

# The Web

Newsletter of the Iowa Association of Naturalists



**IAN Summer Outing (pages 7-9)!**

## Do We or Don't We?

Linda R.F Zaletel, Story CCB

Several naturalists attended a meeting with John Stiles, the AEA 11 science consultant. He is very interested in getting students connected with the environment. He wants to help naturalists, park resource people, and park rangers connect with the schools.

It's an age-old dilemma. Often, it's hard for us to program with middle and high schools because of class schedules, sports, and basic science curriculums.

And there is the issue of "No Child Left Behind (NCLB)," which, according to many educators, is

here to stay. In 2007, the science and math standards will be in place, so I suggest it is time for IAN to look at how we can interact with teachers and meet their standards, benchmarks, and measurable outcomes. John has even suggested that we prepare a round table discussion on how we can meet standards and benchmarks at the Fall Science Teacher Workshop!

So, do we or don't we look at this issue as non-formal educators?

Since Iowa doesn't have state standard and benchmark guidelines (each school district can structure its own), John stated that many school districts adopt the national standards and benchmarks and tweak them for their district. John suggested that if we align our programs with the national standards and benchmarks, we would grow in credibility in the schools and the AEA's.

What are the pros and cons of doing this?

### Pros:

- Credibility with AEAs;
- Give teachers a helping hand with how our programs fit into their standards and benchmarks;
- Look at measurable outcomes, and see how we can help meet them;
- Interact with local middle and high school science teachers, and gain credibility;
- Use the scientific method for field investigations.

### Cons:

- We already have too many school programs;
- No time to align programs to standards and benchmarks;
- Don't feel comfortable or have limited knowledge of these requirements;
- Teachers already put my programs into their curriculum.

Do we want to invite some AEA people to one of our workshops and help us align our programs with the national standards (basically a how-to session)? I know there are many issues with NCLB that are not related to what we do, but I'm all for helping with teacher's needs and making sure our phones keep ringing for programs!

So do we or don't we? Let me know what you think.

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IAN Spring Workshop, 2005

# IA News

## Summer Outing 2005

The IAN Summer Outing will be held August 8-9 in Harrison County. A great time has been planned (see pages 7-10). The Harrison County Conservation Board has graciously allowed us to use their cabins at Willow Lake Recreation Area for free. The cabins have enough beds to sleep slightly under 30 people. People may also sleep on the floor. All of the cabins have heating, air conditioning, a fridge, and a microwave. The smaller cabins do not have water, but restrooms are nearby. The large cabins have full restrooms and kitchens. You may also camp in the campground for no charge.

Willow Lake is located approximately six miles west of Woodbine (see directions on page 9). You can check out Harrison County's web site for more details about Willow Lake and the cabins at [www.harrisoncountyparks.org](http://www.harrisoncountyparks.org). Connie also has a Nature Encounter room that you will have an opportunity to visit.

*Karen Phelps (left) and Miriam Patton at the Spring Workshop in Johnson County.*



## Plea for the State Fair Booth

Does your county have skulls, special rocks, shells, fur parts etc. for the State Fair's touchy feely box. Carol Williams, special projects ranger in Story County, heads up the IACCBE Committee which is trying to make the State Fair Booth more interesting and interactive. They are looking for donations to the feely box, and for ideas from creative naturalists.

If you have something to donate, or an idea to make the booth more appealing to visitors, contact Carol at [cwilliams@storycounty.com](mailto:cwilliams@storycounty.com) or 515-232-2516. Thanks!

## IAN Professional Development 2004

Miriam Patton,  
Professional Development Chair

Professional Development recognition was given to 31 recipients, including four new applicants. These people are recognized for their efforts to grow professionally in the field of environmental education.

