

NATURALIST QUARTERLY

SUMMER 2015



Creek Critters

See page 5 for activities during Creek Week, June 6 - 14

The Audubon Naturalist Society inspires residents of the greater Washington, DC region to appreciate, understand, and protect their natural environment through outdoor experiences, education, and advocacy.

HEADQUARTERS

Woodend, a 40-acre wildlife sanctuary in Chevy Chase, MD

OFFICE HOURS

Monday-Friday 9 AM-5 PM

STORE HOURS

Monday-Friday 10 AM-5 PM

Saturday 9 AM-5 PM

Sunday 12-5 PM

GROUND'S HOURS

Dawn to dusk

ANS MEMBERSHIP

Student \$15

Individual \$50

Family \$65

Nature Steward \$100

Audubon Advocate \$200

Sanctuary Guardian \$500

Naturalists Council \$1,000

Preservationist \$1,000+

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ISSN 0888-6555

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Membership x12

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Rentals x38

Volunteers x30

Contributions x31

Rust Sanctuary 703-669-0000

E-mail unusual bird sightings to
Voice@anshome.org

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NATURALIST QUARTERLY

ANShome.org Summer 2015

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COVER ANS Volunteer Frank Sanford with young naturalists looking for creek critters during last summer's field trial of the Creek Critters app with Rock Creek Conservancy. Photo courtesy of Rock Creek Conservancy.



FRIEND ANS ON FACEBOOK



ANS was recertified as one of the "finest smaller charities Greater Washington has to offer" by the Catalogue for Philanthropy.

From the Director

Summer ushers in wonderful natural phenomena—long sunlit days of the solstice, lightning bugs at dusk and evenings filled with cricket song. This summer in particular heralds exciting innovations by Audubon Naturalist Society that will energize and grow the community of people who treasure the natural world and work to preserve it. I'm excited to tell you about all the new endeavors afoot thanks to leadership, partnership and stewardship by members, volunteers and staff in our organization.



First and foremost, my thanks to Dick Raines, President of Carfax, for his outstanding leadership in philanthropy that enabled ANS to develop the Creek Critters smartphone app. An avid nature enthusiast, Dick harkened back to his days as a water quality monitor and saw the potential for linking the "WOW!" factor of finding living things in streams with the promise of technology. The Raines Family Fund sponsored our work on Creek Critters, and supports our leadership in rolling out the app with partners in the region and across the Northeast with other independent Audubon Societies. We aim to engage 1500 new people in stream health monitoring by the end of 2015 – think of the advocacy impact those new faces will have on clean water policy and stream stewardship!

ANS is also taking the lead in helping families connect with nature – an affinity quickly losing ground with younger generations. Building on our outstanding early childhood work at Audubon Nature Preschool, plans are in the works for a Nature Play Space in the Woods at Woodend. This playspace in the woods is where protective parents will feel safe and secure while their children enjoy full immersion in the log hopping, mud digging, fort building exploration of nature most of us grew up enjoying. A committee of experts will plan the space, and our goals include regular visits for underserved children and their parents. Along with this dedicated area for young families, we're also working to renovate the second floor of the Teale Center to create more classroom space for young nature explorers.

And as always, we must focus on stewardship of our own greatest assets, our nature sanctuaries. I'm pleased to report we recently installed conservation landscaping at Woodend to trap stormwater run off. We also secured installation of a permeable sidewalk along Woodend's northern boundary on Brierly Road. Early evidence suggests that the Woodend stream, dubbed Clean Drinking Stream, is flowing more steadily since the sidewalk was installed. I am delighted to tell you we've received our first pledge to fund a deer fence at Woodend – step one in bringing back biodiversity to our 40-acre oasis inside the Beltway.

Thanks to each of you for the ways you lend your leadership, partnership and stewardship to ANS. From teachers to trail volunteers, native plant gardeners to preschool families, your membership helps us engage people in outdoor experiences, nature education and conservation advocacy. Come visit me at headquarters this summer and you'll enjoy another wonderful natural phenomena – the delightful sound of hundreds of children enjoying Audubon Nature Summer Camp!



LETTERS

A.V.I.N.T. - A Very Important (and Happy) Nature Traveler

Every aspect of the trip was well planned and executed. The pre-trip information was thorough, Carol Hayes provided the answers to all questions I asked, and e-mail communications were direct and confirmed all travel plans. Although I was unable to attend the pre-trip meeting, I received the materials handed out and notes from the meeting.

From the time I arrived in Costa Rica until I departed 16 days later, every aspect of the trip was executed with care and great skill. Stephanie Mason, ANS' Senior Naturalist, is the consummate professional nature travel leader. She read the personalities and needs of the individuals in her group, adjusted the various opportunities to meet those needs, easing situations to assure smooth relations within the group, and seeing to the well-being of the group as a whole as well as the individuals.

Stephanie's knowledge of the flora and fauna of Costa Rica is amazing. She could identify plants, animals, birds, and insects; then relate a story about the particular item of interest, and relate it to its "North American cousin." Her delight in what she was seeing was genuine and remained so throughout the trip. On the last morning in the field she noticed a tiny orchid growing on a tree trunk. After calling our attention to it, taking pictures of it, she exclaimed, "That's the prettiest orchid I have ever seen."

Later in the morning, Stephanie and the Senior Costa Rican guide scoured four volumes of orchid books attempting to identify the little orchid.

Stephanie put the welfare of her charges ahead of her own needs at all times. When a bird was sighted in a spotting scope, Stephanie did not take a turn looking in the scope until all members of the group had had multiple turns at the scope. She walked with the slowest of the group, attended to those who needed some extra attention; she was prepared to be "best friends" with any members who "did not fit or socialize well." Fortunately, this effort was not required.

This was an once-in-a-lifetime trip for me and I am more than satisfied with the experience. I could not ask for more.

Gretchen Alexander

Glenview, IL

The writer is ANS Executive Director Lisa Alexander's mom.

STAFF UPDATES: Audubon Naturalist Society welcomed **Monica Billger** as our new Virginia Conservation Advocate.

Monica brings a wealth of advocacy, grassroots outreach and organizing experience to ANS. She lives with her family near Huntley Meadows in Fairfax County, and is passionate about community engagement for clean streams and green neighborhoods. In early-April, ANS said farewell to **Richard Goldberg**, Director of Finance and Administration.

Creek Critters

by Kelli Holsendolph

Can you identify a common netspinner caddisfly, fishfly larva or riffle beetle larva?

With Audubon Naturalist Society's new Creek Critters smartphone app the answer is a resounding yes. And we're hoping the app gets even more people throughout the DC metro region out identifying critters that live in their creeks—creating stream health reports for their neighborhood streams and learning how to protect them.

June 6 through June 14, 2015 is ANS Creek Week! We're officially launching our new Creek Critters app with a network of local and civic group partners hosting stream-side events around the region.

Water quality monitoring is nothing new for Audubon Naturalist Society (ANS). Since the early 1990s, ANS has operated a Water Quality Monitoring program throughout Montgomery County and in parts of DC. It is one of the largest and longest-running citizen science programs in the country. More than 193 ANS volunteers gather data on the water quality of 29 local streams in the DC metro region.

The Creek Critters app is a new, easy, modern-day way of engaging people in water quality monitoring and protecting and restoring their local streams. The app shows users how to catch the small organisms that live in freshwater streams. It walks users through identifying these benthic macroinvertebrates, or creek critters, through a series of questions: Does it have a shell? Does it look like a worm? Once users drill down on what creek critter they might have caught, they learn its name, characteristics, get a sense of its size and whether it can live in clean or polluted streams.

"It's hard to point to a single 'coolest thing' about the app, but I think it is really cool that novices can successfully use a smartphone app to collect and identify common stream macroinvertebrates – and in the process, create stream health reports and submit and share their data," said Gregg Trilling, ANS Environmental Education program manager.

Gregg took the reins of the project from former ANS Educator Maria Sgambati who spearheaded the development of the Creek Critters app with App Developer Baird Straughan and thanks to the generous support of Dick Raines and the Raines Family Fund.

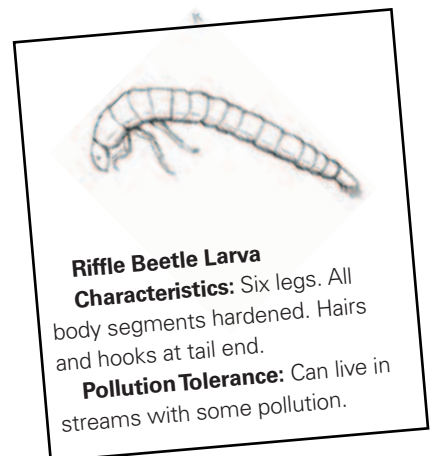
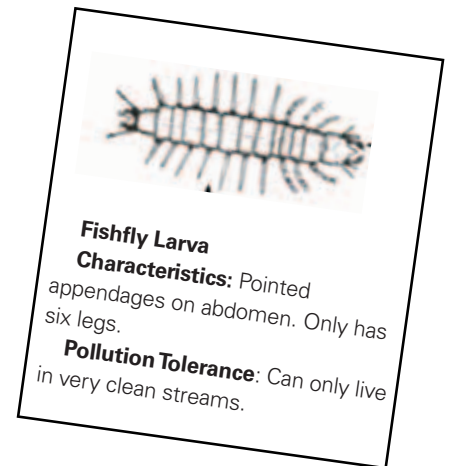
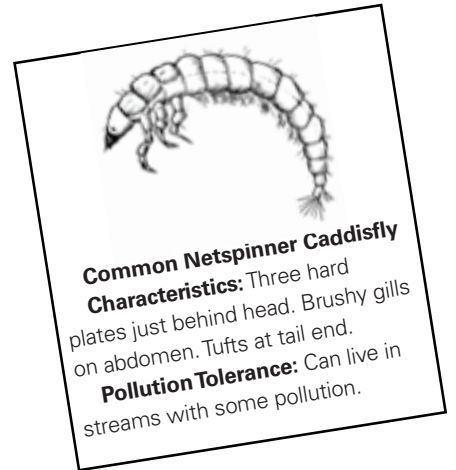
For a little more than two years, Maria, Gregg and Baird have moved the app through several cycles of development, field trials and revisions.

"We had a great time working with Rock Creek Conservancy last summer when they helped organize a field trial that drew more than fifty participants," noted Trilling.

Now the app is ready to launch! During Creek Week, ANS hopes to engage hundreds of people throughout the region in Creek Critters events that help them explore and learn about their neighborhood streams. Partners, such as Rock Creek Conservancy, Little Falls Watershed Alliance, the Fairfax County Parks Authority and others, will help us officially roll out the app.

"Together with our partners, we aim to inspire Creek Critters users to join an ever-growing community of stream stewards and clean water advocates," added Trilling.

Download ANS's Creek Critters app for FREE from the Apple App Store for iPhone users or Google Play for Android devices.



Creek Week Events

PLEASE
RSVP!

Saturday, June 6, 2015

Creek Critters Family Pond Program | 10:30 am to 11:30 am
Woodend Nature Sanctuary (Chevy Chase, Maryland)
Audubon Naturalist Society. No registration required

Rock Creek Conservancy: Creek Critters - Macroinvertebrate Sampling Made Easy | 10:00 am to 12:00 noon
Joseph's Branch section of Rock Creek in Montgomery County
Rock Creek Conservancy | Questions? Contact Karen Zeiter at 301-775-2960 |
Register from the event calendar at rockcreekconservancy.org

Neighbors of Northwest Branch Creek Critters Blitz | 9:30 am to 12:00 noon
Northwest Branch (Wheaton, Maryland)
Neighbors of Northwest Branch | Questions? Contact James Graham at iceagewasa@verizon.net | Registration closed

Saturday, June 13, 2015

Rachel Carson Conservation Park Creek Critters Blitz | 1:00 pm to 3:00 pm
Rachel Carson Conservation Park (Brookeville, Maryland)
Audubon Naturalist Society | Questions? Contact Peter Viechnicki at peterdv2@hushmail.com | No registration required

Who is Living in the Creek? Creek Critters Blitz | 10:00 am to 12:00 noon
Little Falls (Bethesda, Maryland)
Meet at the intersection of Little Falls Parkway and Massachusetts Avenue.
Little Falls Watershed Alliance | Questions? Contact Sarah Morse at morskath@gmail.com |
Register at www.lfwa.org/event/who-living-creek-creek-critters-blitz

Rock Creek Conservancy: Creek Critters - Macroinvertebrate Sampling Made Easy | 10:00 am to 12:00 noon
Ray's Meadow (Chevy Chase, Maryland)
Meet in the fields behind Ohr Kodesh Congregation at 8300 Meadowbrook Lane, Chevy Chase, MD 20815. Street parking is available in the neighborhood.
Rock Creek Conservancy | Questions? Contact Karen Zeiter at 301-775-2960 |
Register from event calendar at rockcreekconservancy.org

Groundwork Anacostia Creek Critters Blitz
Watts Branch (Washington, DC)
Groundwork Anacostia | Questions? Contact Dominique Skinner at dominique@groundworkdc.org |
Register from groundworkdc.org

Friends of Accotink Creek: Biological Monitoring and Creek Critters Blitz | 9:30 am to 11:30 am
Lake Accotink Park (Springfield, Virginia)
Meet at the parking lot behind the Lake Accotink Park Administrative Building.
Friends of Accotink Creek | Questions? Contact Ted Welch at twbeaver1@gmail.com |
Register at www.accotink.org/cgi-bin/cal.pl

Fairfax County Parks South Run RECenter: Creek Critters Blitz | 10:00 am to 12:00 noon
South Run RECenter (Springfield, Virginia)
Fairfax County Parks Authority | Questions? Contact Veronica Tangiri at vera.tangiri@gmail.com |
Register from fairfaxcounty.gov/parks

Sunday, June 14, 2015

Fairfax County Scott's Run Nature Preserve: Creek Critters Blitz | 2:00 pm to 4:00pm
Scott's Run Nature Preserve (McLean, Virginia)
NOVA Soil and Water Conservation District/Fairfax County Parks Authority |
Questions? Contact Dan Schwartz at daniel.schwartz@fairfaxcounty.gov | Register from fairfaxcounty.gov/nvswcd

Conservation

Communities for Clean Streams

Audubon Naturalist Society (ANS) has charted out a new direction for conservation advocacy. Introducing... Communities for Clean Streams. Our goals for this campaign are as follows:

- Increase the number of people and partners engaged in our work;
- Produce more data, voices and examples of local clean water challenges; and
- Change local clean water policies and individuals' behaviors to produce cleaner streams.

