



# WILLIAMSONIA



Vol. 3 No. 3

Summer, 1999

A publication of the Michigan Odonata Survey

## DSA Meeting Report

Mark O'Brien

This year's Dragonfly Society of the Americas annual meeting was held at Paul Smith's College near Saranac lake, New York, in the Adirondacks from July 8-10. There was an impressive turnout of DSA members from all over North America, and I had a chance to meet many people for the first time. Nearly 50 members attended, including Ethan Bright. My wife Adrienne and daughter Marjorie also accompanied me this time, so Michigan was pretty well represented! Unfortunately, for all of the hot weather we endured in July, those two full days at the meeting were cool and cloudy, and one was rainy! We managed to visit some really nice habitats such as bogs, fens, and rivers. Ethan picked up larvae of *Boyeria grafiana*, *Ophiogomphus colubrinus*, *aspersus*, and *mainensis*, in the shadow of the High Peaks region, and he had pretty good success stream sampling. As far as collecting adults, that part was for me, disappointing. I grew up not 60 miles from where we were staying, and I don't recall having July weather like that! Nick Donnelly, the organizer, was jokingly blamed for the weather, but I am sure the "Donnelly Effect" wore thin on him by the end of the weekend.

I enjoyed the comraderie of the other Odonata enthusiasts, and met people from British Columbia and Prince Edward Island, who might have thought the weather was "normal." Adrienne and Marjorie were able to be tourists, and had a great time in Lake Placid and Tupper Lake, while I was slogging through wet bogs and getting in over the tops of my waders along the AuSable River. I think they got the better deal this time around. One evening we were treated to several slide-shows from travels in Asia and Australia, and the photos of those species were really stunning. Neon-blue wings are really something on a damselfly.

Sharing ideas with other odonatologists is one of the best aspects of the DSA meeting, and in that regard, I really had a good experience. Nick and Ailsa Donnelly picked a great spot for the meeting. Next year's meeting will be held in British Columbia, which if one can go, would be a wonderful place to visit. I am hoping that the MOS will be able to sponsor a DSA meeting in Michigan within the next few years. Hopefully, we won't have two days of rain!



## Late Summer Musings

Mark O'Brien

As I sit down and write various bits for this issue of the newsletter, I am struck by the thought, "Where has the summer gone?" This is a familiar theme for all of us that have laid out plans for a summer, only to realize that there are not enough days in the season to do all the things that we had thought we would do back in March. Maybe I did not get out in the field one day a week as planned, but I did enjoy those days I spent in the wetlands. Yes, dragonflies are a lot of fun, and there are so many great moments to reflect upon. Maybe it was watching a *Hagenius brevistylus* adult emerging along the AuSable River from a leaf-shaped larval skin. Who could predict what the adult would look like based upon that odd-looking larva? Perhaps it was watching hundreds of American rubyspots jostling for position amongst the bushes along the Huron River, or finally netting a monster *Macromia taeniolata* as it cruised by like some emerald-eyed cruise missile. There was the satisfaction of tramping through the bog mat at Sayles Lake where Ethan and I watched dozens of minute *Nannothemis bella* adults flit through the sedges. Another fine moment was seeing a *Libellula incesta* and *L. cyanea* perched about 8 inches apart on the same reed. I am sure many of the readers have their own favorite moments of dragon-watching.

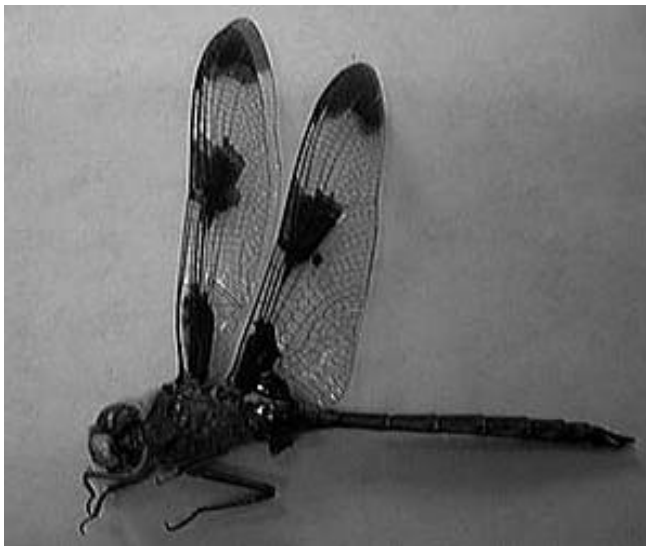
We watch dragonflies and labor to obtain specimens for the MOS because it's fun. Not only are we curious about how these winged marvels live, we attach significance to their existence. How many people do you know that get excited about seeing a new little damselfly? How many do you know that will sit or stand for over an hour to watch the intricacies of dragonfly politics on a pond? Even if you are a long-time collector/observer, taking a few moments to actually watch the animals go through their daily routine is still very rewarding, whether you are watching an *Ischnura verticalis* daintily plucking aphids from a plant stem, or a *Plathemis lydia* chasing potential rivals away from his perch.

