



# The Ohio Dragon - Flier



\* *Newsletter of the Ohio Odonata Society* \*

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**SAVE THE DATE : SATURDAY 23-JUNE-2012 (OOS ANNUAL MEETING)**

An email was sent out prior to this newsletter with an attachment compiled by Bob Glotzhober with many details of the OOS annual meeting and field trips for 2012. If you did not receive this communication, please contact the newsletter editor Steve Chordas III ([stevechordas@sbcglobal.net](mailto:stevechordas@sbcglobal.net)) and it will be forwarded to you. Thanks.



**REGISTRATION, HOTELS AND OTHER INFO.**

Registration is quite a bargain again this year = it is **FREE** !! However, we would like to know the expected attendance (that would be extremely helpful). Please contact Bob Glotzhober at ([bglotzhober@ohiohistory.org](mailto:bglotzhober@ohiohistory.org)) to register.

Hotels? In addition to the Red Roof listing in the communication from Bob (Red Roof Inn, Holland (Toledo), Ohio 419-866-5512), here are others that are in the area (not far from the Red Roof location). All are just a short distance from Oak Opening Metropark.

- \* Days Inn Toledo Airport : 10753 Airport Hwy, Swanton, Ohio, 43558 : 419-865-2002 (from \$47.00)
- \* Super 8 : 1390 Arrowhead Road, Maumee, Ohio, 43537 : 419-897-3800 (from ~\$69.00)
- \*\* Many hotels are located on "W Dussel Drive, Maumee, Ohio 43537" but most are \$80.00 or more.

**EVENTS, TALKS, OOS MEMBER MEETING, FIELD TRIPS, ETC**

The meeting will be held at Metro Parks Oak Opening's **Buehner Center** (Lucas County, Ohio) beginning at 9:00am. The day will include the annual business meeting of the Ohio Odonata Society, election of officers for 2013, election of 2 new members of the photo records committee, Odonata talks, field trips, and mingling with Ohio Odonata folks. We anticipate ending the indoor session by early afternoon (about 12:30) and heading into the field for guided field trips, Odonate collecting, photography, general Odonata viewing, nature walking, bug collecting, etc. Access, permits, etc have been procured for our meeting (thanks Bob Glotzhober ☺).

- \* Link (web address) to info / directions, etc [www.metroparkstoleado.com/metro/parksandplaces/index.asp?page\\_id=510](http://www.metroparkstoleado.com/metro/parksandplaces/index.asp?page_id=510)
- \* Physical address of Buehner Center = 4139 Girdham Road, Swanton, Ohio 43558.

Important : be sure to see the **"Requirements to Avoid Chytrid Fungus Spread"** outlined in Bob's communication prior to attending the field outings and guided tours.



# CALL FOR NOMINATIONS : OOS PHOTOGRAPHIC RECORDS COMMITTEE MEMBERS

By Steve Chordas III

# New for 2012 - Apply this year! SMALL GRANTS FROM OOS?

By the OOS Officers

We are accepting nominations for two new OOS members to serve on the Photographic Committee (PRC) starting in 2013. Members serve on the committee for the duration of 3 calendar years (1-January through 31-December). Two new members will be elected at the 2012 OOS meeting and begin their 3 year tenure as a contributing committee member on 1-January-2013. Send nominations to the newsletter editor Steve Chordas III ([stevechordas@sbcglobal.net](mailto:stevechordas@sbcglobal.net)) or contact Steve by phone at 614-421-7159. *Thanks*

\*\* If you have a photo record of a Dragonfly or Damselfly, please contact a current committee member to have your photo evaluated for acceptance as an official Ohio record (see Dragonfly issue 22#1).

\*\* We thank both **Mark Dilley & Judy Semroc** who served on the PRC from 2010 through 2012.

☺ *If either want to continue for another 3 wonderful years ....*

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## Calender of Upcoming Meetings / Events:

by editor *Steve W. Chordas III*

### OOS Annual Meeting \*\*

Saturday the 23<sup>rd</sup> of June 2012 : about 9:00am - 4:00pm+.  
Oak Openings Metropark (Lucas County, Ohio) See page 1.  
4139 Girdham Road, Swanton, Ohio 43558.