At the center of the Communities for Clean Streams campaign is advocacy for the restoration and protection of local streams and watersheds. For the next year or so, ANS will focus its efforts on advocating for changes in state stormwater management manuals in Maryland, DC and Virginia to include tree planting as a legitimate stormwater management device.

With the Communities for Clean Streams campaign, ANS is also adding a few other tools to our Conservation Advocacy toolbox!

Creek Critters

The new Creek Critters smartphone app is an outreach tool to make it easier for people to engage in protecting and restoring their local streams. During Creek Week, June 6 through June 14, 2015, we will launch the new

app with a network of local and civic partners throughout the region. Together with our partners, we aim to inspire Creek Critters users to join an ever-growing community of stream stewards and clean water advocates.

Watershed Advocacy Boot Camps

On March 20, 2015, we held our first Watershed Advocacy Boot Camp at Woodend with eleven local civic, watershed and environmental groups. The boot camp was designed to help empower these community groups to become successful advocates for their own local watershed issues. Thirty three participants were trained by ANS staff from Conservation, Environmental Education, Communications and Development on crafting their own local advocacy campaign plan and how to use the Creek Critters app as an engagement tool.

A second Watershed Advocacy Workshop was held on May 28, 2015 in Fairfax County with our Virginia partners.

Stream Snapshots

Right now, we are piloting our first Stream Snapshot of Quincy Run in Prince George's County with the Friends of Quincy Run. This is another community engagement tool and stream health tracking device. Stay tuned for the roll out of this Stream Snapshot and others to come.

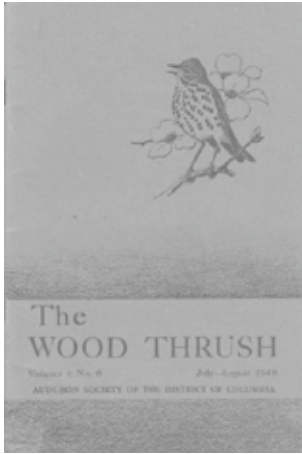


Participants at our first Watershed Advocacy Boot Camp, March 20. Photo courtesy of Safe Grow Montgomery.

DC's Elusive Official Bird

By Steve Dryden

The Wood Thrush cover from 1949



It's breeding season, and Washington DC's official bird, the Wood Thrush, is back in town. Its unusually beautiful call begins just before dawn and can be heard throughout the day in Rock Creek Park and other heavily wooded areas.

Don't worry, though, if you've never seen one. The Wood Thrush, our city's First Bird since 1967, is a migrant that's only here for about six months to find a mate, nest, and raise young. While the flute-like song of the male Wood Thrush,

once you know it, is unmistakable, both the male and female are well-camouflaged in similar earth tones, and in any event aren't happy being close to humans during breeding. The Wood Thrush prefers well-hidden, leafy places to open backyards.

Then, after its young are fledged and independent, the Wood Thrush wings back to Mexico and Central America in the early fall, not to appear again until spring.

The Wood Thrush is also elusive because its numbers in the Washington Metro region have dropped sharply in the past half century, according to studies carried out by the U.S. Patuxent Wildlife Research Center in Laurel, Maryland. Since 1966, when the center began its North American Breeding Bird Survey, Wood Thrush numbers have declined between two and three percent annually in Virginia and Maryland.

Only recently did I learn of the challenges facing the Wood Thrush. The survey of bird numbers by the Patuxent Wildlife Research Center doesn't even target the District, and the reason is telling: bird counters do their work by car and need to be able to stop along the shoulders of rural or semi-rural roads to listen for bird calls.

"There's no habitat left along roadsides," or shoulders, for that matter, in Washington for the surveyors to use, said David Ziolkowski Jr., program ornithologist at the Patuxent center.

Though Ziolkowski still sees the occasional Wood Thrush in Rock Creek Park, it's evident to him and other researchers that the bird's numbers are shrinking because of the loss of so many wooded areas in the region, along with a corresponding disappearance of forest sanctuaries in Mexico and Central America.

Greg Butcher, one of the federal government's migratory bird experts, surveyed an area of Rock Creek Park near Peirce Mill several years ago to count the pairs of courting Wood Thrush. He was surprised to find only a handful.

"Among all the migrants, the plight of the Wood Thrush is particularly worrisome," Greg says. "The population is declining at an estimated rate of 2.3 percent a year in North America—which brings the population down to nine million individuals, about 30 percent of what it was 40 years ago."

A number of efforts are underway both locally and internationally to help the Wood Thrush. The Smithsonian Migratory Bird Center has created a shade-grown coffee campaign, which advocates switching to beans that aren't from clear-cut plantations in Central America and elsewhere. Migrant birds desperately need tree cover in their winter homes.

The National Audubon Society has named the Wood Thrush as a "priority species" for conservation along the Atlantic Flyway, which stretches from the eastern Canadian coast south to Argentina.

A few decades ago, the sight of a Bald Eagle in the DC area would have been very rare. Today, with federal protection and decreased use of certain pesticides, eagles are breeding along the Anacostia River. Here's hoping Washington's long-admired Wood Thrush can make a similar comeback. And that I may finally see one. For Dryden's entire article see: [anshome.org/images/naturalist/Wood Thrush_Steve Dryden.pdf](http://anshome.org/images/naturalist/Wood%20Thrush_Steve%20Dryden.pdf).

Steve Dryden is director of Rock Creek Songbirds, a tree planting and outreach project created with support from the Audubon Toyota TogetherGreen program. Dryden was also ANS media relations coordinator from 1998-2005.



Mundo Verde charter school student planting a northern red oak as part of the Rock Creek Songbirds project to improve habitat in Rock Creek National Park for Wood Thrush and other migratory birds. Photo by Steve Dryden.

Children & Family Programs

You and your kids can unplug and explore nature every day at Woodend and Rust nature sanctuaries, open dawn to dusk for free, 365 days a year. Our trained naturalists and excellent volunteers are eager to introduce children to nature in all kinds of ways – through the Audubon Nature Preschool, Summer Camp, Nature Birthday Parties, and Family programs, and at your children's school through School Programs and GreenKids. Consider having your PTA or PTO sponsor a nature activity for your school!

Nature Birthday Parties

Give your child the gift of nature with a party at one of our sanctuaries!

- Ages 4-10
- Weekends and Fridays year-round
- Members \$225; Nonmembers \$260
- Choose among many nature themes

BOOK ONLINE!

Download a birthday party brochure or book online at ANSHome.org/birthday.

Chevy Chase, MD: 301-652-9188 x10
Leesburg, VA: 703-669-0000



ANS EE photo

Audubon Afterschool MD Nature Clubs

ANSHome.org/afterschool

Let ANS bring the wonder of nature to your school with our Afterschool Nature Clubs! Clubs run for a 6-week period at your school for 1-2 hours each week. Contact Karen Vernon at karen.vernon@anshome.org or 301-652-9188 x15 for more info.

FREE!

Weekend Walks in the Woods!



AUDUBON NATURALIST SOCIETY

- First Saturday of the month, 9am-10am
- Free, no registration required
- All ages welcome!
- Each month, an ANS naturalist will cover a different topic, such as deer, fungi, trees, insects, and birds
- Meet at the gazebo by the Audubon Naturalist Shop



Nature Camp 2015 53rd Season

Burgundy Center for Wildlife Studies



SENIOR PROGRAM (Ages 11-15)

Session 1: Sunday, June 21 - Saturday, July 4

Session 2: Tuesday, July 7 - Tuesday, July 21

Session 3: Tuesday, July 28 - Monday, August 10 FULL

JUNIOR PROGRAM (Ages 8-10)

Sunday, August 16 - Saturday, August 22 FULL

ADULT WEEKEND (Ages 21+)

Friday, July 24 - Sunday, July 26

Why should only children get to go to camp?
Enjoy a weekend in the cool green mountain woods of West Virginia!

Roam the ridges Taste wild edibles Learn bird songs
Leaf print your T-shirt Sketch by the stream

Knowledgeable staff, delicious food, beautiful surroundings

FOR MORE INFORMATION

BCWS 3700 Burgundy Rd., Alexandria, VA 22303
burgundycenter.org ♦ 703-842-0470

Nature Backpacks!

Visit our Naturalist Shop to check out a backpack that will have tools and activities you and your family can use to explore nature right here at Woodend Sanctuary! Backpacks are free for check-out in the shop but must be returned by 4:30 pm.

Summer Camp 2015

Space available!

Pre-K/K PM camps and high school camps have the most availability. Register at www.anshome.org/camp.



Camp staff conducted a three day camp out training in western Maryland in April. As our camp out and remote programs increase for older campers we want to ensure that we have standardized practices and materials in place to ensure safety and the best outdoor instruction. Six staff members followed the routes used for our very popular Mountain Outpost camps, including hiking the tallest peak in Maryland (Backbone Mountain), summiting High Rock and enjoying Swallow Falls. A rainy day also gave us the opportunity to train on the eventualities of leaking tents and wet sleeping bags, cooking and fire building in the rain!



ANS Youth Education Director Karen Vernon gets the group underway for the Bird Eggstravaganza, one of several new events for the 2015 Bloomin' Birdathon. Photo by Cathy Grubman.



...and they're off! Photo by Cathy Grubman.

GreenKids

An Environmental Program in Search of ... a Few Good Montgomery & Loudoun County Public Schools

Would your school benefit from these FREE services?

- Environmental activities that meet MCPS & LCPS standards
- Two years of free classroom visits from Audubon naturalists
- Materials funds for Schoolyard Projects
- Field trip subsidies to Audubon Nature Sanctuaries

Principals, teachers, and parents interested in having their schools join GreenKids, contact Diane Lill, Project Director, at diane.lill@anshome.org. For more information, visit ansgreenkids.org.



Congratulation to Newport Mill Middle School, which recently became the eighth MCPS Middle School to be certified as a **Maryland Green School**, as a result of partnership with GreenKids. The nationally recognized Maryland Green Schools program, administered by the Maryland Association for Environmental and Outdoor Education, recognizes schools that empower students to be environmental stewards through sustainable practices and environmental literacy.

Re-certification is offered every four years and requires schools to meet the same rigorous requirements as the initial certification. This year, we congratulate ten GreenKids schools that earned re-certification awards, providing a real testament to the long-term sustainability fostered by the GreenKids partnership: Arcola, Oakland Terrace, Jackson Road, Lakewood, Greenwood, Rock Creek Forest, and Rolling Terrace Elementary Schools; and B-CC, Blair, and Northwood High Schools!

In addition, **ANS achieved our second re-certification as a Maryland Green Center**, a distinction that recognizes our hard work in environmental education, sustainability practices, community engagement, and support of the Maryland Green Schools program.

We are so proud of all of our Maryland Green Schools and grateful for our on-going collaboration with MCPS Outdoor Environmental Education Programs and MCPS School Energy & Recycling Teams in promoting a green school culture throughout Montgomery County.



Gina Riazi



Bjorn Busk

Nature Note!

The box turtles at Woodend have emerged from their hibernation homes in the ground beneath leaf litter and may now be spotted on the sanctuary. Keep your eyes out for this particular box turtle with a notch in its shell, who has been seen around the mansion and on the trail by the amphitheater. Fun Fact: The male box turtle has red eyes (irises), while the females are usually yellowish brown.