Of course, it's a great thrill to see a species you have never seen before, and I really envied Stephen Ross this past May

as he kept me updated on his encounters with *Williamsonia lintneri*. With the ease of e-mail, such information no longer gets tucked away in someone's field book, and of course, with our MOS community, sharing our observations becomes much more routine. One thing is for sure -- don't take anything for granted. Just because you may feel new at the game, doesn't make your observations or participation any less important. Because you are looking at dragonflies with "fresh" eyes, you may see behaviors that others may have missed, or simply ignored, thinking that someone else has already reported it. That's the fun of natural history -- serendipitous events can really add to our overall knowledge of a species.

As I look at our list of county records, one county in the UP really stands out as bereft of collecting. Baraga Co. is the least-collected UP county, and one person collecting there in mid-June to mid-July would probably haul in a couple of dozen new county records without working up much of a sweat. With the forestry research station in L'Anse, there must be some specimens lying in a collection somewhere. Part of the reason Baraga is under-collected must be that it's not usually a destination -- it's between Marquette and Houghton, and there are not a lot of main roads there. There is no lack of great habitat, though. I encourage anyone to go and collect there!

One useful approach to sharing observations has been the Odonata mail-list run by Dennis Paulson in Seattle (dragonflies@listbot.com). When anybody asks a question, there are sure to be a half-dozen replies or more, and I have learned a great deal about what others are doing in the field. If you have not subscribed to that list, try it out. It really has been quite informative!



*Epitheca (Epicordulia) princeps*

I am working on the next edition of the MOS Surveyor's Handbook, and it will likely be ready for the year 2000

collecting season. I had hoped to finish it this spring, but I have been busy with many things. I did not want to just reprint the 1997 version, since it is too out of date, and I want the next version to incorporate as many useful features as possible. Gone will be the old dot-maps, and in will be a spreadsheet of county records. There will also be better keys and more assistance for the novices. I'll also try to incorporate photographs of some of the species - Perhaps one for each genus -- I'll let you know how that works out.

## THE TOTAL AMATEUR'S ADVENTURES AT THE FIRST SYMPOSIUM OF THE INTERNATIONAL DRAGONFLY SOCIETY MEETING AT COLGATE UNIVERSITY

Beverly Shepard

Papers presented at the meeting included an interesting mix of subjects - showing the diversity of interests possible in the study of Dragonflies - informative for all. For an amateur, like me, if nothing else, it was most interesting to become aware of the variety of interests possible in the study of Dragonflies. Let me mention, for those beginners, like myself, who attend this type of meeting - be sure you take along a field guide or two. The value is that you can inform yourself via the pictures & general information of the little fellow who will be discussed in the next paper.

How very well organized & how well run the entire meeting was - little unexpected problems were handled with panache by the Co-Chairs Dr. Victoria McMillan & Janet Rith-Najorian. Multiple complements to these ladies - they did a really fine job. Assisted by members of both families, two Staff members & a couple of students all things were handled with courtesy and class.

Well done too, were the evening meals which gave the foreign guests a view of dinners in the United States - one evening it was a Thanksgiving Day dinner, with all the trappings, a Southwestern dinner with its Mexican influences. And last but not least, a Square Dance with a real caller & the fiddlers et al.

Colgate University - we're talking class & style in the Ivy League manner. Many of the buildings are built with stone from their own quarry atop the hill on the campus. All the buildings are charming inside & out regardless of the building material.