*Open to members (& public) - free of charge.* Registration requested. More specific information for this event can be provided with a + on-line at <http://www.marietta.edu/~odonata/index.html>

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## OOS MEMBERS FOR 2012

By *Bob Restifo + OOS officers*

If you are receiving this newsletter, you are an active OOS member through 2012. Thanks!

\*\*If you know a colleague, friend, etc, who did send in dues for 2012 but did not get this newsletter, please inform Bob Restifo ([rarestifo@yahoo.com](mailto:rarestifo@yahoo.com)) as soon as possible. This is likely the fault of the editor as he is not very smart so he may have inadvertently missed a name on the current member list.

Sorry!

Attached to the email including this Dragonflyer newsletter was a fillable form that members can use to apply for the OOS Small Grant for 2012-2013.

*Below is re-printed / updated from the dragonflyer Volume 21#2, 2011*

This is the call for proposals that is open to current OOS members in good standing (i.e. paid for the year proposal is submitted (2012) & potentially funded). The recipient, or recipients, of the small grant (if any) will be expected to present their findings, or project overview and results, to that point at the annual OOS meeting the following year. (i.e. projects receiving a small grant in 2012 must present at the 2013 annual meeting).

Small grant proposals up to a maximum of \$500.00 will be evaluated and considered. The OOS officers serving at the time of the proposal submission will form the committee to evaluate, accept and potentially fund the proposal (or proposals). Duration of the small grants program will be limited by the amount in treasury that exceeds anticipated operating funds and will be suspended upon depletion of the OOS funds available. Application form and details, deadlines and evaluation procedures are in the attached application form. If you have trouble with this document please contact newsletter editor Steve Chordas III ([stevechordas@sbcglobal.net](mailto:stevechordas@sbcglobal.net)) or contact Steve by phone at 614-421-7159 and we will get a form to you. Also see the motion for the small grants in the meeting minutes on page 4 of the last Dragonflyer (Volume 21 Number 2, 2011).

Submit your winning proposal now (completed proposals are to be submitted to the OOS President : Bill Hull at [mangoverde@gmail.com](mailto:mangoverde@gmail.com)). Proposal submissions will be officially be accepted until 11:59pm on 12-June-2012. Announcement of the winning proposal (if any or proposals if more than one) will occur at the next annual meeting (23-June-2012). Best of luck!



Photo  
Challenge

Who  
am  
I  
???  
See  
answer  
on page  
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## COLLECTING AND PHOTOGRAPHY!

by Bob Glotzhober

With the advent and accessibility of greatly improved digital cameras, might not photo records of dragonflies and damselflies completely replace traditional collecting? While that question is not stated quite so bluntly, it is the essence of an article in the December, 2011 issue of ARGIA by Dennis Paulson [see Argia 23 (4): 14-17]. His conclusion - absolutely not!

Anyone that knows Dennis Paulson, or his many publications on both birds and Odonata, know that Dennis is a superb photographer. He uses photography to teach, to illustrate his books and even to document finds. But Dennis is also a strong believer in the importance of physically collecting dragonflies and damselflies in the “old fashioned” method of aerial and aquatic nets. Before his retirement, he curated the collections of many animal groups at the Slater Museum of Natural History at the University of Puget Sound.

With permission from Dennis and from Argia, the full four-page article by Dennis is available as a PDF. *[we are going to link to this PDF on the OOS webpage (not there yet) : until this link is live, if you would like a copy of Dennis' Argia article please contact the newsletter editor (stevehordas@sbcglobal.net) and it will be forwarded to you]* (of course, if you would ante-up the outlandish \$20/year membership for the Dragonfly Society of the Americas, you would already have the article along with lots of other great news and informative items).