Changes to the Woodend Pond

The pond underwent a planting project in late May to help restore the eroded banks of the pond. Keep your eyes open for new Sweet Buttonbush, Sensitive Fern, Cinnamon Fern, Yellow Sneezeweed, and Spicebush planted around the pond area. Rain gardens were also installed on the banks of the pond to slow runoff. Come take a look at the restoration efforts, and see the banks of the pond transform! Our dragonflies will have habitat to perch on, butterflies will drink nectar from the flowers, and the pond water will be cleaner with more plants filtering pollutants from the runoff.



ANS EE photo



The Audubon Nature Preschool offers programs for children ages 2½ to 5 years. Children benefit from exploring the natural surroundings of the 40-acre sanctuary, which offer endless opportunities for investigation and discovery.

The Audubon Nature Preschool builds on children's inherent curiosity about the world by using hands-on, nature-based activities to foster social, physical, and academic skill development.

All Nature Preschool programs run September-May and follow the MCPS calendar.

Drop-off Programs

4-Day AM and PM Classes

3½–5 year olds

Mondays through Thursdays

Morning program, 8:45-11:45 am

Afternoon program, 12:45-3:15 pm

Parent and Child Programs

Tagalong Thursdays

4 years old and younger

Sibling discount eligible

Thursdays, 9:30-11 am

Parent-Tot Fridays

2½–3½ years old

Fridays, 9:30-11:30 am

QUESTIONS?

Call 301-652-9188 x32 or visit our website www.ANShome.org/preschool.

APPLY ONLINE

ANSHOME.ORG/PRESCHOOL



ANS EE photo

Audubon Environmental Science Programs

Explore nature with your students!

Bring your class to Woodend or Rust Sanctuary for a hands-on field trip experience, or let us come to you with our Naturalist in Your Classroom program! All of our programs are correlated with Montgomery County Curriculum 2.0, the Next Generation Science Standards and the Virginia Science Standards of Learning.

NEW THIS YEAR - BOOK YOUR PROGRAM ONLINE!

Our 2014-2015 school program brochure is available at ANShome.org/school. **New in-class programs for 2014-2015!**

Stone and Holt Weeks Scholarship

The Stone and Holt Weeks Nature Field Trip Scholarship is awarded once a semester to a DC public or charter school for students in Pre-K through 2nd grade and covers up to \$1,000 of program and bus transportation fees. To learn more about this scholarship opportunity, visit ANShome.org/school.

Rust / Northern Virginia



**RUST
NATURE
SANCTUARY**

KIDS GROW BETTER OUTSIDE

703-669-0000 | ANShome.org/Rust
802 Childrens Center Road, Leesburg, Virginia

Fresh Air Kids – Two Locations!

Children are born naturalists. The Audubon Naturalist Society builds on children’s inherent curiosity about the world by using hands-on, nature-based activities to foster social, physical, and academic skill development. Our Fresh Air Kids Class is for children ages 5 and younger along with a parent or caregiver. Classes might involve crafts, songs, books and always a hike. Bring your lunch or snack. Mingle and meet other caregivers!

Rust Sanctuary, Leesburg ,VA
Fridays, September 25-November 20 (10-11:30 am)
No class November 13
Cost: \$100 (siblings 21 months and older \$85, siblings under 21 months free)

To register email Susanne Ortmann at susanne.ortmann@anshome.org . Reservations not confirmed until payment received (checks only). Please mail checks made payable to ANS to Rust Sanctuary, 802 Children’s Center Rd., Leesburg, VA 20175.

Algonkian Regional Park, Sterling, VA
Mondays, September 28-November 16 (10-11am)
No class October 12 and November 2
Cost: \$60 (siblings 21 months and older \$40, siblings under 21 months free)

To register please email Ellen McDougall at emcdougall@anshome.org . Reservations not confirmed until payment received (checks only). Please mail checks made payable to ANS to Rust Sanctuary, 802 Children’s Center Rd., Leesburg, VA 20175. Offered in partnership with NOVA Parks.



Naturalist in the Classroom

Can’t come to Rust on a field trip? **Reduce your carbon footprint** and we will come to you!

ANS programs support key components of project-based learning via real world connections and are designed to meet Virginia Standards of Learning. Programs highlight human impacts, ecological systems, natural resources, investigations, and natural processes through hands-on, STEM focused classroom activities.

Program times and presentations can be adapted for multiple age groups. We can suggest the programs most popular with each age group. Book your program for the 2015-16 school year!

- PreK-5th: Wonderful Worms, Reptiles and Amphibians, Birds of a Feather, Green Cleaners
- 3rd-5th: We All Live Downstream, Skull and Scat, Watts Up, Paper making, Enviroscope, Erosion in a Bottle.

Email Susanne Ortmann susanne.ortmann@anshome.org for more information and to book a school visit.

Unplug and Play Afterschool Programs

Expand your afterschool program to include Unplug and Play! This unique afterschool program takes the fun outside as students discover their natural world through games, hikes, and eco-crafts. Each week has a different theme that may include adaptations, life cycles, plant and animal basics, habitats and erosion. Typical hours for the afterschool program are 2:45-3:45 pm. ANS naturalists are available to teach Monday-Friday, one day per week for six weeks. To run the program, we require a minimum of 8 students at a cost of \$65 per student for the 6-week program. Email Ellen McDougall at emcdougall@anshome.org for more information and to book your school’s afterschool club.

Nature Birthday Parties

Give your child the gift of nature with a party at Rust Nature Sanctuary in Leesburg, VA or the Broadlands Nature Center in Broadlands, VA. Parties are held weekends year-round. Many nature themes to choose from! Cost is \$225 for ANS members and \$260 for nonmembers, which includes a one year membership to ANS. Download a brochure at ANShome.org/birthday.

Contact Ellen McDougall for more information: emcdougall@anshome.org or 703-669-0000.



FRIEND ANS ON FACEBOOK

Adult Programs

These programs offer nature novices and experienced naturalists alike an array of opportunities to explore and learn about our area's natural history. All programs are led by experienced naturalists. Lectures are held at Woodend Sanctuary. Field trips are reached by private vehicle or carpool.

ONLINE REGISTRATION FOR ADULT PROGRAMS

- Visit www.ANShome.org/adultnatureprograms and click on "Register Online."
- All adult program participants will be "New Users" the first time they register.
- All changes/cancellations/transfers must be handled through the EE office.
- Have a credit postcard? Call Pam at 301-652-9188 x 16 to hear options.
- Questions? Call Pam at 301-652-9188 x16 or email pam.oves@anshome.org.

Breeding Bird Walk at Theodore Roosevelt Island

Saturday, June 6 (7-11 am)

Leader: John Bjerke

Members \$24; nonmembers \$34

Breeding birds are excellent environmental indicators, and breeding bird surveys generate important data for monitoring the health of ecosystems. On a loop walk around Theodore Roosevelt Island in the Potomac River near Georgetown, we'll explore bottomland woods and wetlands in search of both common and uncommon breeders of this protected habitat. We'll discuss the breeding strategies of species such as Osprey, Barred Owl, Wood Duck, Northern Parula, and Common Yellowthroat, among others, as well as the types of census techniques which ornithologists and citizen scientists use to determine population levels and trends. We'll walk up to 2.5 miles at a leisurely pace on natural-surface trails and boardwalk.

Natural Heritage Series: Suitland Bog

Thursday, June 11 (7:30-9:30 pm)

Sunday, June 14 (morning field trip)

Leader: Cris Fleming

Members \$44; nonmembers \$58

Lecture only members \$20; nonmembers \$28

Suitland Bog is a tiny "magnolia bog," the best preserved of over 30 bogs that once occurred in the Beltsville-Suitland area. At least 20 state-listed species still occur in the bog, including the delicate rose pogonia orchid and two species of sundew. Thursday's class will include slides of plants and a discussion of bog formation and characteristics of various bog types. Sunday's field trip to the bog, which we'll explore by boardwalk, is limited to 14 people.

Advanced Odonate Studies: Common Damselflies of the Mid-Atlantic

Thursday, June 11 (7:30-9:30 pm)

Sunday, June 14 (full day field trip)

Leader: Richard Orr

Members \$46; nonmembers \$64

Lecture only: members \$20; nonmembers \$28

Feel like you're ready to "graduate" from our annual Introduction to "Dragonfly and Damselfly" class led by dragonfly expert Richard Orr? Join us for this advanced class focusing on field identification of the common damselflies of the Mid-Atlantic region. Orr will combine an evening presentation with a field trip to Patuxent Research Center. This is the third of four classes that will cover field ID of all of the dragonfly and damselfly groups in the mid-Atlantic area. Look for "ID of Mature Larvae and Cast Skins of Stream/River Dragonflies" in 2016. *Just getting started in dragonflies and damselflies? Our leader's introductory class in August is for you.*

Early Summer Wildflowers of Little Bennett Park

Saturday, June 13 (9 am-12:30 pm)

Leader: Sujata Roy

Members \$24; nonmembers \$34

Follow a naturalist, who knows this park well, in a search for the blooms of early summer at Little Bennett Regional Park in upper Montgomery County. We'll walk up to 3 miles on natural surface and gravel trails, with minimum uphill and downhill, as we visit woodland and wetland. Black Cohosh, also affectionately known as Fairy Candles, should be in bloom, as well as Thimbleberry and a Penstemon species or two.

Solstice Morning at Hoyle's Mill Park

Sunday, June 21 (9 am-12:30 pm)

Leader: Carole Bergmann

Members \$24; nonmembers \$34

Hoyle's Mill Conservation Park, in upper Montgomery County, MD, preserves the largest diabase bedrock habitat in the state of Maryland. At more than 800 acres and containing the biggest continuous forest under Montgomery County Park supervision, this Park is a rich reservoir of uncommon plants. As official summer arrives, join Carole Bergmann, Forest Ecologist for MNCPPS, for an exploration of this area and the botanically diverse flora it supports. *We will walk several miles on Park trails, with some infrequent, light bushwacking.*

Summer Shuffles Along the Canal

Wednesdays (9-11:30 am)

Section A: June 24 - Riley's Lock

Section B: July 1 - Widewater

Section C: July 8 - Carderock

Section D: July 22 - Swain's Lock

Leader: Stephanie Mason

Each walk members \$20; nonmembers \$28

Entire series \$72/\$100

Summer's here and it may be hot, so we'll keep our pace to a shuffle as we visit four areas along the Potomac River and the C&O Canal. We'll stop often to observe birds, wildflowers, butterflies, dragonflies, snakes, and whatever else we may find underfoot or overhead. Carpooling will be available from Woodend.

Six-legged Songsters of Summer

Thursday, June 25 (7:30-9:30 pm)

Leader: Cathy Stragar

Free, but registration is required.

Sticky summer has arrived, and the songs of insects such as cicadas, crickets, and katydids begin to swell into a noisy and riotous chorus. Join naturalist Cathy Stragar at our Woodend Sanctuary for a slide introduction to the most common of these songsters: who they are, why they sing, and how they make their amazing sounds. She'll also describe how to get involved with the fourth annual Cricket Crawl citizen science activity in late August.

Love Our Adult Nature Outings?

Celebrate a special occasion by giving a friend or family member a customized ANS nature walk.

For details, contact Senior Naturalist Stephanie Mason at stephanie.mason@anshome.org.

Western Montgomery County Butterfly Count



Saturday, June 27

Join us for the 27th annual Western Montgomery County Butterfly Count. Participants in this citizen science project will be sent into the field in teams to count butterfly species in a given area. No experience is necessary. This mid-summer count, modeled after the Christmas Bird Counts, is organized by ANS and sponsored by the North American Butterfly Association and Xerces Society. Email Stephanie Mason at stephanie.mason@anshome.org for a participant's information letter.

A Year at Boundary Bridge

Saturdays (9 am-2 pm)

Section C: June 27

Section D: November 7

Leader: Melanie Choukas-Bradley

Each walk members \$30; nonmembers \$42

Entire series \$102/\$143

Join the author of *A Year in Rock Creek Park—the Wild, Wooded Heart of Washington, DC* for our 9th year of hikes in one of D.C.'s most beautiful wild areas. Celebrating the park's 125th birthday, we'll start at Boundary Bridge and follow the same 2.5 mile loop trail each season, admiring and IDing the rich plant life along a scenic stretch of Rock Creek. We'll also see and hear many species of birds, butterflies, and amphibians. As summer arrives in the Park, we'll hope for a glimpse of a kingfisher as we look for ferns and early seasonal wildflowers such as enchanter's nightshade. Autumn is glorious in Rock Creek Park, and we'll conclude our series with a walk through colorful oaks, maples, and ashes, searching for the flowers of an early witch hazel in bloom. *Our hike will be on natural surface trails with moderate uphill and downhill walking. An ANS/Rock Creek Conservancy Partnership.*

Butterflies of Governor's Bridge Natural Area

Sunday, June 28 (10 am- 2:30 pm)

Leaders: Dick Smith and Stephanie Mason

Members \$24; nonmembers \$34

Join a butterfly expert and our Senior Naturalist on a search for early summer butterflies at Governor's Bridge Natural Area near Bowie, MD. We'll explore up to a couple of miles in generally open and sunny terrain as we explore the meadow, woodland, and wetland habitats of this park adjacent to the Patuxent River. We'll hope to spot and ID a wide variety of early summer species, all the while discussing their life histories and host plant relationships. The walk is aimed at beginning and intermediate butterfly enthusiasts, but all are welcome.

