

THE

Pedestal



2014 Fall Tour

Indiana Association of Professional Soil Classifiers (IAPSC)

Indiana Association of Professional Soil Classifiers Fall Tour

Location: John S. Wright Forestry Center
1007 North 725 West in West Lafayette.

Camping at Ross Camp
9225 W 75 S
West Lafayette, IN 47906

UTM Zone 16, 496713.54E 447541.55N , NAD 83

When: September 12th, 2014

Agenda (Eastern Daylight Savings Time)

9:00 -10:00 -- Registration: Dena Marshall IAPSC Secretary/Treasurer

10:00-10:05 Welcome and Introductions: John Allen, IAPSC President

10:05-10:15 Area Welcome: Jane Hardisty, NRCS State Conservationist; Becky Ross, NRCS NW Area Conservationist

10:15-10:45 Visualizing Soil Landscapes With iPads: Darrell Schulze, Professor of Soil Science, Purdue University

10:45-11:05 Wetland Reserve Program Field Visit Overview: Jeff Cannaday, NRCS NW Area Engineer; Mike Wigginton, NRCS NW Area Resource Soil Scientist

11:05-12:15 **IAPSC Business Meeting**

12:15 - 1:00 **Lunch and Door Prizes**

1:00 - 1:20 **Tour Sewage Treatment Facility at Martell Forest/Wright Center:**
David Ortel, Indiana State Department of Health

1:20 – 1:30 **Load Buses to go to WRP Site**

1:30 – 3:00 **Tour Wetland Reserve Program Field Sites:** Dean Craig, Landowner

3:00 **Adjourn**

The Indiana Association of Professional Soil Classifiers (IAPSC) is a not-for-profit organization of soil scientists who are interested in the field study and evaluation of soils.

John Allen, President
Dr. Darrell Schulze, Past President
Joanne Mosher, President Elect
Dave Ortel, Vice President
Dena Marshall, Secretary-Treasurer
Norm Stephens, Pedestal Editor

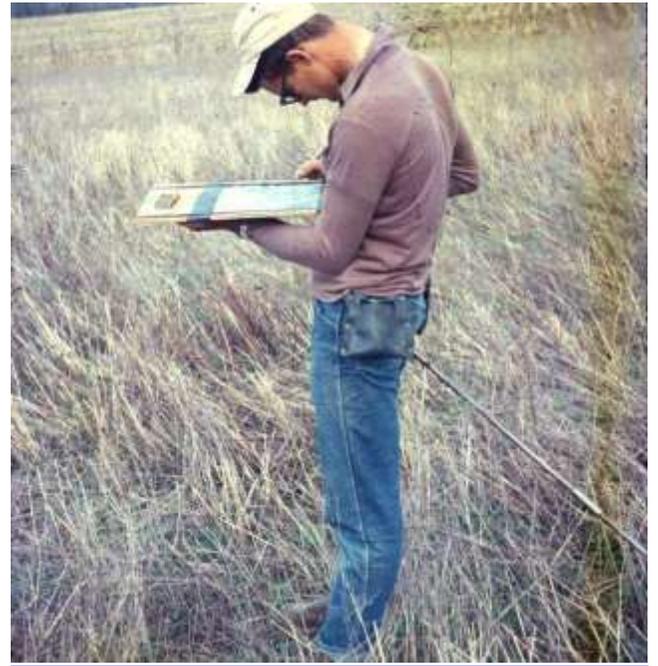
<http://www.oisc.purdue.edu/irss/iapsc.html>

<http://www.iapsc-in.com>



Mom, the dog's digging in the yard again...

