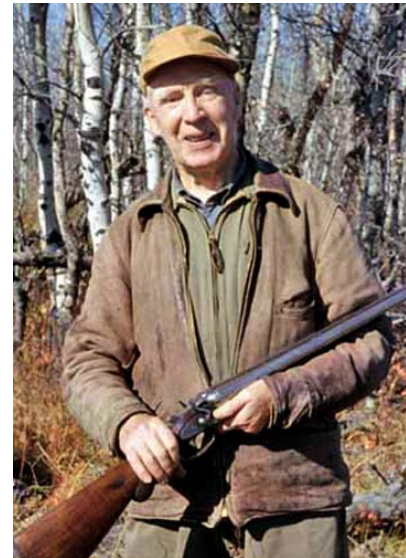
Dedication of the J.B. Wallis/R.E. Roughley Museum of Entomology

On 27 March, we held a small informal dedication ceremony for the newly named J.B. Wallis/R.E. Roughley Museum of Entomology (WRME). This ceremony was very much like the last dedication, for the J.B. Wallis Museum of Entomology, on 22 September, 1988. Both were held in the second floor hallway of the Animal Science/Entomology Building at the University of Manitoba, outside the Museum entry, but 1988, Rob Roughley presided over the gathering. Rob was enthusiastic about the future of the Museum; he had big plans. Largely due to Rob's efforts, grant support was obtained to allow development of the first bar-coded database system for an entomological collection in Canada, and for expansion of our facilities to accommodate growth, to where the museum collection today is among the largest in Canada.

About thirty family and department members, friends and colleagues gathered to celebrate the contributions of these two outstanding entomologists, both of whom had a special interest in beetles, and especially water beetles. Terry Galloway (Associate Curator) and Barb Sharanowski (Curator) each said a few words about Rob, JB and the Museum and afterwards people had an opportunity to tour the facilities and appreciate the recent changes initiated by Barb Sharanowski, Gwen Band (Data Entry Technician) and Phil Snarr (Museum Technician). Carol Galloway provided the cake served in the Library, a focus for people to gather and chat about the museum. The photos below were copied from the hard drive of Rob Roughley's laptop; unfortunately, we are unable to provide credits for them. If anyone happens to know who took these photos, please contact us.

John Braithwaite Wallis ("JB") 1877-1962

J.B. Wallis was born in England in 1877 and moved to Canada in 1893. He worked on Manitoba farms before attending normal school, eventually becoming a teacher and assistant school superintendent in Winnipeg. He was an amateur entomologist with a passion for beetles, and was an authority on tiger beetles and water beetles. He worked in our department after his retirement, making major contributions to the organization and content of the insect collection. These contributions were acknowledged when our collection was officially dedicated in his honour, the J.B. Wallis Museum of Entomology (JBWM) at an informal ceremony on 22 September 1988.



Robert Edward Roughley
(1950-2009)

“Have net will travel.”

Rob Roughley was born in Limehouse, Ontario in 1950 and graduated from the University of Guelph in 1974 with a major in Entomology. Following his passion for taxonomy, systematics and biogeography, he completed his M.Sc. (Guelph - 1976) and Ph.D. (Alberta - 1983) investigating his beloved dytiscids. He joined our department in 1982 and assumed curatorship of the museum, which immediately began to grow from about 50,000 specimens at that time, to an estimated 2,000,000 today. Largely due to his efforts, grant support was obtained to allow development of the first bar-coded database system for an entomological collection in Canada, and for expansion of our facilities to accommodate growth. The name of the museum was officially changed to the J.B. Wallis/R.E. Roughley Museum of Entomology (WRME) in May 2011, and was dedicated at an informal ceremony on 27 March 2012.



“The Hanging of Dr. Neil Holliday”



Out with the old, in with the new. Rob Currie and the retiring Neil Holliday enjoy a celebratory handshake.



Rob Currie, the current Entomology Department Head 'Hangs' his predecessor Neil Holliday in the Entomology Library.

Bug-sale leads to the purchase of a new insect imaging system for graduate students

by Gwen Band , WRME Database Coordinator

In December 2011, the Department of Entomology had a unique sale of framed insects in the Entomology library. The department was “swarmed” with bug-loving customers looking to purchase the perfect art-piece or a distinctive Christmas gift for a budding entomologist. The framed insects were donated to the Wallis-Roughley Museum of Entomology (WRME) by the family of Patrick Dean Terenchuk, 1957 – 2009, a local insect enthusiast. Patrick was born and raised in Winnipeg, and for most of his life he reared and collected many local specimens from around Winnipeg, southeastern Manitoba, and in later years, species from around the world. He had a special interest in Lepidoptera, and framed the majority of his collection. There was a “bee-hive of activity” during the sale with the local news arriving along with the general public and University of Manitoba staff and students. All proceeds from the sale were gifted to the Department of Entomology Graduate Student's