Summer on Wheels Along the Patuxent

Saturday, July 4 (8 am-12:30 pm)
 Leader: Stephanie Mason
 Members \$24; nonmembers \$34

Dust off your bike and join us to explore the woods and wetlands along the Patuxent River in Prince George's County, MD. We'll use the Chesapeake Bay Critical Area Tour roadway, closed to cars on this day, to visit a variety of habitats in our search for summer activity in the natural world. We'll dismount often to look for wildflowers, birds, butterflies, and frogs, as we cover the Tour's reach from Patuxent River Park to Merkle Wildlife Refuge. Our round-trip ride will be between 5-8 miles. Bring your own bike.

Holiday Hike Along the River

Sunday, July 5 (8 am-12:30 pm)
 Leader: Stephanie Mason
 Members \$24; nonmembers \$34

Join our Senior Naturalist for a general nature walk along the scenic Potomac River as the long holiday weekend winds down. We'll use the Potomac Heritage trail for our 3.8 mile round trip hike from Riverbend Park to Great Falls Park, VA, and back. Along the way, we'll watch for the activity of nesting birds, butterflies and other insects, reptiles and amphibians, while IDing summer wildflowers. The hike will follow an uneven, natural-surface trail which could be muddy and which includes a small amount of rocky terrain.

Geology of Cunningham Falls State Park and Catoctin Furnace

Saturday, July 11 (10 am-3 pm)
 Leader: Joe Marx
 Members \$30; nonmembers \$ 42

Cunningham Falls State Park, north of Frederick, MD, features shaded glens, mountain streams, rocky trails, and a 43-acre lake. The geologic history of the area is long and interesting, involving an ancient coastal plain later destroyed by continental collision. We will spend time visiting and exploring both the Catoctin Iron Furnace, where pig iron was produced, using local ore and fuel, from 1777 to 1903, plus the popular falls for which the Park is named. Expect to hike around 3 miles, over uneven trails with some notably rocky stretches. *The pace set on geology field trips is typically faster than our usual naturalists' shuffle.*



FOLLOW ANS ON TWITTER: ANStweets

The Buzz on Bees and Wasps

Saturday, July 11 (8:30-11 am)
 Leader: Cathy Stragar
 Members \$20; nonmembers \$28

From solitary parasitic wasps to the highly social honey bee, from potter wasps to carpenter bees, these related insects form a fascinating and critically important part of the natural world. We'll take a look at their diversity, life histories, significant ecological roles, and worrisome threats facing bees and wasps. We'll spend our time outdoors, combing the Woodend Sanctuary for wasps and bees, identifying them, and observing their habits.

How Do Their Gardens Grow?

Saturday, July 18 (9 am-12:30 pm)
 Leaders: Liz Jones and Marney Bruce
 Members \$24; nonmembers \$34

Here's your chance to visit the home gardens of two ANSers who have worked to reduce lawn coverage, increase food and shelter for wildlife, and incorporate native plants when possible. Liz and Marney will share their successes and failures on walks through their yards, both of which include water features. One yard is mostly shaded, while the second sports sun-loving plants in the front and shade-loving species in the back. Participants will divide into two groups, visiting one garden for roughly an hour before switching to the other site. Our destination gardens are both in the Bethesda, MD vicinity.

Summer Fungus Walk

Sunday, July 19 (9 am-12:30 pm)
 Leader: Tovi Lehmann
 Members \$24; nonmembers \$34

Summer is a great time to get introduced to the most common families of fungi in our area and find out more about their natural history and many ecological functions. We'll visit Rock Creek Park in the District, where the natural surface trails will include some uphill and downhill walking. Note: the focus of our field trip is fungi's important and under-appreciated role in forest ecology, not the edibility of particular species of mushrooms.

WEEKLY PLANT CLINIC

Master Gardeners have a "help desk" outside Woodend's Naturalist Shop on Saturdays, 10 am-Noon, April through September. Bring your plant/insect specimens and learn more about gardening!

Advanced Butterfly Studies

Thursday, July 23 (7:30-9:30 pm)

Sunday, July 26 (3/4 day field trip)

Leaders: Dick Smith and Stephanie Mason

Members \$46; nonmembers \$64

Lecture only: members \$20; nonmembers \$28



Our workshop is designed to pay special attention to difficult butterfly species, in particular, the skippers and the hairstreaks. We'll also consider satyrs and other less-noticed butterfly species in our evening lecture at Woodend led by regional butterfly expert

Dick Smith. Our field trip to Patuxent Research Center-North Tract will offer opportunities to see some confusing and hard-to-ID species, as well as the more common ones. Our Senior Naturalist will assist with ID of butterfly host and nectar plants.

Walk Among the Giants

C: Saturday, July 25 (7:30-11 am)

D: Sunday, October 25 (8-11:30 am)

Leader: Stephanie Mason

Each walk: members \$24; nonmembers \$34

Walk among the giant Sycamores, Silver Maples, and River Birches on this seasonal series of explorations along the Potomac River just upstream of Great Falls, MD. We'll keep our eyes (and ears) open for all manner of wildlife, and watch the woods turn summer sultry before fall colors herald the coming of another winter. Our floodplain trail, connecting with the Towpath, is mostly level, but could be muddy as we walk our loop of roughly 2.5 miles.

Sunset Stroll in the Hollow

Saturday, July 25 (7-9 pm)

Leader: Stephanie Mason

Members \$20; nonmembers \$28

Enjoy a slow evening stroll through the field, forest, and wetland habitats of the Hughes Hollow area, south of Poolesville, MD. As the sun sets, we'll look and listen for owls, frogs, foxes, beavers, bats, and insects, discussing the adaptations of these crepuscular and nocturnal animals.

Botanical Gems of Montgomery County: Dickerson Conservation Park

Sunday, July 26 (9 am-12:30 pm)

Leader: Carole Bergmann

Members \$24; nonmembers \$34

The County's forest ecologist leads us on a summer exploration of another "botanical gem" in this ongoing series. Come prepared to walk from 1.5-2 miles in lush floodplain forest along the Potomac River in Dickerson Conservation Park. While the focus of the hike will be to learn about the range of native trees, shrubs, and summer wildflowers in this rich habitat, the highlight will be the chance to visit some towering, old trees, including the largest known tree in the state of Maryland, a giant sycamore.

Wilds of South Jersey: **FULL** Little Pines and Big Marshes

Monday, July 27 (8 am) to Tuesday, July 28 (4 pm)

Leader: Mark Garland

Members \$110; nonmembers \$154

Join a seasoned Jersey naturalist on a visit to two very different but wild and unspoiled habitats in southern New Jersey. On Monday, we'll explore the Pine Barrens, where deep quartz-rich sands support hilltop forests of stunted oaks and pitch pines. The next day, we'll visit the vast marshes lining the Delaware Bay in Cumberland County, New Jersey, where we can expect to see a good variety of shorebirds, herons, and other water birds. Lodging suggestions will be sent with the program confirmation. Program fee does not include lodging.

Native Plant Gardening for Homeowners

Summer Walk: Wednesday, July 29 (10 am-Noon)

Fall Walk: Wednesday, October 21 (10 am-Noon)

Leader: Stephanie Mason

Each walk members \$20; nonmembers \$28

Explore the Blair Native Plant Garden, located just outside the Sanctuary Shop, with our Senior Naturalist who helped develop the garden and its educational focus. Find out more about the values of gardening with native plant species, including: lower maintenance; more value to native birds, butterflies and other insects, including pollinators; reduced negative impact on local ecosystems, and more. We'll discuss native alternatives to popular non-native species such as English ivy, as well as resources for broadening one's knowledge and understanding of plants native to the mid-Atlantic. You're welcome to bring along a bag lunch to eat with the leader after the walks, which are scheduled to highlight seasonal aspects of the Garden.

Date	Time	Activity	Fee	Page	Date	Time	Activity	Fee	Page
Jun 6	7 am	Breeding Bird Walk At TR Island	Y	12	Jul 30	6 pm	Butterflies and their Conservation begins	Y	25
"	8 am	Beginner Bird Walk at Woodend		22	Aug 1	9 am	Free Family Program at Woodend		8
"	9 am	Free Family Program at Woodend		8	"	10 am	Master Gardeners Help Desk		22
"	10 am	Master Gardeners Help Desk		22	Aug 6	7:30 pm	Intro to Dragonfly and Damselfly Studies	Y	18
Jun 7	7 am	Fort C.F. Smith Park bird walk		23	Aug 8	10 am	Master Gardeners Help Desk		22
Jun 10	6:30 pm	Macro ID Review & Quiz		22	Aug 15	10 am	Master Gardeners Help Desk		22
Jun 11	7:30 pm	Suitland Bog	Y	12	Aug 21	dusk	Crickets Count!		15
"	"	Advanced Odonate Studies	Y	12	Aug 22	10 am	Master Gardeners Help Desk		22
Jun 13	7:30 am	Little Bennett bird walk		23	Aug 26	7:30 am	Woodbridge/Occoquan Bay bird walk		23
"	8 am	Beginner Bird Walk at Woodend		22	Aug 29	10 am	Master Gardener Help Desk		22
"	9 am	Early Summer Wildflowers	Y	12	Aug 30	7 am	Rock Creek Park bird walk		23
"	10 am	Master Gardeners Help Desk		22	Sept 5	8 am	Beginner Bird Walk at Woodend		22
Jun 17	7 pm	How to Read Your Stream		22	"	9 am	Free Family Program at Woodend		8
Jun 20	8 am	Beginner Bird Walk at Woodend		12	"	10 am	Master Gardeners Help Desk		22
"	10 am	Master Gardeners Help Desk		22	Sep 6	8 am	Late Summer Wings and Wildflowers	Y	18
Jun 21	9 am	Solstice Morning at Hoyle's Mill	Y	13	"	"	Sycamore Landing bird walk		23
Jun 22	6 pm	Wetland Ecosystems begins	Y	24	Sep 11	6:45 pm	Evening on the Canal	Y	18
"	7 pm	Insect Life begins	Y	24	Sep 12	7 am	Fall Birding Series A	Y	18
Jun 23	6 pm	Ferns and Lycophytes begins	Y	24	"	8 am	Beginner Bird Walk at Woodend		22
"	7 pm	Understanding Evolution begins	Y	24	"	10 am	Master Gardeners Help Desk		22
Jun 24	7:30 am	Woodbridge/Occoquan Bay bird walk		23	"	1 pm	Spiders 101	Y	18
"	9 am	Summer Shuffle Along the Canal A	Y	13	Sep 13	1 pm	Geology of Riverbend Park	Y	19
Jun 25	7:30 pm	Six-legged Songsters of Summer		13	"	3/4 day	Fall Flight at Cromwell Valley	Y	19
Jun 27	8 am	Beginner Bird Walk at Woodend		22	Sep 16	10 am	Midweek Meander Along the Canal A	Y	19
"	9 am	A Year at Boundary Bridge C	Y	13	Sep 17	7:30 pm	Bat Chat		19
"	10 am	Master Gardeners Help Desk		22	Sep 19	8 am	Beginner Bird Walk at Woodend		22
"	all day	Western MoCo Butterfly Count		13	"	9 am	Confusing Composites	Y	19

Date	Time	Activity	Fee	Page
Sep 19	9:30 am	Fall Butterflies of the Southern Patuxent	Y	19
"	10 am	Snickers Gap Hawkwatch bird walk		23
"	"	Master Gardeners Help Desk		22
Sep 20	7 am	Fall Birding Series B	Y	18
Sep 23	10 am	Happy Birthday, Rock Creek Park	Y	20
Sep 25	10 am	Fresh Air Kids at Rust begins	Y	11
Sep 26	6:30 am	Patuxent River Park bird walk		23
"	8 am	Beginner Bird Walk at Woodend		22
"	10 am	Master Gardeners Help Desk		22
Sep 28	10 am	Fresh Air Kids at Algonkian Park begins	Y	11
Sep 30	10 am	Midweek Meander Along the Canal B	Y	19

Keep our campers safe!
Please observe the One-Way signs at Woodend this summer.