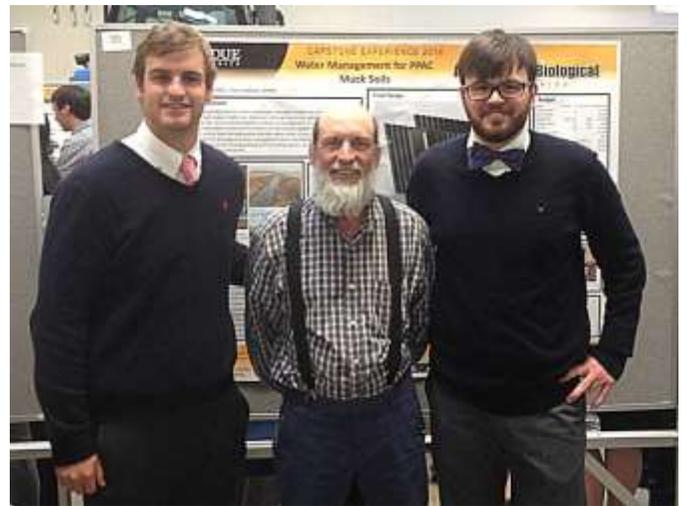
Proper training is the key to quality soil evaluations.



Guess who?

NRCS

George McElrath
Soil Scientist
"...there's soil here somewhere..."

The image features the NRCS logo in the top left corner. Below it are two photographs of George McElrath. The left photo shows him in a yellow jacket and red hat standing next to a white vehicle in a snowy field. The right photo shows him in a purple shirt kneeling in a field, working with soil. Below the photos is a blue box containing his name, title, and a quote.

Smile and say, "Muck".



I Love Dirt!



One good turn deserves another!

Steinhardt Wins Award

Congratulations to Dr. Gary Steinhardt for receiving the North American Colleges and Teachers of Agriculture Judging and Student Service Award at the annual conference in Bozeman, MT.



Pictured, from Purdue, (L to R) are Melissa Welsh, Graduate Teaching Award Merit Certificate Recipient, Dr. Steinhardt, Dr. Mark Russell, Eastern Regional Director and co-nominator of Dr. Steinhart, and Elise Lofgren, Purdue Ph.D. student.

Attention Soil Classifiers:

Gary Steinhardt informed us that Purdue needs to clear out some of their storage space, thus he wanted to know if we wanted any of the hard copy soil surveys that they have left. They have the modern published surveys (1960-1990) for all counties except for Allen and Howard counties. They do not have copies of the Update Soil Surveys, but do have some of the maps for these counties. They also have some of the first generation soil surveys (1902-1950).

Please let me know if you want any of these. Gary.Struben@in.usda.gov What counties and how many? Please canvas your areas to see if any schools or others want any also. Send me a list and we will make arrangements to get them to the Fall Tour for you to pick up there. This may be our last chance to get any hard copies. Please let me know by August 1st if possible.

Also, if any of you have copies of Allen or Howard County that you no longer want or need, please bring them to the Fall Tour and we will trade you for some that you do want. Thanks! Gary Struben

Indiana Registry of Soil Scientists

(As written on the IRSS web site.)

The Indiana Registry of Soil Scientists is a program that establishes ethical standards and education, examination, and work experience criteria for Indiana Registered Soil Scientists.

<http://www.oisc.purdue.edu/irss/>

Pedestal

We really need your stories and photographs for the Pedestal. Please email them to:

norm.stephens@in.usda.gov

Or mail them to:

Norm Stephens

NRCS-USDA

6013 Lakeside Blvd.

Indianapolis, Indiana, 46278

See the Pedestal in color:

Electronic copies of Pedestal can be found at:

<http://www.indianasoils.com/pedestal.htm>

**I dig, you dig, we
dig, he dig, she
dig, they dig....**

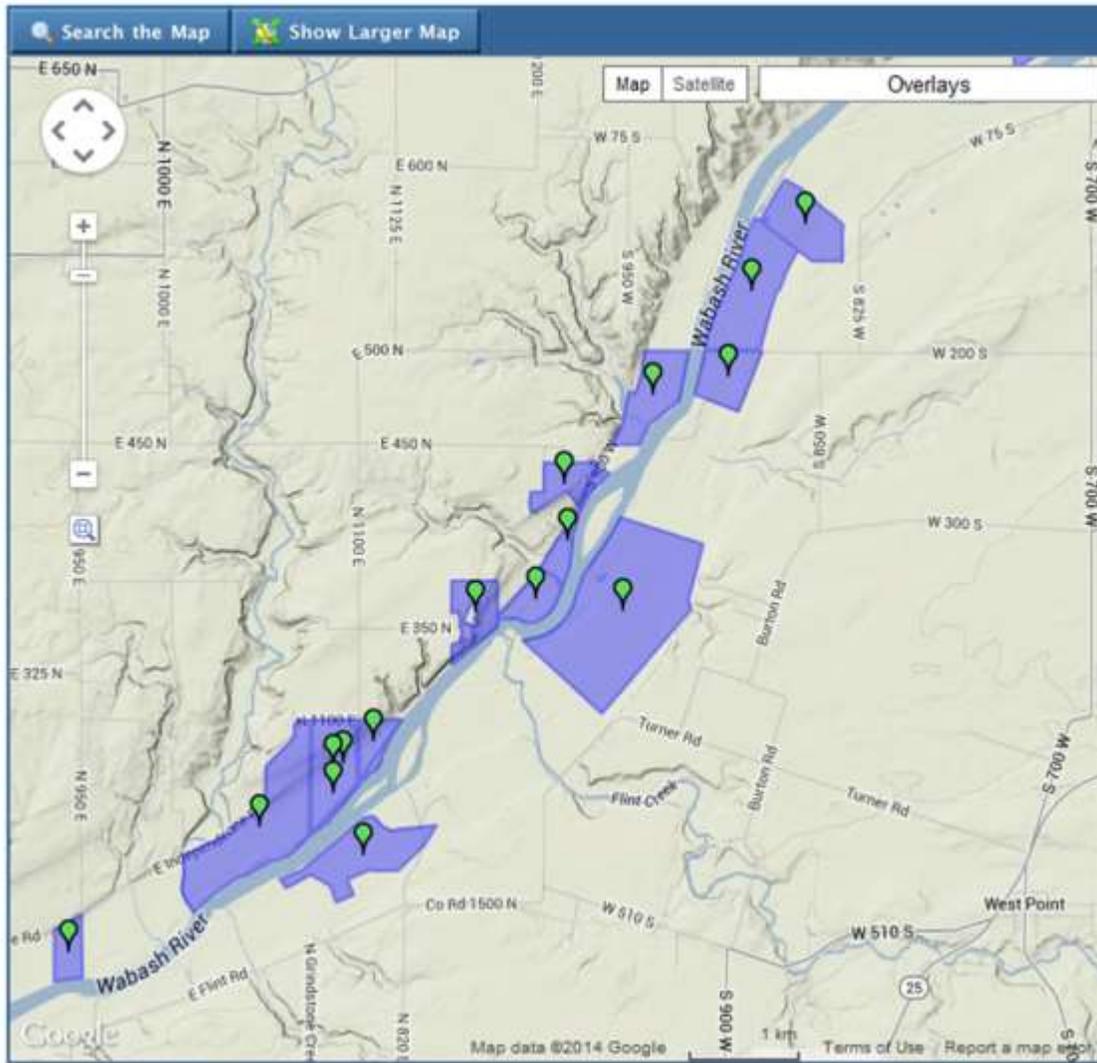
**It's not a
beautiful poem,
but it's very deep.**

IAPSC Fall Tour

September 12, 2014

The 2014 IAPSC Fall Tour will take place in the Wright Center at the Purdue Martell Forest. The tour highlights include presentations as well as viewing the onsite sewage treatment facility at Wright Center, and a field trip to a 500 acre Wetland Reserve Program (WRP) conservation easement. The Wabash and Erie Canal also ran through the area. There are quite a few WRP easements in this area. This particular WRP site was purchased as a conservation easement and the Natural Resources Conservation Service (NRCS) provided technical assistance for the design of several structures to control water for wildlife habitat. Soil investigations in the area included muck and other mineral soils as well as shallow to bedrock soils. We will discuss the soils at the site and the engineering design considerations needed on what some would consider “problem soils”. Below is a map of easements in the area as well as a photo of the site we will be visiting.