Association (DEGSA) to purchase a new insect imaging system. In addition to the funds raised by this sale, matching funds were offered by the Faculty of Agriculture and Food Sciences Endowment Fund. The new imaging system, to be purchased this summer, will allow the students to produce publication quality images of insects necessary for research in insect taxonomy, ecology, behaviour, and physiology. The department would like to extend a special thank-you to all the Entomology staff and students for the "behind the scenes" effort to set-up and staff the "insect store." The department also

extends sincere appreciation to Patrick Dean Terenchuk and his family for this generous donation. An honorarium plaque in Patrick's memory and his amazing display of *Morpho* butterflies can be viewed in the Wallis-Roughley Museum.

New Members

Alexandra Grossi

I am originally from Birr, Ontario which is 15 minutes north London, and no it is not cold there despite its name. My journey into entomology like many others began with a different career field in mind. Mid way through high school I decided that a career in forensic science sounded like fun. I always loved solving puzzles and dead things didn't gross me out, so I thought this was a good career choice. I decided to go to Trent University in Peterborough Ontario, and get a Bachelor of Forensic Science. This program was very structured and left only three elective credits. These three credits are what lead me to entomology. The first entomology course that I ever took was forensic entomology. I thought this was the coolest course ever. I actually ended up being a TA for the summer forensic entomology course through my placement class. The summer forensic entomology course was even better than the winter version because we got to put dead beavers and coyotes out behind the DNA building to compare decomposition rate when you compare shade verses sun. I then ended up taking the other two entomology courses that were offered at Trent, biology of insects and medical entomology. In the last year of my Bachelors I realized that the forensic science job market especially in Canada is very small and that I would have to move to either Toronto or Sault Saint Marie to get a job. This led me to think that maybe I should continue on with school and get a Master's degree. I started to look into different schools and inquired about different programs, when I got offered my current research project, to study lice on anseriform birds. This involved dealing with dead birds, and I thought if I was okay with dealing with dead people then dead birds would be no problem. That is how I ended up currently at the University of Manitoba studying the ectoparasite infestation parameters of anseriform birds.



Matt Yunik

I am currently a MSc student under the direction of Dr Terry Galloway and Dr Robin Lindsay in the Department of Entomology at the University of Manitoba. I started my program last April after completing an Honours Degree in Zoology with a minor in Microbiology from the U of M. My research is geared towards the prevalence and diversity of bacterial symbionts and the ecology of everyone's favorite critter, the American Dog Tick (*Dermacentor variabilis*). My attraction to entomology first arose from my interest in parasitology during my undergraduate career. My first job in this



field was as a summer student technician at Cadham Provincial Lab in the Departments of Serology and Parasitology. Among other things, I was trained to screen sentinel flocks for Western Equine Encephalitis Virus and test mosquitos for West Nile Virus. Later, I worked for the City of Winnipeg Insect Control Branch for three consecutive summers assisting with management of the city's nuisance mosquito population.

Although, I was born and raised in Winnipeg, I maintain that any reason to get out of the city is a good one. As a result, my favorite hobbies are outdoor activities. During the non-winter months my spare time usually gets partitioned between fishing, hunting and hiking (usually with a tick drag in hand just in case). I am also in the process of completing my SCUBA certification and hope to get some fresh water dives in this year.

Collecting Arthropods in the American Southwest: Preview

by Robert Wrigley

From July 11-23, 2010, three Amigos -- Robert Wrigley (from Winnipeg, Manitoba), Shirley Preusentanz (Springsteen, Manitoba), and Stephen Lenberger (Florida) travelled through the Mohave and Sonoran deserts and mountains of southern Nevada, southern California and southwestern Arizona to study and collect arthropods, and enjoy the rugged scenery of this remarkable part of the Southwest. This article covers our travel itinerary, highlights our experiences, and describes many of the several hundred species we were able to collect and identify. Our expedition began by flying to Las Vegas, for "the night life," -- not the shows and casinos, but the great diversity of critters that we knew would come out at night, and other species active during the day. We rented a car and headed west towards Red Rock Canyon and the Humboldt-Toiyabe National Forest, greeted by temperatures in the 40s C. Each day we stopped at a number of habitats to see what insects, spiders and other arthropods we could find, and it soon became clear that in the great heat and aridity, we had to locate flowering plants and creeks. After finding a motel each evening, we recovered our energy with a dinner, and then headed out for dusk and night collecting at lights, or by searching with head lights. A few days later we



Shirley Preusentanz, Stephen Lenberger and Bob Wrigley at Green Valley, Arizona.