The trips included during the week were much enjoyed. To the Rogers Environmental Center - to Cornell with stops along the way at state parks & wetlands. Even the breakdown of the buses, at about midnight, on their return from dinner at a winery was handled with good humor by all. Folks were about the campus with their nets which has

a stream running thru it & a very large pond in front of the Student Union. Nets went along on off-campus visits.

I so enjoyed chatting with folks from the various countries, learning about their attitudes, sharing mine & explaining for them, some of our funny ways.

I did, I hope, some good Nature Photography, my first love, I also did some shots of the Campus & its buildings, but no people- not my thing. I don't do windows & I don't do people.

My plan was to camp at a State Park but since they all were more than an hour & a half away - I camped on the Campus! My little Coleman tent trailer & I had a lovely site behind a small attractive stone House, under the trees - a dead end spot- no traffic or people traveling by- quiet & private - loved it!

I mention too, Faculty, Staff & Students have no need to buy or get involved with cardio-vascular exercise equipment - no matter where you needed to go - it was uphill! I mean San Francisco type hills!

It was a great meeting in all respects.

## Corrections On News Articles About Deformed Dragonflies

Wayne Steffins

(Earlier this year, several syndicated news articles appeared about deformed dragonflies in Minnesota)

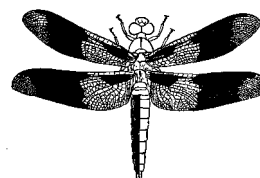
I find it interesting that there is another fellow in Minnesota with my name who studies dragonflies! ;-)

Seriously, there are several news articles floating about on this story, some better than others. The one that was posted on the newsgroup is one of the better ones, with the exception of the reference to frogs that I feel is inappropriate. I just want to clarify some things that people may see in other articles. These articles seem to mutate as they pass from one news source to another, each time becoming more sensational. In one of the articles I am a Minnesota DNR Zoologist, but my paycheck and health benefits dont bear that out.

Most of the abnormalities that we saw were of a relatively "minor", yet easily noticeable nature. There were no extra limbs or eyes, or legs and organs hideously growing out of places that they shouldnt be growing (eek!). Most of what we saw were things like a missing lateral or dorsal hook, asymmetrical or twisted hooks, spines or terminal appendages, asymmetrical mouthparts, antennae with segments that were too long, short, or wide. There were only a small percentage of specimens from the Rainy River that had what I considered "severe" abnormalities such as grossly

misshaped mouthparts. I saw two specimens that each had a severely malformed leg, and one that had an asymmetrical abdominal segment with an extra, misshapen lateral spine. These were the exception however. What concerned us most was the constant rate of occurrence (about 4-6%) of the less severe abnormalities at two sites on the Mississippi and all along the Rainy River. We collected several thousand exuviae on the Rainy River, and the results were similar at most sample sites.

One of the articles floating around mentions that we found abnormalities at 4 sites on 3 other rivers too, but they fail to mention the circumstances. Two of those sites were at or near the rivers' mouths where they enter into the Rainy River. The Rainy River has a decades-long history of very serious pollution problems, and it had never been sampled before. The third were very minor abnormalities from a very small sample, and several larger samples on that river (the Cloquet R.) showed no abnormalities. The fourth site had only 1 minor abnormality out of 78 specimens (1.3%), certainly no cause for alarm. In other words, the problem, whatever it is, does not seem to be a widespread one like the frog problem but I guess only time and more sampling will tell.



## RESOURCES

### NEW PUBLICATIONS AVAILABLE

#### Checklist of North American Odonata

The Slater Museum has just published A Checklist of North American Odonata, by D. R. Paulson and S. W. Dunkle. This 86-page document includes all 435 species presently recorded from north of the Mexican-US border, with scientific and English names, original citations, etymologies of both scientific and English names, type localities, and a brief description of distribution. Complete literature citations are included for all original descriptions.

This publication is available from the museum for \$7.50, which includes postage and handling. If you want a copy, send a check to Dennis Paulson made out to the University of Puget Sound.