[Martell Forest](#) is in the Central Till Plain in Tippecanoe County. It contains a total of 477 acres with 398 acres of forest. The property is 8.5 miles from the Purdue University, West Lafayette campus. Martell forest is used for research and teaching by forestry students, and the students from other disciplines. Martell Forest is the site of the [John S. Wright Forestry Center](#), a research, teaching, and conference facility located at **1007 N 725 W, West Lafayette, Indiana**. Built in 2002-2003 at a cost of \$4 million, the 17,000 sq. ft. Center is a state-of-the-art facility with teaching and research laboratories, office space for faculty and staff, two greenhouses, and a conference center. In addition to the Wright Center, Martell Forest is home to the John L. Van Camp Arboretum, a collection of 100 trees native to Indiana.



If we have enough people interested, on Thursday afternoon/early evening we can visit the onsite sewage system at Ross Camp. Dave Ortel is the contact.



A campout associated with the 2014 IAPSC Fall Tour will take place at [Ross Camp](#), located 11 miles west on South River Road (Division Street) from the intersection of State Road 26 and US 231 in West Lafayette. The 200 mostly wooded acres is adjacent to Ross Hills Park. A paved entrance brings you into the campground that has 15 modern sites with 20/30/50 amp electrical hookups at each site. A handicap accessible shower/restroom building is centrally located amid the modern sites. Five campsites (1, 2, 3, 14, and 15) which can accommodate 5 vehicles and up to 10 tents, have been reserved for Thursday night September 12 (see the website for additional camp rules). We will try to “claim” the 17'x33' picnic shelter located in the campground which is available on a first-come, first-served basis. If more campsites are needed or you plan to stay for additional nights, here is the necessary information: Fees: Modern - \$21.00/night. Primitive - \$5.25/night. Camping reservations cannot be made online or via email. For Ross Camp campsite reservation information and availability, telephone the Tippecanoe County Park Department administrative office at 765-463-2306. E-mail reservations not accepted.

Capturing the Corporate Knowledge of a Soil Scientist

Soil scientists know more about what lies beneath our feet than any other group walking the earth. The challenge we have is to convey that knowledge to the rest of the population. We need to do a better job of capturing and marketing what we know about the most important resource on our planet. We need to better document what we have observed to preserve this knowledge and pass it on to others.

The table below has summarized Tom Ziegler's many borings on Miami soils, 2 to 6 percent slopes. This table shows the variability within the soil map units and gives us a good idea of the composition of this Miami, 2 to 6 percent map unit. Tom's soil borings were made with the intention of selecting the best possible sites for septic systems and may have captured more of the deeper soils which are better suited for septic systems. The data was collected on small lots, and on jobs for repairs, the borings do reveal what is really there.

I know consultants are careful about sharing client data, but when presented in this type of aggregated format, those concerns are alleviated and we still capture the knowledge. As NRCS soil scientists we spend more and more time on the computer and have fewer opportunities for field work. Capturing soils information like Tom has shared is invaluable to helping us enhance the soil survey data. I would ask all soil scientists to take the opportunity to document their soils knowledge in some manner for future generations. I commend Tom for his efforts in passing on his vast corporate knowledge. Thanks buddy!

Gary Struben,
Indiana USDA-NRCS State Soil Scientist

Table 3: Map Units with Miami in the name and 2 to 6 percent slopes

| County | Miami (Dp)i | Crosby (Deep)ii | (F-S)iii | Williamstown (Dp)iv | Xenia | Fincastle | Sabina-Yeddo | Richardville v | Ockley vi | Total vii | | | |
|-----------------------------|-------------|-----------------|----------|---------------------|-------|-----------|--------------|----------------|-----------|-----------|-----|----|-----|
| Hendricks | | | | | | | | | | | | | |
| MnB2 | 8% | 9% | 12% | 13% | - | 1% | 7% | 6% | 9% | 6% | 12% | - | 159 |
| CsB2 | 5% | 9% | 7% | 10% | 3% | 10% | 8% | 7% | 24% | 10% | - | - | 58 |
| Boone | 7% | 7% | 19% | 16% | 2% | 6% | 4% | 6% | 11% | 4% | 12% | 4% | 122 |
| Hamilton | 15% | 8% | 12% | 8% | - | 7% | 3% | 3% | 1% | 1% | 18% | 7% | 98 |
| Tippecanoe | 15% | 4% | 22% | 6% | 2% | 8% | 1% | 1% | 8% | 2% | 31% | - | 98 |
| Montgomery | 2% | 14% | 2% | 10% | - | - | 5% | 12% | 5% | 2% | 38% | 2% | 42 |
| Total Other Counties | 8% | 4% | 8% | 14% | 2% | 2% | 17% | - | 6% | 2% | 17% | 6% | 52 |
| Total | 10% | 6% | 14% | 11% | 2% | 5% | 6% | 4% | 9% | 3% | 18% | 3% | 629 |