Red Rock Canyon in the Mohave Desert of Nevada. The creek at the base of the mountain attracted a large diversity of bees and wasps.

were excited to spend pleasant hours examining equipment, books and insect specimens at Bio-Quip in Rancho Dominguez, California, and then continued west to the Pacific coast, but were frustrated by not being able to access the beach communities due to endless housing developments, military reserves and parks. While we were gathering some interesting specimens at every stop, much of the time to this point we could not describe collecting as really productive. Working our way southeast, we travelled from desert to mountain tops and then back down into desert again. One exceptional site was the famous Algodones or Imperial Dunes, where several Hollywood classics were filmed. Tarantulas and darkling beetles were out at night in great numbers. The Salton Sea, while oppressive with the heat and fish kill, was still fascinating to view, and then we entered Arizona just in time for the start of the annual monsoon season. As if we had crossed some imaginary line, arthropod species diversity and abundance suddenly became outstanding. We centered the remainder of our time at Green Valley, Madera Canyon and Rio Rico, near the Mexican border. Everywhere we looked we came up with dozens of colorful and large species new to us. Throw in a couple of rattlesnake encounters, and meeting other entomologists like insect field-guide author Eric Eaton, and it was an expedition to cherish forever. I hope the detailed report in the ESM Field Trip website (<http://home.cc.umanitoba.ca/~fieldspg/>) will give you a sense of these wonderful places and faunas, and explain why we cannot wait to visit these deserts and mountains again.



Ocotillo-Mesquite-Desert Broom grassland habitat of the Red Velvet Mite (*Dinothrombium*), Large Grassland Tiger Beetle (*Cicindela obsoleta*), Sooty-winged Katydid (*Capnobates fuliginosus*), Green Click Beetle (*Chalcolepidius smaragdinus*), and the ground beetle *Pasimachus obsoletus*. Madera Canyon, Arizona



Stephen stalking bees and wasps in a field of perennial sweet pea (*Lathyrus latifolius*).

Thoughts Collected: Reflecting on an Entomological Adventure in the United States

by Todd Lawton

In mid May of 2011 I left Manitoba's winter-weary trees behind for the already lush forests of Arkansas and West Virginia. My main objective was to continue the slow process of building a collection of *Scaphinotus*, (Carabidae), frequently rare beetles that inhabit damp forestland, often at higher elevations. A few authors have commented that a lack of available specimens has made research on many species of *Scaphinotus* difficult. I find the challenge rewarding. While they are

sometimes easy to find, under driftwood at the edge of prairie cattle ponds, others may be in snarls of scarcely penetrable cloud forest on steep rocky slopes. Of course some species are not actually rare, they are simply rare in collections, the result of being poorly understood and subsequently seldom collected.

I hit the road following an overnight shift. A side trip to collect *Cicindela pulchra* and *Calosoma obsoletus*, (Carabidae), in South Dakota was cancelled at the last minute due to predicted rain. *C. pulchra*, large and dark metallic red, is one of the most beautiful North American tiger beetles and it's exciting that this rare species has been recently documented at several northern US localities. I would find out later that these populations have been over-collected since their discovery; it's probably better that I didn't visit South Dakota.



Bait trail site in virgin red spruce forest, West Virginia. Habitat of *Scaphinotus viridis*, *S. valentinei*, *S. ridingsi monongahelae*, *Sphaeroderus stenostomus lecontei* and *S. canadensis canadensis*.

I passed through Joplin, Missouri, hours before a devastating tornado struck and killed over 150 people. I had considered camping there that night but it seemed that fate had other plans for me, weathering other storms, both literally and figuratively.

By evening I was in Arkansas, quickly setting up camp on a favourite Ozark mountain and preparing bait for night collecting. During a night hike at that site a month earlier, I got caught a couple miles from camp in a vicious storm that dumped between four and eight inches of rain and hail in an hour! Taking some comfort in the dollar store rain poncho I had stuffed in my pack, I set out at dusk under cloudy skies and hoped for better conditions. On the north slope my bait quickly brought in two *Scaphinotus* species as a wind storm intensified. Soon the tree tops were being tossed in a riot of wild wind. Three huge trees blew down over the trail while I was hiking. I scrambled for cover when I heard, and felt, the first crashing boom. I thought that a boulder had sheared from the mountain and was cascading through the forest! But I held my ground, waiting until I was sure that beetle activity had ceased before retreating. I managed to make camp minutes before the rain and hail started; the storm was as intense as the one in April and I was relieved to not be drenched the second time! I found out later that this system had generated at least one local tornado; it was much more powerful than tropical storm Lee, which soaked me in the mountains of Georgia in late summer.

My pitfall traps in the Ouachita Mountains to the south yielded several *Scaphinotus* species, including *S. cavicollis* and *S. parisiana*, a pleasant surprise. Unfortunately many traps were flooded and had to be rebuilt.