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## DRAGONFLIES - Behavior and Ecology of Odonata

(The following mini-review is from Dennis Paulson's post to dragonflies@listbot.com)

The long-awaited book on dragonfly behavior and ecology by Philip S. Corbet has been published, I have spent hours browsing in my copy, and I can only describe it as awesome. The author's encyclopedic command of dragonfly biology is fully apparent in this volume, and it will be the standard reference for decades to come. Look up a subject of interest, discover what is known about it, and you'll know just where to start a new research project. 802 pages, 96 color photographs, 212 line drawings, 40 black and white photographs, 190 tables.

The even better news is that the prepublication price of \$76.95 (+shipping) at Patricia Ledlie Bookseller doesn't expire until 30 Sep 99. It's a bit of a sacrifice buying the North American version, as it lacks the beautiful dust jacket of the British version, but buying it right away provides a substantial saving from the final price of \$95.00.

Patricia Ledlie web site: [www.ledlie.com](http://www.ledlie.com)

### Dragonflies of Washington

Okay, so this is Michigan, but it is nice to see what is being produced for the beginners in other states. Dennis Paulson's 32-page booklet is a full-color treatment of the 76 species found in the state of Washington, and covers damselflies and dragons. The booklet does a nice job with introducing terms and illustrating anatomy. Many species are shown in excellent photos. The guide does introduce you to the different families and provides diagnostic features of the taxa. I can't argue with the price - \$6.50, and it's a good addition to any Odonata enthusiast's library. To purchase a copy, make your check out to the Seattle Audubon Society, 8050 35th Avenue NE, Seattle, WA 98115 (ph: 206-523-4483). Add \$1.00 for postage!

### Michigan Butterflies and Skippers

They aren't dragonflies, but this gem of a book has been long-awaited, and it sets a standard for any similar treatment of other arthropods for the state of Michigan. Mogens Nielsen is a life-long Lepidopterist, and his efforts have paid off in this colorful, 248-page treatment of our butterflies. The book covers the major types of habitats, and has a checklist of the species. Each species is mapped and represented by several photographs of the adult, with variations shown. Larvae and/or chrysalises are also shown for some of the species. Food plants, flight-periods and other useful information is provided. I can't say enough good things about this publication. It is published by Michigan State University Extension, and at \$19.95, the price is downright cheap.

No. E2675. Michigan Butterflies and Skippers by Mogens C. Nielsen. 1999. Paperback, 248 pp. Available from MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039.

## LISTED SPECIES NEWS

### Hine's Emerald Moves South

Wayne Steffins

I just completed my third year of USFWS funded Hine's emerald (*Somatochlora hineana*) surveys in Michigan. This was an exciting summer, especially after last year's dismal season. After last year I was starting to wonder if any new populations would be found, despite the relative abundance of potentially suitable habitat in the state.

The most exciting find of the summer was in Alpena County, where I observed several Hine's emeralds in a privately owned wetland several miles from Alpena. This is a range extension of nearly 100 miles from the UP sites, and of course its very good news for this endangered species. A few days later I was surveying some nice looking habitat a few miles from Roger's City in Presque Isle County. I had finished surveying several of the best looking sites with no luck. I decided to check out one more wetland before giving up, and saw two Hine's emeralds feeding along a trail and another feeding in the nearby seepage fen! Michigan now has 10 known Hine's emerald sites in 3 counties, almost as many total sites as Wisconsin, and I suspect there are several more waiting to be found.

I had an amusing experience at one of the UP sites this year. I was watching a female Hine's ovipositing among a clump of sedges, and I gently slipped my net over her while holding the bag up with my other hand. After she finished dipping her abdomen a few times, she flew up, found herself in the net, and tried to escape for a few seconds. Then she went right back to ovipositing while I watched through the net bag before letting her escape!

I also surveyed several sites in Ontario. Although I did not find Hine's emerald there, some of the habitat looked pretty good and the hydrology looked great. There are many seeped wetlands on both Manitoulin Island and the Bruce Peninsula, all underlain by carbonate bedrock that the species seems to require. I only had time to survey a few of the highest quality potential habitats. I think there is a good chance they will be found there eventually but they will probably be quite localized as they seem to be in other areas. I hope other people will follow up and get out to look for Hine's emeralds in Ontario. If they have been hiding in the Lower Peninsula all this time, they just might be hiding in Canada too.