- Heidi Anderson
- Julie Brazell
- Ann Burns
- Katie Cantu
- Dawn Chapman
- Katie Dalton \*\*
- Laura DeCook
- Kathy Dice
- Rochelle Ebel \*\*
- Charlene Elyea
- Anita Fisher \*\*
- Sunday Ford \*\*
- Bradley Freidhof \*\*
- Heather Freidhof
- Christina Groen
- Kristi Karwal-Clark
- Jerry Keys
- Maria Koschmeder
- Theresa Kruid \*\*
- Jody Moats
- Nicole Moestchen
- Michele Olson
- Miriam Patton
- Kim Perlstein-Rowley
- Karen Phelps
- Diane Pixler
- Tina Popson
- Todd VonEhwegen
- Greg Wolf \*\*
- Amy Yoakum \*\*
- Linda Zaletel \*\*\*\*\*

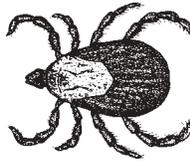
\*\* 5 year recipients  
\*\*\*\*\* 10 year recipient



## Tick Removal Kits

Kathy Cuddeback, Iowa Lyme Disease Association

The Iowa Lyme Disease Association is selling Tick Removal Kits as a fund raiser. Cost is \$5 each and includes a special tool for easy tick removal, tick I.D. card, Lyme disease facts, antiseptic wipes, and plastic bag for storing tick. Orders may be sent to: Iowa Lyme Disease Association, P.O. Box 221, Brighton, IA 52540; [www.ildf.info/home](http://www.ildf.info/home); [iowalymedisease@yahoo.com](mailto:iowalymedisease@yahoo.com)



## Book Review

Dan Cohen, editor  
*The Web*

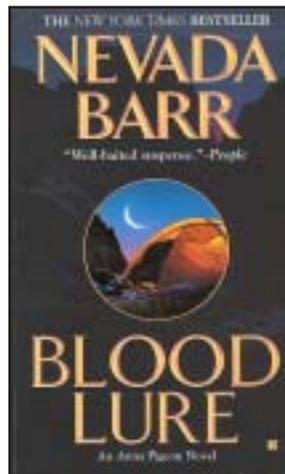
### ***Blood Lure***

Nevada Barr  
Berkley Books  
New York, NY 2001

Who done it?

*Blood Lure* is one of many mystery books by Nevada Barr. Each book is set in a national park, with Park Ranger Anna Pigeon caught in the midst of a crime scene.

In *Blood Lure*, Pigeon begins as a research assistant to a grizzly bear biologist. While baiting bears in an attempt to collect data, she comes across an assortment of characters, and one dead body. Clues to the crime slowly gather as Pigeon works to discover who could have killed a woman on vacation with her husband and son in the mountains of Waterton-Glacier National Park. Barr's books are a good read for naturalists who have a passion for crime scene mysteries. But be ready for some last minute twists to the story.



### **Not a member yet?**

Becoming an IAN member is the best way to become a better interpreter and to keep up with new ideas in environmental education. New IAN members are paired with a mentor to provide familiarity with the organization and resources in the state. Dues are \$20 per year, or \$10 for full time students.

## Ideas: Celebrating Our 50th Anniversary!

The Harrison CCB has planned a Celebrating Conservation, Recreation and Environmental Education event for Saturday, June 11th, with a special motor coach tour of selected conservation board areas. Department staff will lead the narration of area history, significance, management and future goals, as well as discussions regarding critical local funding issues, REAP and stable conservation funding, and environmental education.

The tour will present a wonderful opportunity to visually review many high quality natural and cultural areas managed by the HCCB and to discuss the future needs for conservation in Harrison County as well as Iowa.

A public celebration is scheduled to begin at 2:30 and will feature a free barbecue, conservation carnival, and tours of the recreation cabins and nature encounter center. Please share what your CCB is doing to celebrate. Send your ideas to Don Brazleton, [iaccb@fngi.net](mailto:iaccb@fngi.net).

## Web Sites to Check



<http://ga.water.usgs.gov/edu/watercycle.html>

The U.S. Geological Survey's "most comprehensive web site about the water cycle" features a wonderful diagram and an in-depth discussion of 15 topics.

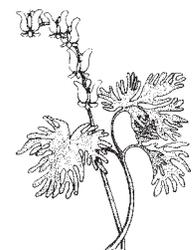


<http://www.learner.org/jnorth>

Teachers and students can participate in the Journey North project's free online global studies of wildlife migration and seasonal change. Participating classrooms follow migration patterns of monarchs, bald eagles, and other animals; the budding of plants, changing sunlight, and other natural events. Students share field observations across North America.

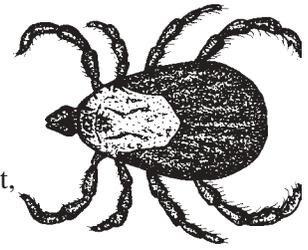
<http://www.urbanext.uiuc.edu/woods/01.html>

Take a virtual walk in the woods on this web site managed by the University of Illinois.