Some key points of Dennis' article follow:

- Photos have great value. Not all amateurs today want to collect. We have places like Odonata Central that vet photos and post records online. The Ohio Odonata Society also has a Photo Records Committee (PRC) that reviews and vets photos.
- However, many species (“many” is Dennis' word, not mine) cannot be identified from a photo. Females are especially difficult to impossible from

photos, depending upon the group. Even some brightly colored species have close look-alikes.

- Taxonomy requires specimens that can be carefully examined, often under a microscope.
- Specimens voucher not just occurrence, but can be used to make measurements and other examinations required for taxonomy, they are available for DNA testing, they show seasonal changes in size and coloration and geographical variation that can seldom be compared easily in photos.
- Dennis argues that “insect collecting should be encouraged rather than prohibited in our nature preserves, with the specimens being deposited in accredited institutions, and species lists submitted to the preserve managers promptly.
- Dennis states that, unlike rare birds that are territorial and may stick around in observable locations for several days, dragonflies “rarely remain in the same spot the next day - thus collecting does not take away the chance for some other enthusiast to see it.”

At the end of his article, Dennis suggests a series of 5 items in a protocol to use for photo records. Much of this the OOS Photo Records Committee already does - although we don't have a “public available server” showing all the record photos. Dennis urges everyone with photo records to submit them not only to local committees (like our PRC) but also to Odonata Central - where images and data are posted and available online. If you are not already familiar with Odonata Central - go to <http://www.odonatacentral.org/> and explore their many great features.

One main concern voiced lightly in Dennis' article, but more deeply in several e-mails on the Odonata List Serve, was the developing attitude of “us against them” - “photographers versus collectors”. Clearly, Dennis is not in favor of that attitude - nor am I, nor any of the several responders on the list serve. Photos are great. Collections are great. Each is important and vital for our growing understanding of Odonata, just like traditional taxonomy and genetics are both important and vital for this understanding.

In the Spring/Summer issue (Volume 44, No. 1 & 2) of the Great Lakes Entomologist. Julie Craves and Darrin O'Brien have an article about *Tramea calverti* (Striped Saddlebags) being discovered in Michigan. They note that this species has been showing up all over the Midwest since about 2006 when it was first recorded in Ohio. There is the only one, however, that included not only photo records but also a specimen. Who knows what future research may be used to learn more about genetics of an expanding population using that specimen. The photos do document its expansion - but what do we really know about the individuals who are on the fore-front of that expansion. Specimens that survive in museum collections for hundreds of years can hold secrets that photos never can contain.

Bob Glotzhofer

## ADDITIONS TO IRONWOOD ODONATES

By Milt Rutter

Four species were collected and added to the list for the area during seasons 2010 and 2011. These four bring the total to 67 species for Ironwood (Conneaut Ohio).

The four additions are :

Elegant Spreadwing, *Lestes inaequalis*, 17 June 2010.  
 Lyre-tipped Spreadwing, *Lestes unguiculatus*, 25 June 2010.  
 Sedge Sprite, *Nehalennia irene*, 18 June 2011.  
 Emerald Spreadwing, *Lestes dryas*, 8 July 2011.



Photos from Milt =  
 Green-striped Darners  
*Aeshna verticalis*  
 and the Sedge Sprite  
*Nehalennia irene*

\*\* An Abstract of the effects of paper mill effluent on Odonata from India was sent to us. Thanks to the second author for forwarding along. Similar effects undoubtedly occur in the U.S.

## ADVERSE EFFECT OF PAPER AND PULP MILL EFFLUENT ON THE BIOCHEMICAL CONSTITUENTS OF OVARY OF *BRADINOPYGA GEMINATA*. (RAMBER) (ANISOPTERA: LIBELLULIDAE)

R. AMBIKA\* and A. ARUNACHALAM. PG and Research Department of Zoology. Vivekanandha College of Arts and Sciences for Women, Elayampalayam, Tiruchengode - 637205, Tamilnadu, India.