Y = Fee-based program

- Special Event
- Children and Family Program
- Adult Program
- Natural History Field Studies
- Rust (VA) Activities and Events

Date	Time	Activity	Fee	Page
Jun 28	10 am	Butterflies of Governor's Bridge	Y	13
Jul 1	9 am	Summer Shuffle Along the Canal B	Y	13
Jul 4	8 am	Summer on Wheels Along the Patuxent	Y	14
"	9 am	Free Family Program at Woodend		8
"	10 am	Master Gardeners Help Desk		22
Jul 5	8 am	Holiday Hike Along the River	Y	14
Jul 8	9 am	Summer Shuffle Along the Canal C	Y	13
"	7 pm	Summer Wildflower ID begins	Y	25
Jul 11	8:30 am	The Buzz on Bees and Wasps	Y	14
"	10 am	Geology of Cunningham Falls	Y	14
"	"	Master Gardeners Help Desk		22
Jul 18	9 am	How Do Their Gardens Grow?	Y	14
"	10 am	Master Naturalist Help Desk		22
Jul 19	9 am	Summer Fungus Walk	Y	14
Jul 22	9 am	Summer Shuffle Along the Canal C	Y	13
Jul 23	7:30 pm	Advanced Butterfly Studies	Y	15
Jul 25	7:30 am	Walk Among the Giants C	Y	15
"	8:30 am	Delaware Coastal Areas bird walk		23
"	10 am	Master Gardeners Help Desk		22
"	7 pm	Sunset Stroll in the Hollow	Y	15
Jul 26	7:30 am	Pennyfield in the Summer bird walk		23
"	9 am	Dickerson Conservation Park	Y	15
Jul 27	8 am	Wilds of South Jersey	Y	15
Jul 29	7:30 am	Woodbridge/Occoquan Baybird walk		23
"	10 am	Native Plant Gardening for Homeowners	Y	15
"	7 pm	Summer Bird Life begins	Y	25

Introduction to Dragonfly and Damselfly Studies

Thursday, August 6 (7:30-9:30 pm)

Sunday, August 9 (3/4 day field trip)

Leader: Richard Orr

Members \$46; nonmembers \$64

Lecture only \$20/\$28

Grab your binoculars and prepare to set your sights not on birds — although “mosquito hawk” is a common moniker — but on those six-legged, aerial acrobats of wetland habitats: the dragonflies and damselflies. On Thursday evening, local entomologist and dragonfly expert Richard Orr will use slides and videos to discuss identification, biology, and behavior of the more common species of Odonates in our area. Our field trip to the Patuxent Research Refuge near Bowie, MD, where our leader has conducted dragonfly studies, will give us a chance to test our identification skills.

Crickets Count! Citizen Science Activity

Friday, August 21 (after dark)

Be a part of the third annual DC/Baltimore Cricket Crawl. Participants will learn the songs of eight species of crickets and katydids, then spend a few minutes to listen for their songs and send in their observations. For details on this citizen science project, which ANS is cosponsoring, check out this link: <http://www.discoverlife.org/cricket/DC/>. *Rain date for the Cricket Count is August 22.*



Late Summer Wings and Wildflowers

Sunday, September 6 (8 am-noon)

Leader: Stephanie Mason

Members \$24; nonmembers \$34

A park in upper Montgomery County, the Lois Green Conservation Area, offers open meadows, pond and stream, and forested edges as an ideal spot for broad-based nature exploration. We'll look for butterflies and other insects, migrant and resident birds, and other wildlife against the backdrop of late summer, sun-loving wildflowers and fruiting trees. We'll walk several miles on natural trails with some uphill/downhill and a few short stretches of bushwhacking in tall vegetation, all at a leisurely pace.



This ANS service offers weekly reports of sightings of rare or notable birds. Email voice@ANShome.org or visit ANShome.org/voice.

Evening on the Canal

Friday, September 11 (6:45-8:45 pm)

Leader: Stephanie Mason

Members \$20; nonmembers \$28

Join senior naturalist Stephanie Mason on a walk through the woods and along the Potomac River's C&O Canal beginning at Swain's Lock near Potomac, MD. As day gives way to dusk — and then to nightfall — we'll look and listen for owls, foxes, bats, katydids, moths, and other nocturnal and crepuscular animals, discussing the adaptations of creatures whose “day” begins as ours ends.

Fall Birding Series

A: Saturday, September 12: Governor's Bridge Natural Area, MD (Mark England) (7-10 am)

B: Sunday, September 20: Wheaton Regional Park, MD (Mike Bowen) (7-10 am)

C: Saturday, October 3: Huntley Meadows, VA (Mark England) (7:30-10:30 am)

D: Saturday, October 10: Kenilworth Aquatic Gardens, DC (John Bjerke) (7:30-10:30 am)

E: Sunday, October 18: Sycamore Landing, MD (John Bjerke) (8-11 am)

F: Saturday, October 31: Occoquan Bay NWR, VA (Mike Bowen) (8-11 am)

G: Sunday, November 8: Hughes Hollow, MD (John Bjerke) (8-11 am)

Each walk members \$24; nonmembers \$34

Entire Series: \$134/\$190

Our fall birding series visits seven protected areas, all under an hour's drive from D.C., where a variety of habitats — including field, forest, and wetland — provide good opportunities for the observation and identification of birds in autumn. On the earliest walks, we'll hope to catch some southbound migrants. As the season progresses, we'll watch for sparrows, raptors, waterfowl, and other birds. These teaching walks are aimed at beginning to mid-level birders, but all are welcome. Most of our explorations will be on natural surface trails that may be uneven or muddy. Walk A includes some mild uphill and downhill.

Spiders 101

Saturday, September 12 (1-4:30 pm)

Leader: Cathy Stragar

Members \$24; nonmembers \$34

Spiders are ubiquitous creatures in our basements, meadows, and woodlots. While they inspire feelings of fear among many, they are a source of wonderment and mystery to the nature enthusiast. Join a naturalist for an introduction to the natural history and identification of spiders. On our field trip to McKee-Beshers Wildlife Management Area, near Poolesville, MD, we'll search for spiders in a variety of habitats and discuss their life histories, feeding strategies, and adaptations.

Geology of Riverbend Park

Sunday, September 13 (1-5 pm)

Leader: Joe Marx

Members \$24; nonmembers \$34

Upstream from Great Falls, VA, the less-frequented Riverbend Park offers scenic trails across Piedmont uplands and Potomac River bottomlands. The bedrock is schist of the Mather Gorge Formation, with some metagraywacke. We will hike a four-mile loop over level to rolling terrain, with a few rocky stretches and a good possibility of riverside mud. Trails will be easy to moderate, but with occasional steep slopes due to the 100-foot elevation difference between upland and floodplain. As we tour through the park, we will make numerous stops to discuss geological points of interest. *Note: on our geology field trips, we move farther and faster than our usual naturalist's shuffle.*

Fall Flight at Cromwell Valley Park

Sunday, September 13 (3/4 day field trip)

Leaders: Hal Wierenga and Lynn Davidson

Members \$30; nonmembers \$42

Bring along a folding chair and cross your fingers for a good day of raptor flight at this hawk watch in Baltimore County, just outside the northern side of the Baltimore Beltway. Our trip is scheduled close to peak for the southward passage of Broad-wing Hawks in massive numbers. Of course, we can't control weather conditions or migratory pulses, but our leaders will do their best to give you a productive day of birding. That will include exploring some of Cromwell Valley Park's trails for fall migrant songbirds, and perhaps even heading out to other close-by locations in the afternoon if the hawk flight is slow.

Midweek Meanders Along the Canal

Wednesdays (10 am-12:30 pm)

A: September 16 - Riley's Lock

B: September 30 - Carderock

C: October 14 - Violettes Lock

D: October 28 - Pennyfield Lock

E: November 4 -Widewater

F: November 18 - Swain's Lock

Leader: Stephanie Mason

Each walk members \$20; nonmembers \$28

Entire series \$96/\$134

Enjoy one or all of these leisurely autumn walks along portions of the C&O Canal that enjoy less traffic than the towpath stretches close to Washington. The focus of our walks, each beginning from a different location, will be general natural history of the varied habitats along the Potomac River and the C&O Canal. We'll proceed at a "naturalist's shuffle" pace, stopping often to observe birds, fall wildflowers and foliage, butterflies, snakes, turtles — and whatever else we might find. Participants interested in carpooling will meet at Woodend.

Bat Chat

Thursday, September 17 (7:30-9 pm)

Leader: Fred Seitz

Free, but registration required.

Come and explore the natural history and conservation concerns of the bats of our region with this program at our Woodend Sanctuary in Chevy Chase, MD. We will learn about the habits and habitats of these fascinating mammals through a slide lecture. We'll also head out onto the sanctuary grounds for a short search for bats in the evening sky. Our leader is a Master Naturalist Volunteer with a particular passion for these flying mammals.

Confusing Composites

Saturday, September 19 (9 am-Noon)

Leader: Sujata Roy

Members \$24; nonmembers \$34

Most of our area's late summer and fall-blooming wildflowers belong to the composite (Asteraceae) plant family. With many local species of asters, goldenrods, sunflowers, bonesets and more, it can be intimidating even to begin to consider IDing them. In this introductory field class, our leader will use both meadow and woodland at Little Bennett Park in Montgomery County, MD to explain the differences between the main groups of "confusing composites," while offering tips on how to begin identifying them.



Fall Butterflies of the Southern Patuxent

Saturday, September 19 (9:30 am-4 pm)

Leaders: Dick Smith and Stephanie Mason

Members \$30; nonmembers \$42

While Monarch butterflies are heading south, many southern species are still expanding their range northward. Butterfly expert Dick Smith and our Senior Naturalist will lead this search for butterflies on the move—Sleepy Orange, Buckeye, Cloudless Sulphur, Ocola Skipper—to name a few, as well as late-season resident species. We'll split our day between Jug Bay Natural Area, along the Patuxent River in Prince Georges County, and the Glendenning Preserve section of Jug Bay Wetlands Sanctuary, situated across the river in Anne Arundel County.

Happy Birthday, Rock Creek Park

Wednesday, September 23 (10 am-2 pm)

Leader: Melanie Choukas-Bradley

Members \$26; nonmembers \$36

Come celebrate the Fall Equinox, the 125th Anniversary of Rock Creek Park AND the 80th birthday of Boundary Bridge on this hike along a scenic stretch of Rock Creek. Our leader for this nature exploration is Melanie Choukas-Bradley, author of the award-winning [A Year in Rock Creek Park—the Wild, Wooded Heart of Washington, DC](#). We'll enjoy the Park's rich plant community and watch for maturing fall fruits, late summer and fall wildflowers, and perhaps some early color. We'll keep our ears open for bird life and our eyes open for butterflies and any other wildlife activity. Our 2.5 mile hike will be on natural surface trails with moderate uphill and downhill walking.

Fall Fern Hike at Turkey Run Park

Saturday, October 3 (9 am-2 pm)

Leader: Cris Fleming

Members \$26; nonmembers \$36

At least 25 species of ferns occur along the Potomac River at Turkey Run Park in Virginia, off the GW Parkway. On our field trip, we'll introduce fern terminology and useful techniques to aid in identification of different species. We'll amble along the River where participants will practice using a simple key to identify many of the Park's ferns. Our "open classroom" is on mostly flat terrain along the River shore, but the hike does include a fairly steep downhill and uphill stretch. *There are also two rocky stream crossings—but there will be plenty of hands to help navigate these.*

Natural Heritage Hike: American Chestnut Land Trust

Sunday, October 4 (full-day field trip)

Leaders: Stephanie Mason and Cathy Stragar

Members \$34; nonmembers \$46

A little over an hour's drive from the Capital area, the American Chestnut Land Trust in Calvert County, MD preserves 3,000 acres in the most pristine watershed on the western shore of the Chesapeake Bay. That watershed—Parkers Creek—contains some of the largest unbroken woodlands left in this coastal plain county. We'll hike between 4 to 5 miles of trails as we explore this rich area, keeping our eyes and ears open for wildlife activity and identifying plants along the way. There will be some uphill and downhill on this moderate hike.

On the Move at Cape May

Monday, October 5 (9 am) to

Tuesday, October 6 (4 pm)

Leader: Mark Garland

Members \$100; nonmembers \$140

Cape May, at New Jersey's southern tip, is known around the world as a great concentration point for southbound migrants. Staggering numbers of birds pass through Cape May when the winds come from the northwest after an autumn cold front. A great mix of habitats means there's always lots to see here, even when the winds don't bring the big migratory push. Early October is a great time for migrating falcons, accipiters, warblers, and monarch butterflies. We plan to visit Cape May Point State Park, the Cape May Migratory Bird Refuge, Higbee Beach Wildlife Management Area, and other natural areas around Cape May. Overnight options include a variety of motels, hotels, B&Bs, and campgrounds in or near Cape May.

Fall Flora along the C&O Canal

Fridays (10 am-12:30 pm)

Section A: October 9 - Carderock

Section B: November 6 - Violettes Lock

Leaders: Marney Bruce and Liz Jones

Each walk members \$20; nonmembers \$28; both walks members \$36; nonmembers \$50

On these leisurely walks along the Potomac River's C&O Canal, we'll enjoy the area's rich diversity of plant life during this season of lingering blooms, developing fruits, and changing color. Trees, shrubs, wildflowers, and ferns will be IDed and studied in their different aspects. These walks are aimed at beginning to mid-level plant enthusiasts, but all are welcome.

Introduction to Tree Identification

Friday, October 16 (10 am-3 pm)

Leader: Stephanie Mason

Members \$30; nonmembers \$42

Fall is a great time to learn to identify our local trees and shrubs. With brilliant leaves highlighting the twigs, new buds already formed, and many fruits hanging on, there are lots of distinguishing features that help sort out the various species. This program at our Woodend Sanctuary will begin indoors with a look at some techniques of tree identification, coupled with practice using a simple key. We'll then move outdoors to use our new skills to identify many of the trees growing on the grounds. Both beginners and those who want to brush up on their ID skills are welcome.