# Lyme Disease: Don't be scared, but be aware

Kathy Cuddeback  
Iowa Lyme Disease Association



Lyme disease or Borreliosis is the fastest growing zoonotic disease. From 2001-2002 there was a 40 percent increase in cases surveyed, to 23,763 cases. The disease is caused by a type of spirochete bacteria. The black-legged tick, formerly called the deer tick is the most common carrier.

Ticks are transported throughout the country by deer, mice and other small mammals, migratory birds, and by our own pets. Lyme is no longer an East Coast disease and often called the "Great Imposter" because the broad range of symptoms mimic other diseases. Physicians, unfamiliar with Lyme disease, often disregard patient's symptoms, referring to it as a virus or a summer flu bug. The bull's eye rash, which was thought of as a common diagnostic tool, occurs in about 1/3 of the cases.

In as little as 4 hours to as long as 72 hours, the bacteria can enter the body. Studies have shown that in less than a week after being infected, the Lyme spirochete can be deeply embedded inside tendons, muscles, the heart and the brain. It also changes form, confusing the immune system and becoming invulnerable to standard antibiotic treatment. The bacteria can exist in this cyst stage for years. If not detected and destroyed early, Lyme can be a life long illness, causing disability and even death. Lyme can also be a threat to the unborn, for it can be passed congenitally from mother to child. By learning about this disease, its symptoms, and how to avoid or remove ticks, Iowans can continue to enjoy outdoor activities. Just remember to "check and prevent".

Early signs and symptoms may occur from 48 hours to several weeks after a tick bite. It is very important to save the tick for possible testing, in a plastic vial or bag, in the refrigerator, with a blade of grass.

Early symptoms include:

- Flu-like symptoms - fatigue, muscle and joint pain, headache, fever, chills, swollen glands, sore throat, stiff neck.
- A rash which may have a variety of appearances including multiple rashes or the bull's-eye rash.

Later signs and symptoms

(weeks, months, and even years after the bite):

- Continual flu-like symptoms with swollen glands, low grade fevers.
- Muscle pain, weakness, numbness, tingling, motor dysfunction and paralysis.
- Stiff neck, severe headaches, loss of balance, dizziness, poor coordination, Bell's palsy.

- Blurred vision, loss of sight, sensitivity to light, sounds, motion, and odors.
- Irregular heartbeat, palpitations, heart block, chest pain, difficulty breathing.
- Cognitive dysfunction, difficulty organizing or making decisions, memory loss.
- Tremors, seizures, panic attacks, anxiety, sleep disorders, swollen joints.
- Depression, psychiatric disorders.

Tick Removal

- Grasp the head of the tick with tweezers and pull gently. (See physician if unable to remove the whole tick.)
- Wash site of bite with soap and apply antiseptic.
- Save the tick! Ticks can be tested for the bacterium. Save the tick in a tightly closed container with a blade of grass, and refrigerate. Make a note of the date and location of the bite. The Hygienic Laboratory in Iowa City can test ticks.
- Do not prick, burn, or squeeze the tick during removal.
- Do not smother tick with petroleum jelly or fingernail polish.
- Do not use bare fingers to remove or squeeze tick.
- See a doctor if you develop a rash and/or flu-like symptoms.

Protection

- Wear light colored, long sleeves and pants. Tuck pants into socks or put tape around the cuffs.
- Apply an insect repellent containing DEET to clothing. Follow manufacturer's label.
- If a lot of time will be spent in tick habitat a much stronger repellent containing Permethrin can be used on clothing and will last weeks. Apply to clothing outdoors, wear protective gloves, mask and follow the directions on the label.
- Stay on trails, avoid contact with vegetation.
- Check frequently for ticks while outdoors.
- After an outing, examine your clothing and place in a hot dryer for 20 min. to kill bacteria possibly harboring in infected ticks. Check your skin thoroughly, especially the scalp area.
- Check your pets and remove ticks. Save for later inspection. Discuss a flea and tick prevention program with your veterinarian. Pets can also get Lyme disease.
- In your yard, remove brush and leaf litter or create a buffer zone of wood chips or gravel between forest and lawn or recreational area. Instruct children to stay away from brushy edges of your yard.