## FIELD NOTES

### Notes on Dragonfly & Damselfly Activity at Two Sites in Washtenaw County During June & July 1999.

Elvera Shappirio

All observations were from a kayak.

#### Crooked and Pickerel Lakes in Pinckney State Recreation Area (near Silver Lake).

6/14/99, 12-4:00 PM, 60°, clear

Many *Erythemis simplicicollis* males hunting or resting on lily pads and several females seen but no sign of mating or egg-laying.

A few *Libellula luctuosa* males hunting or resting on *Scirpus*

Many *Libellula incesta* hunting actively over lily pads and spatterdock leaves.

Two *Libellula pulchella* males were seen briefly over the marshy vegetation at the edge of the lake.

Four *Celithemis eponina* fluttered about the edge of the lake.

Five or six *Argia fumipennis violacea* were seen in lily pad areas.

A few *Enallagma geminatum* were hunting in the steam between the lakes

Two *Ichnura verticalis* females were seen (powdery blue with a green face).

Three *Libellula luctuosa* males were observed resting on *Scirpus*.

Many *Libellula incesta* males and females actively flying . Some females were laying eggs by touching the tips of their abdomens to the water among the lily pads.

Many *Erythemis simplicicollis* males and females were hunting or resting on vegetation. Some females laying eggs in the same way as *Libellula incesta*.

*Celithemis eponina* were present as several pairs in tandem, each female touching the water among the lily pads with her abdomen as the pair fluttered erratically about, dodging many *Libellula incesta* which were constantly diving at them.

*Enallagma geminatum* were present in modest numbers.

A *Lestes* sp. was pale greenish-probably freshly emerged.

Eastern Kingbirds and Red-winged Blackbirds were observed catching teneral dragonflies from among the

reeds and grasses and taking them to nests on four occasions.

7/12/99, 3:30-6:00 PM, 75°, mostly sunny

Five *Perithemis tenera* fluttered over lily pads.

Twelve or so *Enallagma signatum* were scattered over

Crooked Lake and in the channel between lakes (but not over Pickerel Lake). and two pairs were mating.

A few *Enallagma geminatum* were seen in the stream area.

Many *Libellula incesta* males and females were seen actively flying . Some females laying eggs by touching the tips of their abdomens to the water among the lily pads.

Many *Pachydiplax longipennis* were actively hunting.

A few *Erythemis simplicicollis* males and females were actively hunting but no mating or egg-laying was observed.

Two *Libellula quadrimaculata* hunting.

Five male *Libellula luctuosa* were hunting or resting.

One *Celithemis eponina* was seen flying.

Two *Anax junius* appeared briefly over the lake.

#### Huron River: Hudson Mills to Delhi Park, eight miles.

7/15/99, 11-4:00 PM, 80°, mostly sunny

Two hundred or more *Argia moesta* were seen along the course of the river, males and females, flying singly or in tandem, some mating. Several "mating balls" about ten inches in diameter were seen formed around a snag or branch projecting from the the water. These were loosely aggregated mating pairs and single individuals standing on one another or hovering at the surface of the group.

A few *Heteraena americana* males and females were seen, a few in tandem.

Six or so *Anax junius* hunting actively.

Two *Libellula luctuosa* males resting on vegetation.

Five *Perithemis tenera* flying energetically over the river.

A few *Calopteryx maculata* were seen among riverside branches-but many fewer than expected.

Five or so large, active *Gomphus* sp. with a large yellow spot on the side of the "club" of the abdomen.

Three very large dragonflies with long slender abdomens spotted bluish on black were hunting back and forth across the river. Appendages at the end of the abdomen suggested that they were female *Aeshna* sp. Other characteristics could not be seen well enough because they flew so rapidly.

# Sayles Lake Samples

Mark O'Brien

This year, the Museum of Zoology started its educational programs at Patterson Lake Nature Center (PLNC) in SW Livingston Co. -- just across the road from the E.S. George Reserve, its outdoor research area. The PLNC was formerly known as the "Fresh Air Camp," is bordered by several Lakes - Patterson Lake, Woodburn Lake and Sayles Lake. (Fig. 1). One other lake, Cranberry, also lies within the property on the SE side, but it is a small glacial kettle-hole pond. Since I now have access to the PLNC, it is a good idea to start documenting the Odonata fauna there.