The odonate life cycle is completed in two stages, both are predaceous in habit. It acts as an active predator of mosquito populations and is a bio indicator. The last three larval instars of *Bradinopyga geminata* were used as a test animal to assess the adverse effect of paper and pulp mill effluent on the biochemical constituents of the ovary. The LC<sub>50</sub>/96hr value of the effluent was found to be 60%. The last three larval instars such as anti-penultimate, penultimate and final instars were treated in various sub lethal concentrations of effluent such as 2.0%, 4.0%, 6.0%, 8.0% and 10.0% for 30 days. During normal development all the biochemical constituents such as total free amino acids, total proteins non-reducing sugars, glycogen, cholesterol and triacyl glycerol were increased with the advancement of development but under the effluent treatment the above said biochemical parameters were decreased drastically. The percent reduction of the amino acid was 35.67 in 20 days and 41.52 in 30 days effluent treated larvae. Similarly, percent reduction of total protein content exhibit up to 54.77 in 20 days and 44.29 in 30 days, non reducing sugars 75.00% in 20 days and 71.01% in 30 days, glycogen levels were reduced up to 25.80%, total lipids and triacyl glycerol also exhibited reduced levels of biochemical constituents. The diminished state of biochemical constituents leads to the physio metabolic dysfunction of the ovary. The impaired utilization of proteins, carbohydrates and lipids in the ovary indicates the toxicity which promote the catabolism of ovary under the stress condition. Therefore, the release of paper and pulp mill effluent into the watercourses could definitely bring large scale death of economically important insects like the Odonata.



# ODONATA IN EVERYDAY LIFE ?

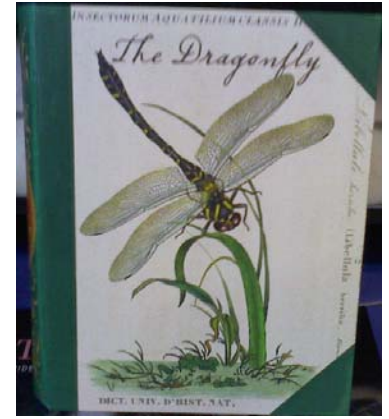
Contributions from *Mary Jo White & Bob Restifo*  
 More Contributions from *Bob Restifo* for the next issue also (thanks Bob)

Three Dragonfly Holiday gifts given to OOS Member Mary Jo White by her step-mother (thanks for sharing Mary Jo).

The following dozen (yes 12) items of various Dragonfly items are from Bob Restifo. **Thanks Bob** ☺ (many more Odonata items to come from Bob in future issues).



Exercise Ball



Diary Book



Drink Coaster



Note Pad - Cool !!



Door Knocker



Flower Pot Holders



Dragonfly Soap !



Garden Decor x2



From Bob Restifo :



Decorative Tile



Decorated Dish



Earrings



Decorative Dish



Garden Gloves



Cool Glass Dish

This section is intended to be a member driven / contribution section. Take a photo, send in a comment, make a comment, tell us where to get good Odonata "things".

Send your examples, comments, contributions, photos, etc to editor Steve Chordas III at ([stevechordas@sbcglobal.net](mailto:stevechordas@sbcglobal.net)) or snail mail at 1063 West 2<sup>nd</sup> Avenue, Grandview Heights, Ohio 43212.

# **AESHNA TUBERCULIFERA : THE BLACK-TIPPED DARNER. A NEW COSHOCTON COUNTY RECORD WITH AN UPDATE FOR THIS UNCOMMON OHIO SPECIES**

by Steve Chordas III

The writer was involved in an investigation of the Lyme Disease vector, the black-legged tick (*Ixodes scapularis*), in September of 2010 in Coshocton County Ohio. Of course a sweepnet (my dragonfly net) was brought along. Learned my lesson a long time ago by not having it! During a lull in the tick proceedings, a colleague and I walked to an open area where we had observed a few dragonflies darting about earlier in the day. I thought I saw an *Anax longipes* (Comet Darner) speeding by but repeatedly failed miserably to capture any of the *Anax* present. Just before giving up entirely, I spotted a darner that appeared to be an *Aeshna*. To my surprise after passing, it turned and flew almost straight at me. One swing was all I got, and I netted it. Looking at it, it was indeed an *Aeshna* but not one recognized immediately. I kept the specimen to identify once I got home. It proved to me more difficult than I anticipated. I used the Ohio Book (Glotzhofer and McShaffery, 2002).