# A Big Tree is Down

Mark D. Wagner  
National Mississippi River Museum & Aquarium

Jim Rooks was one of the original naturalists to begin working in Iowa in the early 1970's. He was an avid member of the Association of Interpretive Naturalists (AIN) and later when AIN became the National Association of Interpretation (NAI). He was one of the original founders of IAN, and strongly supported the organization in its early years.

Jim was an avid pheasant and deer hunter and always made nature very exciting for young people as well as seasoned naturalists. Jim was an expert on many subjects and when you got Jim talking on almost any subject, you had better hope you were not in a hurry to leave.

I remember when Jim was recommending me for membership in AIN (you had to be referred in the "old days"), he began my referral by writing Obviously... he could not think what to write next, so it took Jim about a month to finish what he had begun writing.

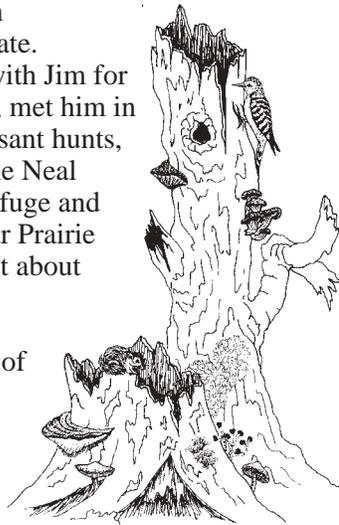
Jim was an excellent writer on natural history, and provided many articles for journals and magazines. He was also an observer, and would have many stories about wildlife behavior and the historical artifacts that he found while hiking in the area that would eventually become the Mines of Spain.

Anyone who knew "Rooks" was his friend, unless they valued profit over environment. Once, to protect 300 – 400 year old oak trees on a hillside, from being torn up by hill climbing motorcyclists, he covered a hillside with stomach contents from cattle slaughtered at the Dubuque Meat Packing Company. That hillside is now part of the Mines of Spain State Recreation Area, which Jim encouraged the DNR to create.

I have corresponded with Jim for years after he left Dubuque, met him in central Iowa for a few pheasant hunts, accompanied him to visit the Neal Smith National Wildlife Refuge and Prairie Learning Center near Prairie City, Iowa, and learned a lot about being a naturalist from Jim.

He is truly a "big tree that is down" in the history of environmental education in the Mid West. He will be missed, but always considered a friend and mentor.

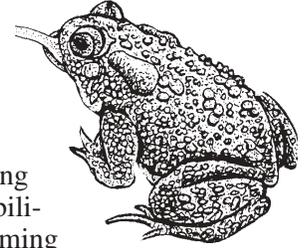
*James (Crittman!) Rooks, beloved father, grandfather, brother, husband and friend, passed away peacefully on March 10, 2005, at Veteran's Medical Center, Milwaukee.*



# An Ounce of Prevention

The Center, Newsletter of the Nature Center Administrators Section of NAI

Recent outbreaks of *E. Coli* illnesses in Florida children who have visited petting zoos have emphasized the need for all facilities housing live animals for exhibits, rehabilitation, or educational programming to emphasize disease prevention.



The following links will take you to the *Compendium of Measures to Prevent Disease Associated with Animals in Public Settings 2005*, from the National Association of State Public Health Veterinarians, Inc.

For Adobe PDF format:

<http://www.cdc.gov/mmwr/PDF/rr/rr5404.pdf>

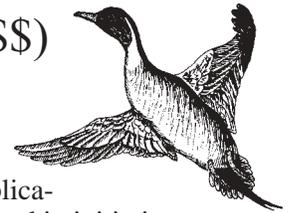
For HTML format:

[http://www.cdc.gov/mmwr/mmwr\\_rr.html](http://www.cdc.gov/mmwr/mmwr_rr.html)