I was glad to finally witness the emergence of the "Great Southern Brood," the 13 year cicadas. I found *Magicicada tredecim* near Nola, Arkansas and *M. tredecassini* on the outskirts of Nashville, Tennessee. A side trip into Kentucky failed to produce any *Scaphinotus* despite many

rocks turned and a bait trail that satisfied only the local raccoons. Sadly I witnessed a trio of fishermen needlessly kill a large Copperhead on the trail. One of these good ole boys attempted to explain how dangerous these snakes can be but I barely understood a word, his accent was as thick as molasses. I was later informed by a forest ranger that applying turpentine to a Copperhead bite is a local remedy for large dogs. This probably explained the absence of dogs on the trails.



Scaphinotus viridis in West Virginia.

I spent a week in the mountains of West Virginia and enjoyed clear skies everyday, (a nice change!) During daylight hours I set insect traps and scouted for areas of suitable habitat. At night I laid out bait trails and sipped lemon rum. I was well rewarded with two sizable series of *S. viridis*, perhaps the most attractive North American *Scaphinotus* species, as well as a nice selection of other Carabidae.

Over the course of the two week trip I used over 150 pounds of bananas and several cases of beer to produce varying bait mixtures; at times these were almost as tempting to me as they were to the beetles and raccoons! Many counties in Arkansas are “dry,” and it can be a real challenge to find beer. Explaining that I use cheap brew as insect bait gained skeptical looks wherever I went; I felt like a teenager with borrowed ID.

As always, there were pleasant surprises on the road; I captured several Elderberry Borers, *Desmocerus palliatus*, a large and very attractive purple and yellow beetle, as well as many other Cerambycidae on roadside flowers at high elevation. I found a lovely population of *Cicindela formosa pigmentosignata*, a southern tiger beetle, near Little Rock, Arkansas.

I returned a month later to check and retrieve my pitfall traps. Besides the target species, (including several *Sphaeroderus schauimi*, (Carabidae), which are rarely collected), I was surprised to find a nice series of Antelope Beetles, both *Dorcus parallelus* and *D. brevis*, (Lucanidae), in my Arkansas sets. Despite the onset of a crushing mid-summer drought many beetles were active near permanent streams. Unfortunately an enterprising raccoon or opossum had learned to fish beetles out of traps by slipping his paw through the chicken-wire covers!

I also spent several days collecting insects in Florida which, for whatever reason, always gets weird. One evening before I could move onto a salt flat to set up my black light I had to wait for a young man to exhaust his ammunition for an AK47 and various other rifles and handguns. The following night a large and very intoxicated crowd gathered at the same spot to watch a fireworks display across the bay; fortunately dozens of giant water bugs, (Belostomatidae, some reaching 65 mm), were flying in to my black light and I think these “toe-bitters” kept the spectators away from my equipment! One afternoon there was a harmless, casual encounter with a large Cottonmouth at a trap site. And, while on the gulf coast, (not golf course), I drove for hundreds of kilometers each night seeking large beetles at lights, usually not finishing until 3 a.m. On my second-last night I discovered the best spot was only 30 yards from my tent, on the campground miniature golf course! Large, sun-dried specimens of Hercules and Ox Beetle, (*Dynastes* and *Strategus*, Scarabaeidae), had been gathered from the brightly illuminated gravel pad and propped-up on the astroturf fairways as obstacles.

MEETING ANNOUNCEMENTS*

The 23rd North American Prairie Conference (NAPC)

University of Manitoba, Winnipeg, Manitoba, August 6-10, 2012

<http://www.naturemanitoba.ca/?q=news-articles/north-american-prairie-conference>

International Congress of Entomology

Daegu, South Korea, August 19-25, 2012

Annual Meeting of the Entomological Society of Manitoba

Winnipeg, Manitoba, October 12-13, 2012

Joint Annual Meeting of the Entomological Societies of Canada and Alberta

Edmonton, Alberta, November 04-07, 2012

Joint Annual Meeting of the Entomological Societies of Canada and Ontario

Guelph, Ontario, 2013

*If you have a meeting you would like listed in the next ESM Newsletter, contact the editors Marj Smith and/or Mahmood Iranpour with the details by 31 August 2012.

Solution to “Insect Activities”

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ESM ANNUAL MEETING

12 October 2012 at the Freshwater
Institute

&

13 October 2012 at the Department of
Entomology, U of M

**The meeting’s theme will deal with
aspects of the Lake Winnipeg
Watershed**

Scientific Program Committee:

Terry Galloway (Chair), Dave Rosenberg,
Don Cobb, Lisa Capar, Joel Gosselin,
Marjorie Smith

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