Fig. 1 Patterson Lake Nature Center

Sayles Lake, which appears to be fairly shallow, is particularly interesting to me for several reasons: (1) it is virtually surrounded by a sphagnum/sedge floating mat that is quite extensive to the NW side. (2) It supports a large population of *Nannothemis bella*, and (3) it is also a potential site to search for *Williamsonia* next April.

I started visiting/collecting at PLNC in May 19, 1999, and at that time, the common species was *Epitheca cynosura*, which was commonly seen hawking gnats along the roadside and borders of the woods. Less common were *Ladona julia* and *Plathemis lydia*. As June approached and into that month, *Erythemis simplicicollis* was by far the most abundant dragonfly --it really was everywhere! *Libellula cyanea* and *incesta* were also appearing in the first week of June. I saw my first *Nannothemis bella* of the season on the sphagnum mat of Sayles' Lake on June 9. When Ethan Bright and I went out on June 17, we saw dozens of individuals on the W side of the Lake where it was predominantly short sedge mat with



Fig. 2 *Nannothemis bella* female perched amongst ferns.

areas of sphagnum and small narrow pools. It was a cloudy day, and when we disturbed a *N. bella*, more often than not, it dropped to the vegetation like a dead insect. Females often perch on a horizontal stem, often about 30 cm above the mat.

I'm still sampling at Sayles Lake at various intervals. The month of July was one long heat spell, but we had sufficient rain so it appears that water levels did not drop too much. I stopped out briefly on July 29, and *Sympetrum obtrusum* was fairly common at Sayles. I hope to sample until October, and it will be interesting to see what species of *Aeshna* turn up.

Fig. 3 Below: Ethan seines among the sedges.



## Preliminary list of Anisoptera from Patterson Lake Nature Center

AESHNIDAE: *Anax junius*, *Aeshna umbrosa*  
GOMPHIDAE: *Gomphus spicatus*  
CORDULIIDAE: *Dorocordulia libera*, *Epiptera cynosura*  
LIBELLULIDAE: *Celithemis elisa*, *Celithemis eponina*,  
*Celithemis fasciata*, *Erythemis simplicicollis*, *Ladona julia*,  
*Leucorrhinia intacta*, *Libellula cyanea*, *Libellula incesta*,  
*Libellula luctuosa*, *Libellula pulchella*, *Libellula quadrimaculata*,  
*Nannothemis bella*, *Pachydiplax longipennis*, *Plathemis lydia*,  
*Sympetrum obtrusum*, *Tramea lacerata*

## Delta Dawns

Mark O'Brien

As I write this, I'm sitting in my tent during an overcast cool day in mid-August. We are camped at Portage Bay State Forest Campground on the Garden Peninsula in Delta Co. This campground is very nice- new pit toilets (very clean), and with the 24 campsites spread out along the lakeshore, it is a very quiet campground. The sounds of sandhill cranes, red-breasted nuthatches, gulls, loons and ravens are a nice change from Ann Arbor. Several resident red squirrels give us heck whenever they feel like it. The bedrock here is dolomitic limestone, and in many places it's not covered by sand. The shoreline at Portage Bay has large stretches of limestone where Lake Michigan waves have quarried it and piled it into small stonewalls.

Amazingly, they grow peaches and apricots here. The climate is ameliorated by the shallow stretch of Lake Michigan that surrounds this peninsula on three sides. On the SW side is the ghost town of Fayette -- a hotbed of iron smelting some 125 years ago. It's now a work in progress as the DNR and various historical societies work to restore parts of the town. North of here is the town of Garden, where you can buy fresh peaches (they were mouth-wateringly good) or visit a couple of saloons or curio shops. There are some big farms around there--mostly corn and soybeans -- not much different than farms in SE Michigan, but also apricot, peach and apple orchards. Fresh peaches - picked yesterday - are so much better than those half-ripe rocks that we usually buy at the grocery stores.