# Nature of Learning Grants Program (\$\$\$)

**Deadline: June 15, 2005**

The National Fish and Wildlife Foundation invites applications from organizations interested in initiating or expanding the Nature of Learning program in their communities. Nature of Learning, the National Wildlife Refuge System's community-based environmental education initiative, seeks to use National Wildlife Refuges as outdoor classrooms to promote a greater understanding of local conservation issues; encourage an interdisciplinary approach to learning that seeks to enhance student academic achievement; use field experiences and student-led stewardship projects to connect classroom lessons to real-world issues; and foster partnerships among local schools, community groups, natural resource professionals, and local businesses. Grants of up to \$5,000 will be awarded on a competitive basis to support start-up expenses associated with new programs. Grants of up to \$3,000 will be awarded on a competitive basis to provide continued support to existing Nature of Learning programs. Schools or nonprofit organizations are eligible to apply for funding. Programs must involve a partnership among a local school(s), community group (e.g., Refuge Support Group), and a National Wildlife Refuge. See the NFWF Web site for complete program information and application materials: <http://www.nfwf.org/programs/tnol.htm>



## Upcoming Workshops

### IOWATER Workshops

Contact: Jacklyn Neely  
515 281 4476  
jacklyn.neely@dnr.state.ia.us

Want to learn how to test water quality in your own backyard? Then join IOWATER! All Level One workshops are based on ten hours training, set-up comfortably over two days. Hours may vary depending on location. Workshop registration fee is \$25 per person or \$35 per team (up to three people). The fee covers all program fees, meals, and testing equipment. Training dates are as follows:

**May 6-7**, Muscatine County  
Environmental Learning Center  
**June 3-4**, Kuehn Conservation Area  
Nature Center (Dallas County)  
**July 18-19**, Jester Park (Polk Co.)

### MLMP Workshop

Contact: Sondra Cabell  
319-636-2617 /  
fontanapark@iowatelecom.net

A Monarch Larva Monitoring Project (MLMP) Workshop will be held **May 21**, 1-4 p.m., at the Fontana Interpretive Nature Center near Hazleton, Iowa. The MLMP began in 1997 at the University of Minnesota, and involves citizens in collecting data on monarch eggs, larvae, and adults during the summer reproduction. This information will help to explain the distribution and abundance patterns of monarch butterflies in North America at times other than migration. This workshop will train participants in the methods used by the MLMP program so that we can monitor populations at the Nature Center and other local sites. Participants will receive a monitoring kit if pre-registered by May 2 (a nearly \$50 value).



### Wings and Wetlands

Contact: Lost Island Prairie Wetland  
Nature Center, 712-837-4866

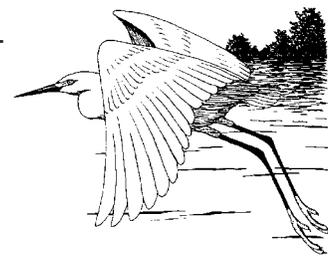
The 11th Annual Wings and Wetlands Festival is scheduled for **May 14-15**. Welcome the coming of spring, celebrate National Wetland Month, and explore the unique prairie pothole region of northwest Iowa. This festival is coordinated over a six county region in Northwest Iowa (Clay, Dickinson, Emmet, Kossuth, O'Brien and Palo Alto). Events held throughout the region include bird hikes, kayaking and canoeing adventures, trumpeter swan releases, live reptiles and amphibians, nature photography, and youth programs. There is also food and door prizes at some locations. Experience first-hand our beautiful lakes, marshes, and upland habitat.

### Projects WILD, WILD Aquatic, and Learning Tree online

Contact: Shannon Hafner  
641-747-2051  
shafner2@netins.net

Teachers, naturalists, youth leaders, and other educators now have a unique opportunity to participate in a Projects WILD, WILD Aquatic, and Learning Tree workshop - online. An eight-week class is offered through Heartland AEA 11. There is a required introductory session **June 4**, from 8 a.m. to noon. at the Heartland AEA 11 Learning Center (6500 Corporate Drive) in Johnston. The rest of the course will be completed online.

Participants will receive all three activity manuals, as well as Iowa supplements that provide additional background information. All materials are correlated to national education standards. Registration deadline is May 23.



### Project AWARE

Contact: Brandon Harland  
515-281-3150;  
Brandon.Harland@dnr.state.ia.us  
www.iowaprojectaware.com

Make a difference - one stretch of river, one piece of trash at a time. Spend one day, the whole week, or anywhere in between on the Little Sioux River, **June 18-25**. Volunteers will participate in water quality and wildlife monitoring, education programs, and river cleanup.