i Fine-loamy, more than 40 inches to carbonates or dense till

ii Fine-loamy, more than 40 inches to carbonates or dense till

iii Fine-silty, 40 inches or less to carbonates and dense till, loess more than 22 inches thick

iv Fine-loamy, more than 40 inches to carbonates or dense till

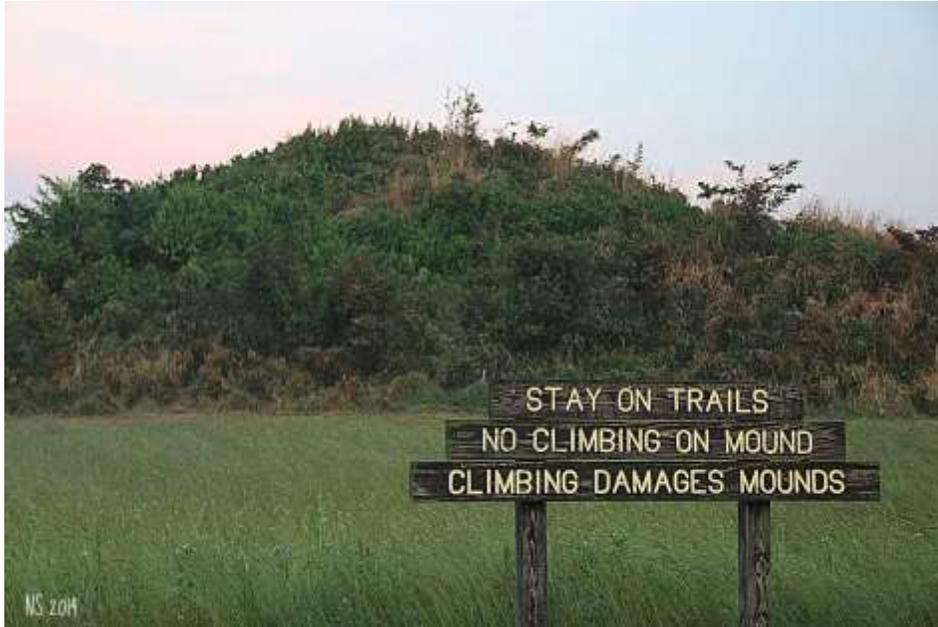
v Includes Russell soils

vi Includes Martinsville soils

vii Number of observations

56th Midwest Friends of the Pleistocene Field Conference

By Norm Stephens



The 56th Midwest Friends of the Pleistocene Field Conference was held the last weekend in May at Angel Mounds State Park in Evansville, Indiana with 60 people in attendance ... and 70 gallons of beer on tap. Conference attendees were well fed with local barbecue after a long day in the field examining the latest Pleistocene research.



Dr. Darrell Schulze demonstrated the use of iPads with landscape data and he made the iPads available for the first day of the two day conference for the various attendees to evaluate.



The Peoria Loess was examined as well as the Sangamon Paleosol developed in the Roxanna Silt below it.



The group also visited the site of the MIS 6 till deposits and the justification for extending the glacial boundary 5K further south in Indiana.



Hovey Lake provided the backdrop to an explanation of the regions tectonic activity and a possible explanation the abandonment of the region by the pre-settlement Native Americans.



Bill Monaghan leads a discussion on the construction and abandonment of the Angel Mounds on Sunday.

2014 FALL TOUR REGISTRATION FORM

For Friday September – 12th

**Registration fee includes lunch.
Help us keep costs low by registering early.**

Send in your check today!

Registration Fee \$15.00 postmarked before September 6th.