Natural History of Galls

Saturday, October 24 (10 am-Noon)

Leader: Cliff Fairweather

Members \$20; nonmembers \$28

Naturalist Edwin Way Teale called galls edible homes and that's not a bad two-word definition for these hijacked bits of plant tissue. Discover the fascinating, often complex, and occasionally bizarre world of galls, gall-makers, and their associates. Through a lecture and field exploration at our Woodend Sanctuary, we'll learn about their natural history and develop our gall search-image.

Geology of Glendening Nature Preserve

Saturday, October 24 (1-4 pm)

Leader: Joe Marx

Members \$ 24; nonmembers \$34

Coastal Plain geology can be frustratingly subtle, but some of its features are revealed by a walk through the Glendening Preserve near Jug Bay Wetlands Sanctuary in Anne Arundel County. Easily observed changes in drainage and plant communities will help us deduce the nature of the underlying sedimentary layers. Within the preserve's upland, a few hundred yards separate semi-arid from well-watered environments, leading to surprising ecological juxtapositions. Fossils exposed during the Ice Age by the Patuxent River attest to the marine origin of the dry ground, while a boardwalk into Galloway Marsh offers views of the ongoing filling of a modern estuary. Our 2-mile walk will be across level, sandy ground, with possible muddy patches. *Note: our pace on this walk will be faster than our usual naturalist's shuffle.*

Fall Tree ID for Birders

Sunday, October 25 (2:30-4 pm)

Leader: Stephanie Mason

Free, but registration required.



With trees ablaze in fall colors and their fruits hanging high, we'll learn the identifying characteristics visible through binoculars of the most common species of trees and shrubs along the C&O Canal towpath upstream of Carderock.

Botanical Gems in Montgomery County: Travilah Barrens

Sunday, November 1 (10 am-2 pm)

Leader: Carole Bergmann

Members \$24; nonmembers \$34

Visit the Travilah Serpentine Barrens in Montgomery County under the guidance of the county's forest ecologist. With dry, shallow soils and high levels of certain minerals, the somewhat-stunted vegetation is dominated by oaks, pines, and grassy glades, which support many rare and uncommon species. Differing from the prairie-like serpentine barrens at Soldier's Delight near Baltimore, the Travilah site is Maryland's largest, best remaining example of an old-age, forested serpentine community. *Limited to 12 participants.*

Late Fall at Cape May

Saturday, November 7 (8 am) - Sunday, November 8 (5 pm)

Leader: Mark Garland

Members \$100; nonmembers \$140

Cape May is one of the premier spots in North America to see concentrations of southbound birds during the fall migration. Late fall typically brings the year's largest concentrations of coastal waterbirds, including scoters, cormorants, and gannets, along with temperate songbird migrants – those species whose migrations stop before reaching the tropics. When the weather conditions are right in late fall, there can be many thousands of sparrows, blackbirds, American Robins, Eastern Bluebirds, Gray Catbirds, kinglets, and others. This is also a time when rare birds show up in Cape May. Owls are migrating too, and we'll have a chance to visit researchers working at night to band owls. There may even be late-season butterflies, wildflowers, and frogs to see as well.

Fall Hike on Sugarloaf Mountain

Wednesday, November 11 (10 am-3 pm)

Leaders: Melanie Choukas-Bradley and Tina

Thieme Brown

Members \$30; Nonmembers \$42

The author and the illustrator of two books on Sugarloaf Mountain team up once again for a seasonal nature hike on our local monadnock. We'll explore the preserve's botany, wildlife, geology, and history while covering 2-2.5 miles. We'll search for late-season wildflowers and the maturing fruits of oaks, hickories, black birch and other woody plants. Fall color should be lingering, and witch hazel just coming into bloom. Our ears will be open for the sounds of wildlife, including Ravens, Eastern Towhees, and active Chipmunks. During lunch, Tina will offer pointers on drawing in the field. *Our hike includes uphill/downhill walking over rocky trails and a fairly steep ¼ mile hike up to the summit—all at a leisurely pace.*

Water Quality Monitoring

Classes are for anyone who would like to become a volunteer stream monitor or who simply has an interest in learning about life in our streams. Classes are free to ANS members. **To register, mail or fax in a form found at www.anshome.org.** If you are an ANS member simply email the classes you want to register for to pam.oves@anshome.org. To learn more about becoming a monitor, contact Cathy Wiss at cathy.wiss@anshome.org or call 301-652-9188 x19.

Macroinvertebrate ID Review & Quiz

Woodend Sanctuary, Chevy Chase, MD
Section D: Wednesday, June 10 (6:30-9 pm)
No fee

Time to separate the beetles from the true flies! Those who wish to be certified to identify macroinvertebrates in the field must demonstrate their ability annually by taking a quiz using preserved specimens. Those who do not take the quiz may still be assigned to a monitoring team to assist with data collection and other field logistics, but only those who have taken and passed the quiz will identify macroinvertebrates for data recording. Registration required.

How to Read Your Stream

Woodend Sanctuary, Chevy Chase, MD
Section B: Wednesday, June 17 (7-9:30 pm)
Fee \$12, waived for members and students earning SSL credit



Learn about stream characteristics and dynamics. Find out how land use affects our streams. We will practice evaluating stream conditions using photographs and the habitat assessment forms that monitors fill out in the field. This class is recommended for anyone who plans to participate in the ANS water quality monitoring program and is a good refresher on habitat assessment for experienced monitors. Registration required.



WEEKLY PLANT CLINIC

Master Gardeners have a "help desk" outside Woodend's Naturalist Shop on Saturdays, 10 am-Noon, April through September. Bring your plant/insect specimens and learn more about gardening!

Crowder-Messersmith Conservation Fund News

The Crowder-Messersmith Conservation Fund is ANS' international outreach program, providing micro-grants for local conservation and education projects in developing countries. All grantees must:

- Protect endangered species & habitats
- Be ecologically sustainable
- Provide public education
- Have lasting significance to local residents

The 2015 grants were awarded to: the Timbaktu Collective in **India** for their conservation education work on behalf of the Indian Wolf; the Green Age NGO in **Armenia** to study and protect the Armenian Whiskered Bat; in **Benin** the Laboratory of Applied Ecology to train students, locals, and rangers in the protection of the African mahogany; and in **Uganda**, Technology Aid International is rallying locals to protect and conserve the African elephant through a comedy film.

Interested in joining the Committee reviewing grant proposals? Please contact Carol Hayes at carol.hayes@anshome.org for information on joining us in this very worthy endeavor.

Join us for a book talk featuring Committee Chair Daphne Gemmill, with an introduction by Don Messersmith, on Thursday, October 29. Look for details in the fall edition of the *Naturalist Quarterly*.

For more information on the Crowder-Messersmith Conservation Fund please see our web page at anshome.org/index.php/conservation/crowder-messersmith.

Free Beginner's Bird Walks Saturdays, 8-9 a.m. at Woodend

Weekly through June, no walks in July or August. Meet at the Audubon Sanctuary Shop parking lot. Bring binoculars or use ours. No registration required.

Free Birding Trips June-September

These free, volunteer-led walks offer birders a chance to explore new areas with other birding enthusiasts. Visit ANSHome.org, then go to Nature Activities & Education/Adults for complete directions, additional trips, and more information. Turn to page 12 for the list of fee-based, instructional classes and field trips for beginning to mid-level birders.

JUNE

Sunday, June 7

Fort C.F. Smith Park, Arlington, VA

One-third day. Nesting songbirds in woods, edge, and meadow habitat. There may be muddy conditions. **Meet time/place:** 7 am in parking lot. **Make reservation** (10-person limit) with leader Karen Fairweather, twofairs@msn.com or 703-841-1299.

Saturday, June 13

Little Bennett Regional Park, Montgomery County, MD

Half day. Nesting songbirds, possibly including Yellow-breasted Chat, Willow Flycatcher, Prairie Warbler, and Kentucky Warbler. **Meet time/place:** 7:30 am at Kingsley Trail parking area (see website for directions). Insect repellent highly advised, as is waterproof footwear. Extra water and sunscreen also recommended. **Make reservation** (12-person limit) with leader Paul DeAnna, 202-544-2680 or ppdeanna47@gmail.com.

Wednesday, June 24

Woodbridge/Occoquan Bay NWR, VA

Half day. Songbirds, waterfowl, eagles, and other raptors. **Meet time/place:** 7:30 am inside the refuge at central parking lot. **Make reservation** (6-adult limit) with leader Jim Waggener, 703-567-3555.

JULY

Saturday, July 25

Delaware Coastal Areas

Full day at Bombay Hook, Little Creek, Logan Tract, and other sites. Joint trip with MBC/MOS. Shorebirds, marshbirds, and some songbirds. Bring pack lunch. **Meet time/place:** 8:30 am at Bombay Hook Visitor Center parking lot. **Make reservation** (15-person limit) with leader John Bjerke, johnbjerke1@mac.com or 240-401-1643. Cyndie Loeper will co-lead.

Sunday, July 26

Pennyfield in the Summer

Half day. Although nesting activity has quieted down by now, there is plenty to see along the canal in late July. In addition to summer residents and possible migrating shorebirds, we'll look for common dragonflies and damselflies and listen for frogs calling and other sounds of summer. **Meet time/place:** 7:30 am at Pennyfield Lock on the C&O Canal. **Make reservation** (10-person limit) with leader Lisa Shannon, lpshannon@gmail.com.

Wednesday, July 29

Woodbridge/Occoquan Bay NWR, VA

See June 24 listing for details.

AUGUST

Wednesday, August 26

Woodbridge/Occoquan Bay NWR, VA

See June 24 listing for details.

Sunday, August 30

Rock Creek Park, Washington, DC

One-third day walk to view residents, early migrants, and fall warblers in DC's famous city park. **Meet time/place:** 7 am in Rock Creek Park at Picnic Area #18, about three-quarters of a mile south of the Nature Center on Ridge Road. **Make reservation** with leader Wallace Kornack, 202-338-7859; if necessary, ask for directions when making reservations.

SEPTEMBER

Sunday, September 6

Sycamore Landing and Hughes Hollow, MD

Half day. Early migrant songbirds; some raptors, waterfowl, and migrating butterflies. **Meet time/place:** 8 am at the Sycamore Landing parking lot by the C&O Canal. Easy walking trail. Leaders: Tony Fatcher, 301-422-3927 or tonyfatcher1@verizon.net; Floyd Murdoch, 301-937-2362. Contact leaders for directions.

Saturday, September 19

Snickers Gap Hawkwatch (between Bluemont & Berryville, VA)

Two-thirds day. Joint trip with MBC/MOS. Peak time for Broad-winged Hawks. **Meet time/place:** 10 am. Meet at commuter parking lot at VA 7 and VA 601. **Make reservation** with leaders Joan Boudreau and Bob Abrams at icepeep@aol.com or 703-734-1238 (home). Bring tripods, scopes, chairs, pack lunch, and rain/wind gear. Call leaders for directions.

Saturday, September 26

Patuxent River Park, Jug Bay Natural Area, Prince George's Co., MD

Half day. Joint trip with MBC/MOS. Driftboat on Patuxent River followed by trail walk. Search for Sora, also migrant and resident songbirds and waterbirds. **Meet time/place:** 6:30 am at park entrance gate. Bring fee of \$6 per person for park program; boat trip can be cool and a bit damp. Leaders: Greg Kearns and John Bjerke. **Make reservation** (15-person limit) with John Bjerke, johnbjerke1@mac.com or 240-401-1643.

Wednesday, September 30

Woodbridge/Occoquan Bay NWR, VA

See June 24 listing for details.



FRIEND ANS ON FACEBOOK

Natural History Field Studies



This popular program, cosponsored by the Audubon Naturalist Society and the Graduate School USA, provides a comprehensive and stimulating view of our region's natural history and conservation issues. Taught at the college freshman level, these courses are open to anyone 18 years of age or older, professionals and amateurs alike. A Certificate of Accomplishment is awarded for completion of a required curriculum of 39 Continuing Education Credits (CEUs).

Classes are offered at several locations around the DC metro area, including the Audubon Naturalist Society's Woodend Sanctuary in Chevy Chase, MD, and nature centers and other locations in Virginia, as well as the Capital Gallery in downtown DC, which is Metro accessible. For a complete list of the classes in the NHFS program, plus instructor bios, visit ANShome.org/NHFS.

Wetland Ecosystems

NATH8211E, 3 CEUS

Class night and time: Mondays, 6-8 pm

Class meetings: June 22-August 24

Field Trip dates: July 18 and 25, and August 1

Location: Woodend Sanctuary, MD

Tuition: \$355

Instructor: Terry McTigue

The National Capital area harbors a rich variety of wetlands, ranging from bogs to tidal marshes. Become familiar with the landscape and ecological processes that form wetlands and how to identify the plants and animals commonly found in wetlands. Gain an understanding of wetland conservation, including wetland restoration, and policy.