### Midwest Environmental Education Conference

Contact: Carol Schutte  
641-422-4319  
schutcar@niacc.edu

The 2005 Midwest Environmental Education Conference will be held **July 20-23**, at the North Iowa Area Community College in Mason City. Dr. John Peterson Myers of Our Stolen Future organization, Chad Pregracke of Living Lands and Waters, and James Balog, internationally-known wildlife photographer, are confirmed keynote speakers at this conference. Field trips in the planning stages include a canoe float, wind farm/alternative energy, tallgrass prairie/waterfowl production areas, sustainable agriculture, area nature centers, a bike trip, Clear Lake ride on Lady of the Lake with water quality discussions/activities, and landfill and Superfund reclamation sites. Tentative pre-conference workshops are scheduled, and include Invertebrates in the Classroom, Monarchs in the Classroom, and Project Wet.





# IAN Summer Workshop 2005

Monday, August 8-10  
Willow Lake Recreation Area

Harrison County Conservation Board  
Woodbine, Iowa

Questions? Contact one of the Naturalists planning the workshop.	Connie Betts 712-647-2785 <a href="mailto:cbetts@HarrisonCountyParks.org">cbetts@HarrisonCountyParks.org</a>	Christina Groen 712-744-3403 <a href="mailto:cgroen@fmctc.com">cgroen@fmctc.com</a>	Kelly Sonnichsen 712-263-3409 <a href="mailto:kmac@frontiernet.net">kmac@frontiernet.net</a>
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## Monday, August 8

- 1:00 p.m.: **Arrive at Willow Lake and unpack**
- 1:30 p.m.: **Tour of the Loess Hills**
- Preparation Canyon State Park
  - Loess Hills State Forest Visitor's Center
- 5-6:00 p.m.: **Supper – Dutch oven cooking**
- Evening: **Optional activities and social time**
- View *America's Lost Landscape: The Tallgrass Prairie*
  - Night eyes contest



**Session descriptions - Page 8!**  
**Registration and directions page 9!**  
**Accommodations - page 2!**

## Tuesday, August 9

- 8:00 a.m.: **Breakfast**
- Pancakes, eggs, and bacon
- 9:00 a.m.: **Create Your Own Habitat Displays for Mounted Specimens and for EE Programs**  
Barb Tagami, Dickinson County Naturalist
- 10:30 a.m.: **Insect Collecting**  
Steve Hummel, Ida County Naturalist
- Noon a.m.: **Lunch**
- Nacho/Taco Bar
- 1:00 p.m.: **Leave for DeSoto National Wildlife Refuge**
- 5-6:00 p.m.: **Back for supper**
- Hamburgers, brats, and chips
- Evening: **Social time**
- Bring nighttime program ideas and activities to share.
  - Work more on insect collections.

## Wednesday, August 10

- 8:00 a.m.: **Breakfast and pack**
- Bagels and muffins
- 9:00 a.m.: **Leave for Smitty Bee**
- 11:00 a.m.: **Leave for Dinesen Prairie**
- 11:15 a.m.: **Explore Dinesen Praire**
- Noon: **Picnic at Dinesen**
- Chicken and salads
- 12:30 p.m.: **Nishna Bend Nature Center or depart**

### **What to bring**

Bring the "normal" IAN workshop items – snacks, table service, toiletries, etc. You will also need to bring a pillow and sleeping bag or bedding for the cabins. We will be doing some hiking so bring comfortable shoes. If you have supplies for insect collecting (pins, nets, spreading boards, kill jars) please bring them. Please bring a flashlight for the night eyes activity and also for the restroom at night if you are in one of the smaller cabins. Willow Lake does have a beach so bring a swimming suit if you are interested.



## IAN Summer Workshop 2005 Activity and Site Descriptions



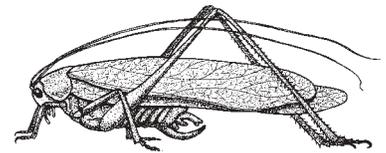
Preparation Canyon: Preparation Canyon is a 344-acre state park where the former town of Preparation was located. Charles B. Thompson and a group of fifty to sixty other Mormon families started the town in 1853. Thompson talked all of the inhabitants into giving their deeds and possessions to him. He became a very rich man. Eventually the people realized their mistake and decided to lynch Thompson. He heard of this and left town. In 1856 the Iowa Supreme Court divided the land equally between the remaining families of Preparation. The town started to grow again, but then faded, and was pretty much gone by 1900. Former landowners sold the land to the state and it was made into a state park. We will do some hiking at Preparation Canyon. It is surrounded by the Loess Hills and lies on the north end of Loess Hills Pioneer State Forest. We will also make a stop at the Loess Hills State Forest Visitor's Center.