LATE FEE after 09/05/2014 - \$20.00

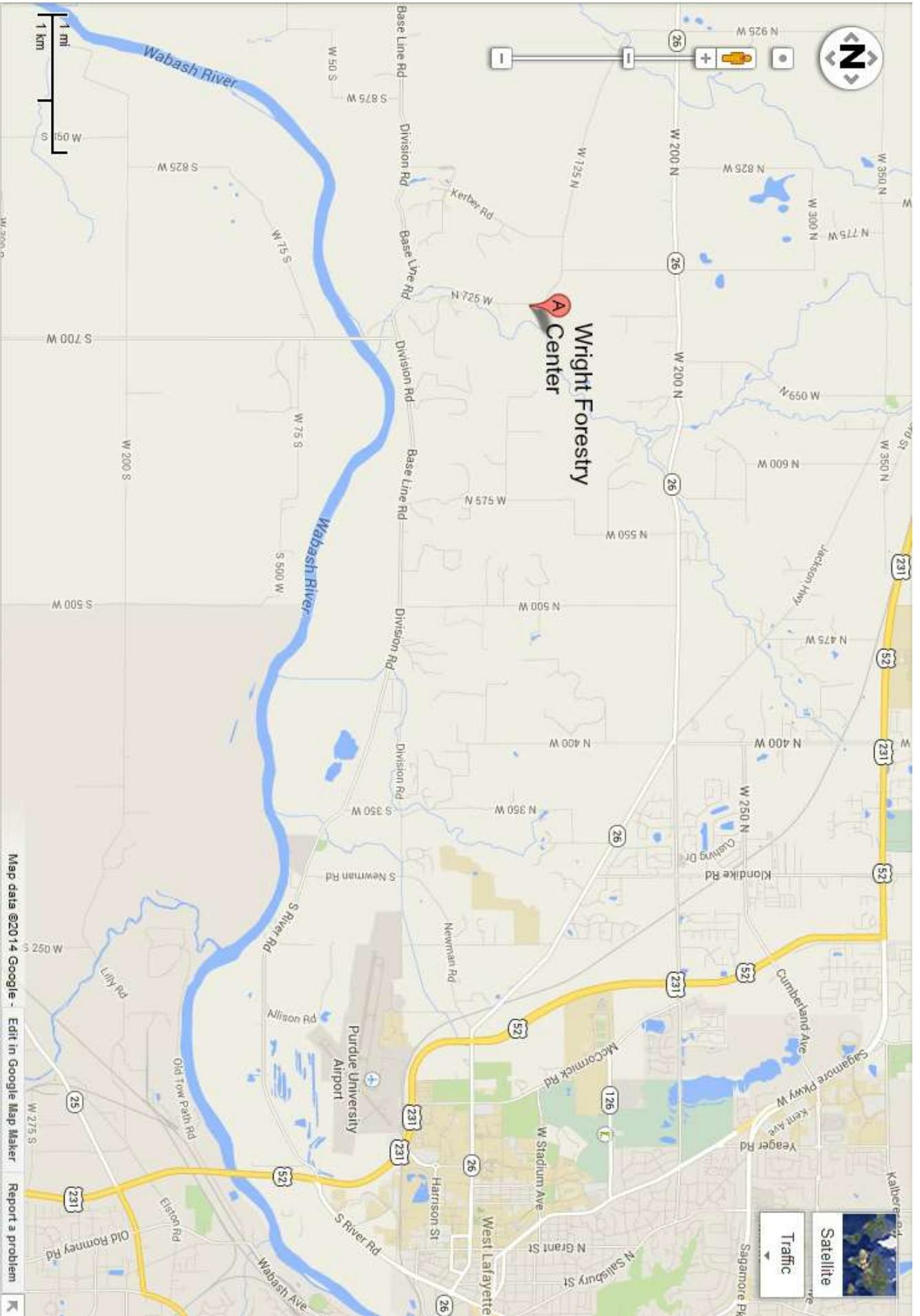
If at all possible register before September 5th.

Make checks to I.A.P.S.C. Inc.
Clip and mail to Dena Marshall:
1451 E. Millstone Rd.
Westport, IN 47283
Questions, Call Dena at 812-525-6433, or 812-591-3770

Name(s): _____

Members please update the following, if needed:

Name: _____
Address: _____
Phone No: _____
E-mail address: _____



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