Insect Life

NATH7130E, 3 CEUS

Class night and time: Mondays, 7-9 pm

Class meetings: June 22-August 24

Field Trip dates: July 12 and 25, and August 8

Location: Woodend Sanctuary, MD

Tuition: \$355

Instructor: Cathy Stragar

Learn to identify insects and discover their roles in the balance of nature. Study their life histories, the ecologies of important insect forms, the necessity of insects in biotic communities and principal insect families of the Central Atlantic region.



Painted skimmer by Albert Hartley

Ferns and Lycophytes

NATH7148E, 1.5 CEUs

Class night and time: Tuesdays, 6-8 pm

Class meetings: June 23-July 14

Field Trip dates: June 27 and July 11

Location: Capital Gallery, DC (L'Enfant Metro)

Tuition: \$259

Instructor: Carl Taylor

Ferns are ferntastic! This class will reveal the unique structure and fascinating life histories of ferns and lycophytes. Examine their taxonomy, including how names are chosen, and describe, classify, and identify them. Investigate the intriguing evolutionary history of ferns and lycophytes. Learn how easy it is to grow ferns and how to garden with them. Two field trips will focus on the identification and ecology of our native ferns and lycophytes. Students must have a good quality 10X–14X hand lens or they will miss the marvelous detail of these wonderful plants.

Understanding Evolution

NATH8201E, 1.5 CEUs

Class night and time: Tuesdays, 7-9 pm

Class meetings: June 23-July 21

Field Trip date: July 11

Location: Woodend Sanctuary, MD

Tuition: \$259

Instructor: Jane Huff

Explore the theory of evolution, the "grand idea of natural science." Consider the biological bases for evolution, including genetics, natural selection, sexual selection, and survival strategies. Read Darwin's *The Origin of Species*, review the intellectual background of evolution from Aristotle to Wallace, and survey the modern literature of evolution, including Mayr, Dawkins and E.O. Wilson. Topics are presented for the layperson and amateur naturalist, but a background in biology is helpful.

Support ANS – Monthly!

It's easy! Go to ANShome.org/Donate, or contact Loree Trilling at 301-652-9188 x35 or loree.trilling@anshome.org.

Summer Courses June-August

Summer Bird Life

NATH7116E, 1.5 CEUs

Class night and time: Wednesdays, 7-9 pm

Class meetings: July 29-August 19

Field Trip dates: August 8 and 16

Location: Woodend Sanctuary, MD

Tuition: \$259

Instructor: Gemma Radko

Bird activity is especially busy in the summer, with courting, nesting, and fledging happening in the space of a few short months. Learn about local summer birds and their breeding strategies, nests and nestlings, habitat requirements, and much more. We will discuss the recent state-wide atlas, and what we can learn from atlasing activities. Two field trips to local parks will help participants learn to identify local nesters, their nests, and young birds.

Summer Wildflower Identification

NATH7149E, 1.5 CEUs

Class night and time: Wednesdays, 7-9:30 pm

Class meetings: July 8-29

Field Trip dates: July 18 and 25. Optional kayaking trip on August 1

Location: Woodend Sanctuary, MD

Tuition: \$259

Instructor: Melanie Choukas-Bradley

From milkweeds and morning glories to orchids and asters, summer presents a diverse array of wildflowers for study of plant family characteristics and ways to identify different species. Field trips to two scenic locations for summer wildflowers provide an opportunity for practice in the use of identification guides. Previous Spring Flower Identification class or similar course is recommended but not required.

Butterflies and Their Conservation

NATH8275E, 1.5CEUs

Class night and time: Thursdays, 6-8 pm

Class meetings: July 30-August 27

Field Trip dates: August 8, 15, and 22 (the last being the DC count); Sunday rain dates.

Location: Capital Gallery, DC (L'Enfant Metro)

Tuition: \$259

Instructor: Rick Borchelt

Butterfly populations are increasingly impacted by urbanization and other factors. Participants will learn to identify butterflies of the region, study the principles of butterfly conservation, and work on plans for their own conservation projects, based on an expanded understanding of butterfly biology, behavior and habitat requirements. Saturday field trips will include several butterfly conservation projects in a variety of habitats.

Find details on Fall NHFS classes, starting in September, at ANShome.org/NHFS

Estuarine Ecosystems

Mondays, Woodend Sanctuary, MD

Instructor: Terry McTigue

Fall Woody Plant ID

Tuesdays, Capital Gallery, DC (L'Enfant Metro)

Instructor: Elizabeth Rives

Introduction to Ecology

Tuesdays, Woodend Sanctuary, MD

Instructor: Jane Huff

Bird Life

Wednesdays, Woodend Sanctuary, MD

Instructor: Mark England

Eastern Forest Ecosystems

Thursdays, Capital Gallery, DC (L'Enfant Metro stop)

Instructors: Joe Marx and Stephanie Mason

Registration Info for Natural History Field Studies Classes

Experience gained on field trips is essential to these courses, so students should not register for classes when field trips overlap.

Registration may be completed:

- in person at the Grad School Registrar's Office, 8 am-7 pm, Monday-Friday
- online at graduateschool.edu
- by phone at 202-314-3300 or toll-free at 888-744-GRAD
- by FAX: 866-329-4723
- by mail: Registrar's office, Suite 120, 600 Maryland Ave. SW, Washington, DC 20024

BOOKSHOP OPEN!

Our Sanctuary Shop will be open 30 minutes prior to the first night of classes at Woodend. Students can buy books and other items at a 20% discount! We usually carry textbooks for classes, but call 301-652-3606 to confirm.



ANS's Nature Travel program offers our members and friends opportunities to search for wildlife and explore the wonders of nature at places outside the mid-Atlantic region. Group size is typically limited to 15 people, and many trips fill early. Call Carol Hayes at the ANS travel desk at 301-652-9188 x10 or email carol.hayes@anshome.org for complete itineraries and registration information or visit ANSHome.org/travel.

Scotland: Nature of the Highlands and Islands **FULL**

July 7-19, 2015

Leaders: Neal Fitzpatrick, Warwick Lister-Kaye, & Aigas Rangers

The Aigas Field Centre is located in a quiet glen west of Inverness, Scotland. The Lister-Kaye family has run environmental education programs based from the buildings and grounds of an old estate here for almost 40 years. A full week at Aigas is the centerpiece of this new travel program. Stay in cottages tucked into the estate's arboretum, some beneath Giant Sequoia trees planted here 150 years ago, and take meals in the Great Hall of the Manor House. Head out on field trips each day, some to the east coast, some to the west, and some to the moors, glens, and straths in the middle of the Scottish Highlands. Begin the explorations with a three-night stay at Islay, one of the Inner Hebrides islands, a place rich with wildlife of the wild coast, broad bogs, and pastoral farm country. Expect to see a great variety of birds, wildflowers, mammals, butterflies, and more, while learning about conservation, history, and culture of Scotland. Cost for ANS members is \$4900, double occupancy from Glasgow, which includes almost all meals. **This trip is full, but planning is underway for another departure in 2016.**

Yellowstone: Where Wild Things Roam **ALMOST FULL**

July 9-19, 2015

Leaders: Rob Gibbs & Mark England

Yellowstone is truly one of the world's greatest natural areas, America's first National Park and honored by the United Nations as a World Heritage Site. At over 2 million acres, Yellowstone National Park encompasses a vast and diverse wilderness. Enjoy the Park's geysers and other geothermal features while searching for birds, mammals, and other wildlife. With luck we could see wolves, bears, moose, elk, bison, and other big mammals. We are sure to see many birds, butterflies, wildflowers, and more. The itinerary includes visits to neighboring Grand Teton National Park and to the high Beartooth Plateau, part of the Shoshone National Forest. Cost is \$2995, double occupancy from Jackson, WY, for ANS members.

Honduras: Spectacular Pico Bonito Lodge

November 7-14, 2015

Leaders: Paul Pisano and local guides

Pico Bonito Lodge, near the Caribbean Sea in northern Honduras, is the new "hot destination" for birding and nature tours in Central America. The lodge features very nice cabins, exceptional meals, and great service, but more importantly it features excellent trails through pristine forests adjacent to a large National Park. Spend a week at this lodge exploring these trails and venturing out to nearby natural areas, including the mangrove swamps of Cuero y Salada Wildlife Refuge and the Cayos Cochinos Archipelago. Lovely Cotinga, Boat-billed Heron, Keel-billed Motmot, and the endemic Honduran Emerald just begin the list of possible sightings. Members' cost is \$2600, double occupancy from San Pedro Sula.

South Florida: Exploring the Dynamic Everglades

January 16-24, 2016

Leaders: Mark Garland, Tom Gire, & Judy Gire

Escape winter and enjoy the biological richness of southern Florida. Our trip visits a variety of natural areas in Everglades National Park, along with the Gumbo Limbo Nature Center and the Wakodahatchee Wetlands near West Palm Beach. We are sure to see a lot of birds and other wildlife, but we also take a holistic approach, looking at the complex interwoven character of the many habitats of the Everglades ecosystem. Learn about the major conservation efforts that have recently been implemented to hopefully restore and protect this national treasure. The trip wraps up in southwestern Florida, where we visit Corkscrew Swamp, Rookery Bay, Tigertail Beach, and Everglades City. Cost is \$2550, double occupancy from West Palm Beach.

Pack Your Travel Protection!

Call 301-652-9188 x10 or purchase a plan online with our partner: travelexinsurance.com and use the ANS code **20-6029**.

Costa Rica: Celebrating Tropical Biodiversity

January 30-February 13, 2016

Leaders: Stephanie Mason and Carlos "Charlie" Gómez

Costa Rica has long been considered one of the world's top ecotourism destinations. On our 28 years of trips there, we always visit several different habitats in our search for birds, plants, and all manner of wildlife. Lessons on tropical ecology and conservation engage us every day. Our 2016 trip explores Caribbean lowland rain forest, cool mountain highlands, southern Pacific foothills and coastline, and other tropical wild lands. Thrill to sightings of toucans, trogons, tanagers, monkeys, and more. Cost for ANS members is \$3800, double occupancy from San Jose, and includes all but two meals.

Botswana: Africa's Wilderness Wetland

April 3-13, 2016

Leaders: Mark Garland & Graham Johansson

Botswana is a stable, peaceful nation in southern Africa with great appeal to wildlife enthusiasts. Savannas are home to zebras, giraffes, elephants, lions, cheetahs, gazelles, and others – the classic guild of African wildlife – but Botswana has something special: the Okavango Delta. Here the African savannah meets the continent's largest freshwater wetland, creating truly one of the world's most spectacular wildlife viewing destinations. Our itinerary visits two different small lodges in the delta for maximum immersion into this spectacular ecosystem, along with a visit to the associated Lanyanti wetlands to the north. We also offer an optional pre-trip extension to the Kalahari desert, and an optional post-trip extension to Victoria Falls, Zambia. Cost of the trip is \$8395, double occupancy from Johannesburg.

Southeastern Arizona: Crossroads of Western Ecosystems

August 19-28, 2016

Leaders: Mark England & Sheri Williamson

Southeastern Arizona is one of our country's most biologically rich regions. At lower elevations the Sonoran Desert and the Chihuahuan Deserts meet, and the highlands mix some species of the Rocky Mountains with others of the Sierra Madre. There are many birds found in this region that aren't regularly seen in any other part of the US, and there are also distinctive plants, reptiles, butterflies, and more. Search for birds and learn about this region's ecological diversity with popular ANS leader Mark England and Sheri Williamson, Director of the Southeastern Arizona Bird Observatory. Planning is underway; contact us and we'll send the final itinerary and other details as soon as the planning is complete.

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How To Use Binoculars

By Cathy Grubman & Kelli Holsendolph

Binocular expert Mike Cohen, a district representative for Minox USA, recently held a free Binocular Basics demonstration at Audubon Naturalist Society.

Mike's How To Tips

- To get a comfortable fit and proper eye placement, hold the binoculars up to the eye and adjust them to fit the distance between your pupils.
- Note: You want to see one circle, not two. If you are seeing two circles, the two barrels of the binoculars are either too close together or they may be damaged.
- Wearing glasses? Keep them on and fold the binoculars' rubber eyecups down.
- Focus on the farthest point away using the Central Focus, located at the binocular's hinge post.
- Cover the right lens and focus the binoculars.
- Cover the left lens and focus the binoculars.
- Note: The right lens typically has its own adjustable eyepiece focus. (There's a simple scale on the underside of the eyepiece with +, 0, and -).
- Keep both eyes open when you're focusing.

Mike's Picks for Birders

There are two types of binocular prisms: Porro and roof. The Porro prism has a "classic" binocular design; the roof prism binocular is shaped like an H and has a "straight-barrel" light path. Cohen recommends the roof prism for birders.

Binoculars are commonly described by using a pair of numbers, as in "8x42." The first of these numbers refers to the magnification offered by the binocular. As far as power, 8 is the most popular according to Cohen. "It's better when birding to have the lower number. It's needed for scanning and gives you a wider field of view."