This specimen failed to key in the *Aeshna* chapter of Glotzhofer and McShaffery (2002). The first couplet asks if the lateral pale stripes are margined or not with brown or black. This specimen has the lateral pale stripes margined with darker areas (see photo of specimen : Figure 1). Thus the key pointed to *Aeshna umbrosa* (a Shadow Darner). However, the specimen was clearly not that species. Looking at the male genitalia, the 10<sup>th</sup> abdominal segment, and the ventral aspect of the abdominal segments confirmed it was not *Aeshna umbrosa* but appeared to be *Aeshna tuberculifera*? (see photo : Figure 2). Having no real confidence in the determination (failing to key, etc), I contacted Bob Glotzhofer (Ohio Historical Society). He confirmed that it was indeed a male *Aeshna tuberculifera*



**Figure 2.** *Aeshna tuberculifera* Male distal abdominal segments and male terminal appendages.

There are only three new records\* known for *Aeshna tuberculifera* since the 2002 publication of the Ohio book (span of a decade). These three additional records are (alphabetical order by county):

**Ashtabula Co.** -- Milton Rutter, 2004 (CMNH specimen)

**Coshocton Co.**-- Steve Chordas III, 2010 (OHS)

**Medina Co.** -- Mark Ludwig, 2009 (OHS)

\* Data from personal communication with Bob Glotzhofer.

Glotzhofer and McShaffery (2002) reported *Aeshna tuberculifera* from 13 counties. With the addition of the above records, this species is only known from 15 Ohio Counties. Further, there are only about 50 total specimens known from Ohio. An uncommon Dragonfly indeed.

## Literature Cited:

**Glotzhofer, R.C. and D. McShaffery (editors). 2002.** The Dragonflies and Damselflies of Ohio. Ohio Biological survey bulletin new series. Volume 14 Number 2. ix + 364p.

Special thanks to Bob Glotzhofer for additional data, comments and verification the species determination of this specimen. The specimen is deposited into the Ohio Historical Society collection, Columbus, Ohio. Additional thanks to Dr. Rich Gary (Ohio Department of Health and The Ohio State University) who was a vital aid in the field at the Coshocton county collection site.



**Figure 1.** *Aeshna tuberculifera* Male, Coshocton County Ohio.

## 2012 - THE YEAR OF EARLY ODONATES !

by Larry Rosche, Jim McCormac, Bob Glotzhofer

March broke records of high temperatures across the nation and Ohio was no exception. The Odonates took advantage of the nice weather to be outside in the Buckeye State!

Larry Rosche reported : Amazingly, there have been 12 species of odonates reported in NE Ohio before 26 April 2012. He is sure most of these 12 represent early dates. Larry remembers Common Baskettails (*Epitheca cynosura*) being photographed at Sandy Ridge (Lorain County) on 3 April 2005. He doubts if anyone beat that record. Stream Cruisers (*Didymops transversa*) were reported at River Road and Veterans Park in Lake County on 19 April 2012;

probably best any state record. The Common Green Darner (*Anax junius*) (reported 14 March 2012 : Kelleys Island?), the Swamp Darner (*Epiaeschna heros*) (reported 19 April 2012 : River Road LMP?) and Spring Darner (28 March 2012 River Road LMP : Larry has this photo) dates should be sent to the OOS Photo Records Committee (send records to Larry Rosche at [larryrosche@yahoo.com](mailto:larryrosche@yahoo.com), he is secretary of the committee) for storage and data inclusion. The Dot-tailed Whiteface (*Leucorrhinia intacta*) was reported on 19 April 2012 at River Road LMP and breaks the known record early date. Aurora Damsels (*Chromagrion conditum*) on 19 April 2012 reported from River Road LMP and Triangle Lake Bog also are well ahead of schedule. The March reports for the Eastern Forktail (*Ischnura verticalis*) and Fragile Forktail (*Ischnura posita*) also break early dates by a wide margin. All photos should be submitted to the Photo Records Committee and would be greatly appreciated.