America's Lost Landscape: The Tallgrass Prairie: This tallgrass prairie documentary was produced in association with the University of Northern Iowa, the University of Northern Iowa Foundation, and the University of Northern Iowa Native Roadside Vegetation Center Prairie Institute. The documentary is approximately an hour long and gives a great history on the tallgrass prairie and its transformation to farmland.

Night Eyes Contest: Who knows animal eyes the best? Compete against other Naturalists in identifying reflective animal eyes at night for a prize.

Create Your Own Habitat Displays for Your Mounted Specimens and for EE Programs: Create a visual, artistic, educational tool using tallgrass prairie forbs and grasses that can be transportable or used in displays. Barb Tagami is also a taxidermist and has worked at the Cabela's in Owatonna, Minnesota as a Finish Artist for their mounts and habitat displays.

Insect Collecting: Learn the basics of insect collecting from one of our insect experts, Steve Hummel. We will work on our insect collections. We will do some collecting and then go through identification and labeling techniques. Steve will also have information available on kill jars and sources of insect collection supplies.



DeSoto National Wildlife Refuge: DeSoto NWR is located on the Iowa/Nebraska border. This 7823 acre park is best known for being a stop for up to a half million snow geese during the fall migration. Many other waterfowl also stop here as they migrate. DeSoto is the excavation site of the *Bertrand*, a steamboat that sunk in 1860. The contents of the *Bertrand* are on display at the visitor's center. At DeSoto we are hoping to have a behind the scenes tour and learn about some of the current research projects taking place at DeSoto. There are also plenty of hiking and driving trails.

Smitty Bee: Located in Defiance, Iowa, Smitty Bee is a nationally recognized producer of farm fresh honey. We will tour their bottling facility and go through a candle making demonstration. There is a gift shop with lots of honey and beeswax products.

Dinesen Prairie: Dinesen Prairie is a twenty-one acre prairie that was donated to the Shelby County Conservation Board in 1984 by Derald Dinesen. This land is a prairie remnant that is home to many tallgrass prairie grasses and forbs, including the rare Prairie Fringed Orchid. In 1999, Dinesen Prairie had the number one concentration of this forb.

Nishna Bend Nature Center: If you have time before heading home, stop at Nishna Bend Recreation Area's Nature Center to see the first confirmed Mountain Lion in Iowa since 1867. This Mountain Lion was hit by a car on the edge of Harlan in August of 2001. The nature center is small, but does have other displays too. Nishna Bend Nature Center is approximately one mile off of Highway 59 as you head for the interstate.



## IAN Summer Workshop 2005 Registration Form

Name: \_\_\_\_\_ County: \_\_\_\_\_  
 Address: \_\_\_\_\_ City/State/Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ email: \_\_\_\_\_

### Monday, August 8

Dinner: Dutch Oven cooking \_\_\_\_\_ \$7.00

### Tuesday, August 9

Breakfast: Pancakes/Eggs/Bacon \_\_\_\_\_ \$4.00

Lunch: Taco/Nacho Bar \_\_\_\_\_ \$5.00

Dinner: Brats/Burgers \_\_\_\_\_ \$5.00

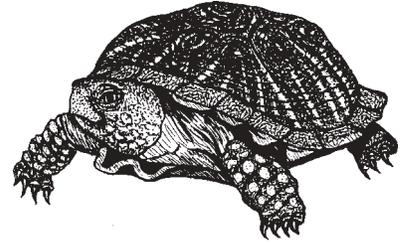
### Wednesday, August 10

Breakfast: Bagels/Muffins \_\_\_\_\_ \$4.00

Lunch: Chicken/Salads \_\_\_\_\_ \$5.00

Workshop Supplies \_\_\_\_\_ \$10.00 (REQUIRED)

(For insect collecting and prairie plant displays)



Please make checks out to **BVEF** and mail payment and registration to Kelly Sonnichsen, Naturalist, 2237 Yellow Smoke Road, Denison, Iowa 51442. Registration deadline: August 1, 2005.