There are numerous alvar areas where the bedrock is covered by a thin veneer of calcareous soil that supports fringed gentian, spiral orchids, small lobelias, sedges and other calciphile plants. One of these small areas looks like a former gravel pit. At one end is a shallow, fishless pond and nearby are several small areas that look like sedge fens. The water in the sedge areas is about 4 inches deep, and numerous *Lestes* were seen there. I also collected a *Pantala flavescens* as it hovered over the water. Marjorie and I collected several species of *Aeshna* near there - *A. constricta*, *A. canadensis*, and *A. interrupta*. We also have seen numerous *Anax junius* there and along the edges of

woods, where the sexually immature and recently-emerged adults are feeding. The mostly cloudy and cool weather has not been the most favorable for Odonata, but the little *Sympetrum*s seem to be everywhere, affected only by rain and wind. *Sympetrum costiferum* is common along the shores, and *S. obtrusum* and *S. vicinum* are also abundant here. I collected a pre-reproductive female *Sympetrum corruptum*, which looks very unlike the darker, reddish male that I am accustomed to seeing. *S. corruptum* is a large *Sympetrum*, nearly 1/3 bigger than a *S. rubicundulum*. We have not seen many damsels except for *Lestes* and *Ischnura verticalis* (big surprise). However, at nearby Bog Lake, I collected two *Aeshna eremita* and saw several *Enallagma*, which were probably *E. hageni*.

*Somatochloras* are there, but much to my consternation were flying about 10 feet higher than my long-handled net can reach. Usually, we see them flying up and down the road between the trees, where they hawk small gnats. The wooded pools here seem to be good places for *S. williamsoni*, but I didn't see any.

Much of Delta County is also un-explored and there are a lot of nice rivers and lakes in the county, above Big Bay de Noc. The Sturgeon River is a sandy-bottomed, coffee-colored river that drains numerous wetlands in the central part of the county. Looks like a great habitat for gomphids. It certainly has good habitat for *Boyeria vinosa* -- as I saw quite a few flying up and down its banks on a cloudy day.

## NEW STATE RECORD SUMMARY

***Tramea onusta* Hagen** - The red saddlebags has been possibly sighted in recent years near the Detroit downriver area and along the Ontario border. However, the first voucher specimens come not from SE Michigan, but NW Michigan (LP). Carl Freeman collected *Tramea onusta* in Benzie Co. at the Upper Herring Lake Preserve (T.25N, R.16W, Sec. 13) on 25 June and 1 August 1999 at a marl pond.

***Somatochlora tenebrosa* (Say)** (Clamp-tipped emerald) - This species was removed from the state list in 1997, but it's back on again, as Carl Freeman collected 2♂ and 1♀ in Benzie Co., T.25N, R.16W, Sec. 24 in August 8, 1999. These individuals were flying near a cedar swamp that bordered the road.

***Williamsonia lintneri* (Hagen in Selys)** - The ringed boghaunter was found on May 2, 1999 in Mecosta Co., Sheridan Twp., by Stephen Ross. Several more individuals were seen over several days after the first specimen was collected. This was quite the find, as this species was only recently discovered in Wisconsin. A full account of the find and a summary of the distribution of *W. lintneri* and *W. fletcheri* is in press in *The Great Lakes Entomologist*, and should be out later this year.

# Michigan Odonata Survey Fall, 1999 Meeting Saturday, October 2 Patterson Lake Nature Center 11:00 am - 5:00 pm

Bring a lunch! Refreshments (coffee, soda, etc. will be available)