Many thanks for Larry for keeping all of us up to date on Odonata activity in Ohio. We all **greatly** appreciate his perpetual efforts.

Jim McCormac reported the following for the Common Green Darner (*Anax junius*) in Central Ohio: I was surprised to see three green darners on 19 March 2012, hunting over the small wetland/pond at Fountain Square, Ohio DNR's headquarters, in Columbus. Even more surprising was when two of them joined in tandem, and the female began ovipositing. Bob Glotzhober posted an entry on Ohio Historical Society's Archaeology/Natural History Blog site about the early arrival of the Common Green Darners. You can read this and loads of interesting material on the blog at : <http://ohio-archaeology.blogspot.com/>



Perfect fit for St. Patrick's day, 2012 - Common Green Darners appear around Ohio for this "green" holiday!

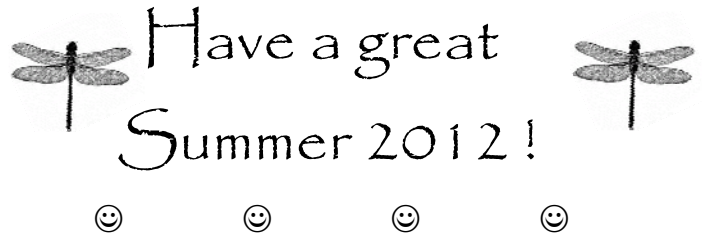
## FIRST DAY OF CLASSES AT CSCC - AN ODONATE ATTENDS

by Steve Chordas III

On Wednesday 28 March 2012 on the Columbus State Community College main campus at approximately 6:00pm a dragonfly, that I initially thought to be an off colored and more clear winged *Epitheca princeps* (Prince Baskettail), was observed and appeared to be feeding on insects that were flying near the top of a tree next to the campus cafeteria. It was only present for about a minute and did not get close enough to confirm the species. One thing for sure is that it was not an *Anax junius* (Common Green Darner). It darted about rapidly near the top of the tree (about 4 meters high)

and the fly away along a straight line. Regardless of the species, this is a very early date to see dragons (that are not *Anax junius*) in central Ohio.

\* After composing this note a timely communication from Larry Rosche reported that OOS President Bill Hull photographed and observed several *Sympetrum corruptum* (Variegated Meadowhawk) in SW Ohio. I am now convinced that this is what I saw on this evening also.



PLEASE SUBMIT :

### **NEWSLETTER CONTRIBUTIONS !!**

From the editor, Steve W. Chordas III

Special Thanks to **Bob Glotzhober, Bob Restifo, Mary Jo White, Larry Rosche, Jim McCormac** for submitting contributions to this newsletter!!

We are always looking for your thoughts / findings / Odonata related materials, announcements or general information to include in the Dragon-flier. We welcome submissions from our membership. Feel free to send your contributions, ideas, suggestions to Steve Chordas at ([stevechordas@sbcglobal.net](mailto:stevechordas@sbcglobal.net)) or snail mail at 1063 West 2<sup>nd</sup> Avenue, Grandview Heights, Ohio 43212.

- ★ If you have announcements or event notification information to include in the "calendar of events section", please send them to the editor at [stevechordas@sbcglobal.net](mailto:stevechordas@sbcglobal.net) for inclusion in the 2012(#2) newsletter. *Thanks !!*

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**MEMBERSHIP REMINDER !** *From the OOS officers.*

### ✓ **OOS membership runs on a calendar year.**

\* In the past, many members paid their dues at the annual meeting (which will be held in June in 2012). You can still pay 2012 dues at the annual meeting - but, that would carry your membership to the end of that year only and give you only one newsletter. We will have dues forms for 2013 at the annual meeting also (so you can join for the next year!). *Thanks !!*

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