The second number refers to the diameter of the objective lens in millimeters. Thus in "8x42," the "42" means the front lenses of the binoculars are 42mm in diameter. The higher this number, the more light can enter the binoculars—good when light is dim such as at dusk. 42mm seems to be a popular size for birdwatchers.

Also, according to Cohen, "the glass needs to be color-corrected and the coating makes a big difference." Coatings help reduce glare and improve contrast. Waterproofing is a must-have as well.

Lastly, a good binocular can be a little weighty, which helps with stability. But if the binocular is used by somebody who travels a lot, "lighter is better." Binocular straps help keep hands free; and some birdwatchers recommend a short strap, which makes it easier to get binoculars in place quickly.

"Getting the right pair of binoculars will add to your [birdwatching] enjoyment." - Mike Cohen, Minox USA

Need a Pair?

The Audubon Naturalist Shop sells 10 binocular styles, ranging in price from \$100 to \$3,000 for a top-of-the-line pair. Customers can test out the binoculars at the shop at any time, or call ahead to make an appointment and we'll be happy to help. The Audubon Naturalist Shop is open Monday through Friday from 10:00 am to 5:00 pm; Saturday from 9:00 am to 5:00 pm; and Sunday from 12:00 noon to 5:00 pm. Questions? Call: 301-652-3606.



Mike Cohen explains the features of Minox binoculars at the Audubon Naturalist Society. Photo by Cathy Grubman.



Master Naturalist Training at Woodend Sanctuary!

This fall, ANS will partner with the University of Maryland Extension to offer our fifth Maryland Master Naturalist training course. ANS will bring top-notch instructors to the program, which will provide:

- 52 hours of training in the ecology, flora, and fauna of MD
- 8 hours of hands-on field work
- Focus on the natural history of Maryland's Piedmont region

Master Naturalist training graduates will commit 40 hours to naturalist-related volunteer service annually with ANS. Application-based admission limited to 18 participants.

DATES Tuesdays & Thursdays, September 22–November 5, 2015, 9:30 am – 2:30 pm

If you'd like to learn more about the natural world and become a trained nature volunteer, please contact alison.pearce@anshome.org or 301-652-9188 x30. To apply online, visit anshome.org/masternaturalist.

Ready... Set... Volunteer!

By Cathy Grubman

What makes a great volunteer? Somebody who cares about others? Who's passionate about the environment or the community in which they live? Somebody who wants to get some work experience or learn a new skill? All of the above!

Great volunteers are both altruistic and self-serving, community-minded and intellectually curious, change-agents and fun-seekers. Whatever the motivation, it's a win-win for volunteers and Audubon Naturalist Society.

"When people volunteer here, they're looking for a community that values the same things they do," said ANS Volunteer Coordinator Alison Pearce. "But our volunteer opportunities are also learning opportunities. The same people taking our field studies classes are also volunteering—they love to learn."

The jobs are divided into four categories: Advocacy and Communication; Education; Nature Sanctuary Stewardship; and Water Quality Monitoring. Within Advocacy and Communication, jobs include helping with monthly mailings, working in the gift shop, or giving tours of Woodend. Education volunteers assist with GreenKids, preschool or school programs, as well as lead bird walks. Nature Sanctuary Stewardship volunteers maintain the bird feeders, monitor nest boxes, control invasives, and perform trail maintenance.

From the nesting box monitors...



On April 29, Lissie went by and reports that we've now got Carolina Chickadee eggs in boxes 1, 7, and 16. The adult was sitting on eggs in Box 1. Then on May 2, Susan did a tour of the nest boxes. Pretty much the same as Lissie's report, except that the adult flew out of Box 1, allowing a count of 6 eggs! This is so cool - thank you all again for doing this so faithfully.

—Lisa Shannon, ANS Volunteer, Woodend Nest Boxes Report

Photo: Carolina Chickadees in nest boxes at Woodend Nature Sanctuary. Courtesy of Janet Bogue.

Then there's Water Quality Monitoring, which oversees more than 25 sites. Teams of volunteers visit the sites to conduct a habitat assessment and to collect and identify benthic macroinvertebrates. These small organisms, which exhibit a wide range of sensitivity to pollutants and other impacts on the stream, help determine the stream's health.

"Water quality monitoring is certainly our most popular job," said Pearce. "Teams vary from a handful of people to 20; they visit sites four times a year."

Silver Spring resident Paula Wang has been volunteering in water quality monitoring for about 20 years. A retired schoolteacher who taught environmental science, Wang started by "adopting" a stream with her students. These days—armed with nets, field microscopes, dishpans, tweezers and thermometers—she and her five team members work in a tributary of the Northwest Branch by Springbrook High School.

"We're all retired and go in the morning in the middle of the week," Wang said. "It's not a huge commitment—two to four hours."

Another long-time water quality monitor is Charlie Dorian, but that's not all he does. The Wheaton resident assists his wife Gretchen in teaching the caddisfly identification course, and he takes macro photos of benthic invertebrates, which are used in the classes.

Dorian likes the fact that ANS offers volunteering opportunities that range from infrequently low-key to deeply active. He finds the people he meets to be interesting as well.

"I'm surrounded by people who care, and who have expertise ranging from neophyte to university professor, so I don't ever feel out of place," said Dorian.

Pearce is also impressed at the depth of knowledge of the adult volunteers. From teachers and chemists to ornithologists and retired budget analysts, she says the volunteers reflect the ANS membership.

"We are very lucky," Pearce noted.

Physical evidence of the volunteer work is everywhere at Woodend. Dedicated Eagle Scouts constructed trails, bridges and picnic tables. The Blair Native Plant Garden was built with the help of volunteers, who maintain it. The restored meadow was planted by more than 200 volunteers over three days and is currently scientifically monitored to see how it's progressing.

So how can you get involved?

"People apply to be a volunteer and then I interview them," Pearce said. "We talk about the different volunteer opportunities and I place them based on interest and availability."

She adds that some people commit to a couple of hours a week at the same time; others, once a month for an afternoon. To learn more about volunteering at ANS, contact Alison at alison.pearce@anshome.org or 301-652-9188 x30. Also visit anshome.org/volunteer.

Q&A with Leslie Catherwood: Vice President, ANS Board of Directors

When did you join the ANS Board?

I joined the ANS Board of Directors in October 2011.

Why ANS?

I decided to volunteer with ANS because I firmly and enthusiastically believe in our mission to inspire residents of the greater Washington, DC region to appreciate, understand, and protect their natural environment through outdoor experiences, education, and advocacy. Each and every day ANS performs incredible work to conserve our region's precious natural resources. I am truly honored to be a part of this organization and to serve on the board.

What is your favorite natural area/nature site in the region?

My favorite natural area in the region is Mason Neck National Wildlife Refuge in Fairfax County, Virginia. While this federal public land is stunning and only a short distance from my home, it is also a jewel in the U.S. Fish & Wildlife Service's National Wildlife Refuge System. I've enjoyed hiking through the refuge with my dog, partaking in bird watching, nature photography, and simply taking a deep breath of fresh air to unwind from a hectic urban life.

What's your hope for the future of ANS?

My hope for the future of ANS is not only that it remains a pillar in the environmental community for environmental advocacy, education, and outdoor experiences, but also that it grows and expands in ways we can't even dream of today. I would love for ANS to receive the recognition it deserves: to become a household name within the region. All of us can do our part by spreading the good word about ANS, our mission, and our programs. We have much to celebrate! Let's let our neighbors know about this wonderful organization and ask them to get engaged.

Why is nature important?

There are countless ways in which nature is important. But to name just a few, nature is important for people. It provides a haven from the pressures of a fast-paced society: it is a relief from urban noise, the rush of city life, and from crowds. It also provides a bounty of outdoor recreation opportunities for people of all abilities and walks of life.

But nature and protected areas are also critically important to wildlife. These areas serve as vital habitat, migration routes, breeding grounds, and entire ecosystems in which fish and wildlife can live and thrive.

There is also an economic benefit to nature. Protected areas contribute to the local economy through ecotourism and recreation. Nature contributes to native traditions and local livelihoods as well.

Nature and protected areas provide ecosystem services by cleaning our air and water. They can also serve as a natural laboratory, wherein we can learn about the natural world and study the impacts of human-related activities.

And last but surely not least, protecting our nation's special places is an American legacy. The United States was the first nation to create a national park system and to permanently protect untrammeled wilderness areas; these are concepts that we have exported to countries all across the globe. Our nation has a proud legacy of conservation that ANS has continued to uphold for 118 years.



Leslie recently volunteered at a wildlife sanctuary in South Africa, where she worked with African penguins..

Interested in serving on the Board of Directors?

ANS is looking for potential Board Members. If you're interested or know someone who might be, contact Lisa Alexander, ANS Executive Director, at lisa.alexander@anshome.org.



FRIEND ANS ON FACEBOOK

Do you want to read your *Naturalist Quarterly* online and reduce paper use and printing costs? If so, email membership@anshome.org, and ask to be taken off our mailing list.

Do you participate in the National Capital Area CFC?

The easiest way to support ANS is to designate the **Audubon Nationalist Society 75493** in the 2015 Combined Federal Campaign under EarthShare Mid-Atlantic.



Rent Woodend Sanctuary
rebecca.robinson@anshome.org
anshome.org/rentals

Courtesy of Janice Browne

REGISTRATION INFORMATION

Education programs are held at Woodend, the Audubon Naturalist Society's 40-acre Headquarters, 8940 Jones Mill Road, Chevy Chase, MD 20815, unless otherwise noted. To register for any School's Out Nature Camp or Water Quality Program, fill out the registration form found on our website and mail or fax it in. You may also register in person in the EE office Monday-Friday, 9 a.m.-4 p.m. You will be notified immediately if the program is full; otherwise, confirmation letters will be mailed or emailed 1-2 weeks before the scheduled program. See the yellow box below for programs that have online registration.

Lectures are held at our Woodend Sanctuary, and field trip transportation is by private vehicle or carpool unless otherwise noted. Most programs are limited to 16 participants and also have a minimum enrollment, so early registration is important to ensure that programs run. Unless otherwise noted, weekend adult foray program fees do not include meals or lodging.

Because our programs rely on registration fees for funding, we have adopted this policy:

- Cancellations must be made at least six working days before the beginning of the program to be eligible for a credit to your account, less a \$5 administrative fee.
- If an adult foray is cancelled by ANS due to low enrollment, you will receive a full refund. If a weather-related concern or another issue outside of ANS's control forces a cancellation, you will receive a full credit to your account.
- Nature travel programs have different cancellation policies, explained on the information sheet sent on request.


ANS is committed to addressing problems when they occur. Program participants are encouraged to bring problems or concerns of any kind directly to the staff member in charge of the program. Staff members will try to resolve the problem immediately or as soon as reasonably possible. If staff is unable to do so, they are expected to bring the problem to the attention of their immediate supervisor or member of the Senior Management Team, who will take responsibility for seeking a resolution. Program participants are welcome to bring unresolved problems or concerns to the attention of the Executive Director. The Executive Director's decision on resolution of the problem is final.

Looking for the Registration Form?

Find the ANS Environmental Education Program Registration Form online under "Quick Links" at anshome.org.

Just a reminder, you can now register online for Adult Forays, School Programs, Audubon Nature Preschool, Birthday Parties and Summer Camps!

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HELP WANTED!

ANS is searching for a **Nature Preserve Property Manager**. Roughly half the time will be spent outdoors managing tree and plant restoration on the grounds while the other half will be spent overseeing interior and exterior maintenance of Woodend Mansion.

The ideal candidate will be a team player with a willingness to learn and have excellent communication skills for interacting with the public, vendors, volunteers and staff. The candidate should also be handy in making small repairs and will work to keep our public face crisp, clean and welcoming. The Property Manager will create supporting operational and capital budgets and supervise the assistant property manager and outside contractors. Must be willing to work some early mornings, evenings, and weekends.

For a complete description of responsibilities visit our website at www.ANSHome.org. Interested candidates should send a cover letter and resume to contact@anshome.org by June 30, 2015.

AUDUBON NATURALIST SOCIETY

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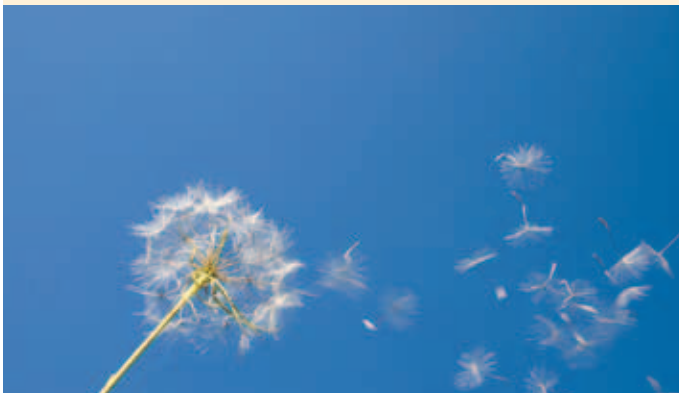
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