### Directions to Willow Lake

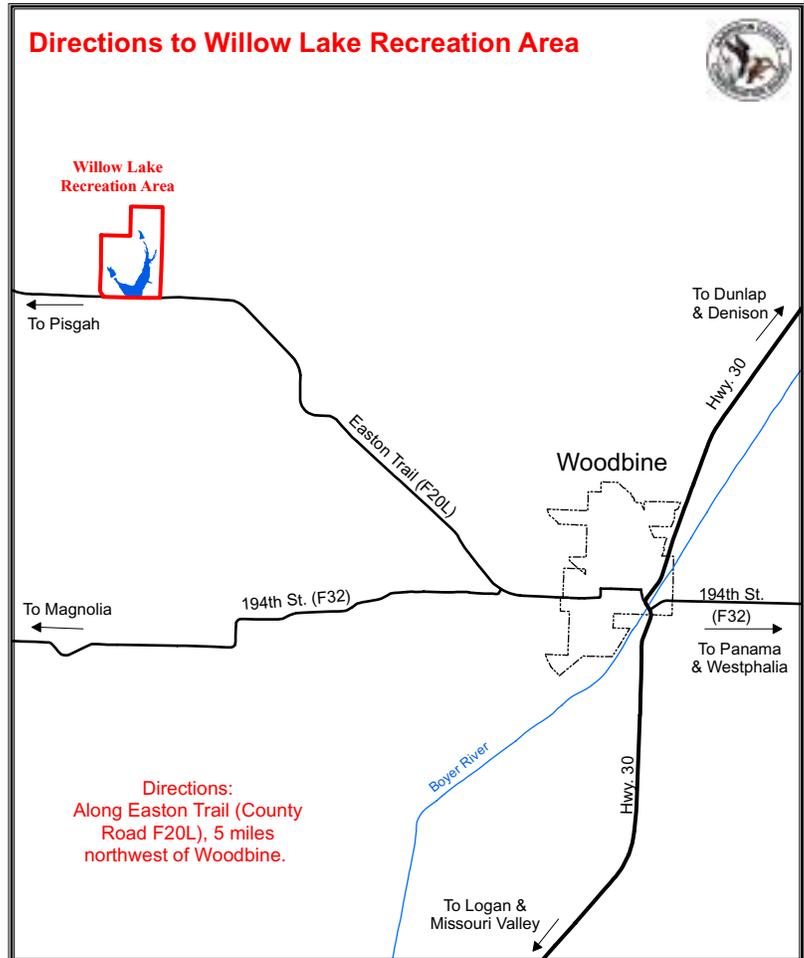
From Woodbine/Hwy 30 heading east/northeast: When you come to the southeast side of Woodbine DO NOT follow the Hwy 30 curve; instead go straight and cross over the railroad tracks. Take a left after the second sets of railroad tracks (two sets each time) on to County Road F20L to head west through and out of Woodbine. (There are signs for Willow Lake where you need to turn.) Take F20L approximately six miles outside of Woodbine to Willow Lake. Take the third entrance to go to the large cabins. Follow the brown arrowhead signs.

From Woodbine/Hwy 30 west/southwest: Go along Woodbine to the southeast side of town. Take the last right on the edge of town, right before the Boyer River bridge. This will basically be a U-turn. Cross both sets of railroad crossings (two sets each) and follow the directions above.

From I-29 going south: Take the exit for Little Sioux and County Road F20 (exit 95). Take F20 east to Pisgah. In Pisgah take a left and then take a right on to F20L, which will take you directly to Willow Lake. The first park entrance that you come to will be for the large cabins where we will meet.

From I-29 going north: Take exit #75 for Missouri Valley/Hwy 30 and head east. Take Highway 30 to Woodbine east/northeast and follow the directions from Woodbine.

From I-80/I-680 either direction: Traveling west on I-80 take the exit for I-680. Follow I-680 to the exit for Beebeetown/County Road L34 (exit 21) and head north. Take L34 to Hwy 30. Head east (northeast) on Hwy 30 to Woodbine. Follow the directions to Willow Lake from Woodbine.





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**N**aturalists - planting the seed of environmental stewardship by communicating the meanings and relationships in natural, cultural, and historical resources.

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