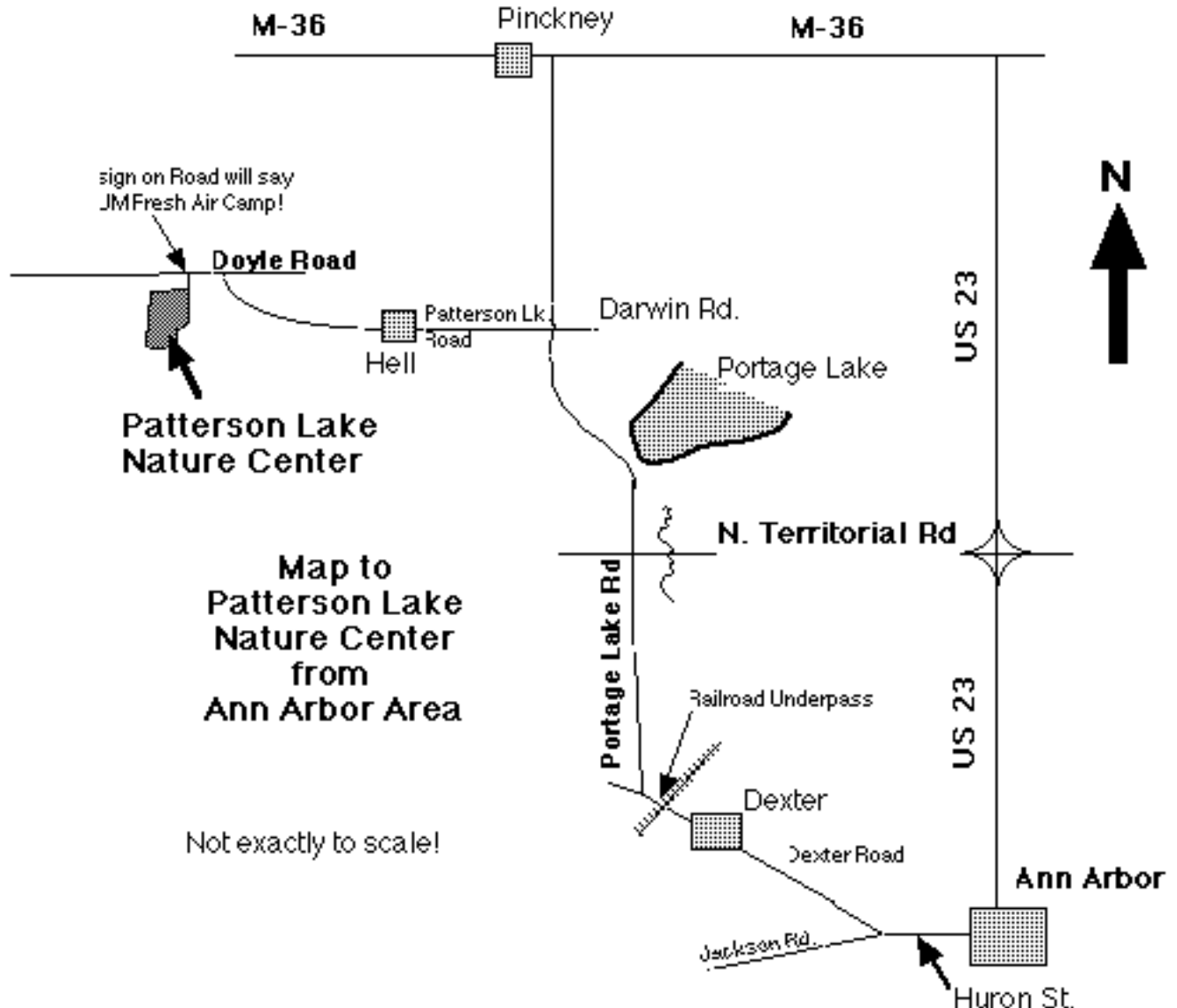
### Tentative Agenda:

- Recap of summer's collecting experiences
- New State and County records
- Resources for MOS Members
- Slide show w/whatizzit session
- Trip to Sayles Lake Bog (rain or shine)
- Ideas for next year

Patterson Lake Nature Center is located about 25 mi NW of Ann Arbor, off Patterson Lake/Doyle Roads, 3 mi W of Hell.. (See map). Old signs will indicate that it is the UM Fresh Air Camp. Yes, it has fresh air!

However, it is now administered by the UM Museum of Zoology and is an outdoor education center for UM undergrads in zoology, botany, geology and natural resources curricula. Also check the UMMZ web site at <http://www.ummz.lsa.umich.edu/ESGR/fac.html> for more information on the Patterson Lake Nature Center.

**Please RSVP by Sept. 24 if you plan to attend the meeting** (by email, to [mfobrien@umich.edu](mailto:mfobrien@umich.edu), or phone 734-647-199 or 971-6033), so that we'll be able to better plan for handouts and refreshments.





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## *Williamsonia*

A quarterly newsletter of the Michigan Odonata  
Survey

Vol. 3, No3, August, 1999

Editor: Mark O'Brien, Assistants: Ethan  
Bright, Ellie Shappirio

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