

Wednesday

| Session No. | Session Name | Category | Start Time | End Time | Description | Transportation | Meeting Location (Codes, e.g., AG, correspond to locations on our website map, which contains GPS coordinates to enter into navigation tools, like phones.) |
|-------------|---|----------------------|------------|----------|---|----------------|---|
| 1 | A West Hills High School Botanical Event | Wednesday All Day | 10:00 AM | 3:00 PM | A special event for Knoxville's West Hills High School. Introduction to plants, lichens, fungi, and their conservation in our region. | None provided. | J - Cosby Picnic Area, off TN Route 32-- Hiker Parking lot on left |
| 2 | Birding on Cades Cove Loop Road | Wednesday All Day | 7:00 AM | 2:00 PM | Walk with Kevin Burke and Mary Feely to look for and listen to the signs of spring in Cades Cove. Stops will include Sparks and Hyatt Lanes, Burchfield Woods (red-headed Woodpecker) and sewage ponds. Short, easy walk. Bring binoculars and rain gear. DT: 60 min. | None provided. | E - Cades Cove at Information Kiosk Before Loop Road Entrance |
| 3 | Wildflower and Wildfire Walk at the Chimney Tops | Wednesday All Day | 8:00 AM | 1:00 PM | The November 2016 Chimney Tops 2 Fire originated on the north peak of Chimney Tops, spreading northward into the Sugarlands Valley over the next several days. Follow the trail as it ascends through an unburned northern hardwood forest with a splendid display of spring wildflowers, ending at an observation platform 1/4-mile from the peaks. Elevation gain 1,400 ft. Strenuous, 3.5 mile walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |

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| 4 | Wildflower Hike at Gabe's Mountain Trail to Hen Wallow Falls | Wednesday All Day | 9:00 AM | 4:30 PM | An 8-mile, moderate, one-way hike passing through many wildflower displays and old-growth forests from Maddron Bald Trail to Cosby Picnic Area with a visit to 90' Hen Wallow Falls. Elevation change: 1,400'. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 60 min | Van shuttle provided. | J - Cosby Picnic Area--Off TN Rt. 32 hiker parking lot on left to begin van shuttle to Maddron Bald Trail--Van |
| 5 | Aquatic Insect Diversity Walk at Twin Creeks | Wednesday AM | 9:30 AM | 11:45 AM | Enjoy short walks on different order streams with Park entomologist Becky Nichols. Learn to collect and identify a variety of insects in pristine streams. Short, easy walk. DT: 10 min. | None provided. | AG - Twin Creeks Gravel Parking Lot off of Cherokee Orchard Road |
| 6 | Birding from Sugarlands to Newfound Gap | Wednesday AM | 7:30 AM | 11:30 AM | Join naturalist and birder, Jay Sterner, to search for spring migrants and Appalachian specialties starting at Sugarlands and ending at Newfound Gap. Bring binoculars and rain gear. Short, easy walks. | None provided. Carpool needed. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |
| 7 | Birding from Sugarlands to the Cove Hardwood Nature Trail | Wednesday AM | 7:30 AM | 11:30 AM | Tom Howe, former president of the Knoxville TN Ornithological Society, leads a search for spring migrants and Appalachian specialties at Sugarlands Visitor Center. And look for the black-throated blue warbler at Cove Hardwood Nature Trail. Bring binoculars and rain gear. Short, easy walks. http://www.knoxvillebirding.org | None provided. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |

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| 8 | Birding on School House Gap Trail | Wednesday AM | 7:30 AM | 11:30 AM | Scan the trees along a stream for warblers, vireos, the scarlet tanager and American goldfinch, among other species, with Liz Domingue, naturalist guide, birder, wildlife biologist and photographer. Bring binoculars, water, rain gear, and comfortable walking shoes. Easy walk. DT: 45 min. www.justgetoutdoors.com | None provided. Carpool needed. | AD- Townsend "Y" on Little River Road to Begin Carpool |
| 9 | Edible Mushroom Walk at Chimneys Picnic Area | Wednesday AM | 8:30 AM | 11:45 AM | Learn the do's and don'ts about recognizing edible mushrooms and their habitat preferences with field and culinary mycologist, Rachel Swenie and University of Tennessee at Chattanooga graduate student Caleb Powell. Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |
| 10 | Escuela Verde Charter School Studies Wildflowers for Beginners | Wednesday AM | 8:30 AM | 11:30 AM | Learn some basic parts of flowers and leaves and how to use them for identifying wildflowers and trees. Bring pencil, paper, and hand lens (not required). Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |
| 11 | Fern Walk at Little River above Elkmont | Wednesday AM | 8:30 AM | 11:30 AM | Have you ever seen an adder's tongue or sang pointer? Come see a variety of the Park's more common ferns and fern allies. Bring a hand lens. A 2-mile, easy walk. DT: 30 min. | None provided. | S - Little River Trailhead past Elkmont Campground |
| 12 | Native People's Use of Nature's Garden at Twin Creeks Pavilion | Wednesday AM | 8:15 AM | 11:30 AM | Gather at the cook fire with Native American Karen LaMere (Ho-Chunk), and listen to an oral history that has been passed down through the generations by America's indigenous people. Taste and discover ingenious uses of native plants. Short, easy walk. DT: 10 min. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |

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| 13 | Photography of Birds at Cades Cove | Wednesday AM | 7:00 AM | 11:30 AM | Smoky Mountain Bird Photographer, Barry Spruce, will instruct the group in finding bird subjects in their natural habitat, teach participants how to have success in approaching these birds, and how use their surroundings for more pleasing compositions. After the field walk, we move to the Spruce Gallery in Townsend for technical guidance on enhancing compositions. Bring your digital camera and binoculars (please, no cell phone or iPad cameras.). DT: 60 min. http://barrysprucephotography.com/ https://www.facebook.com/Barry-Spruce-Photography-177079628992433/ | None provided. | Cades Cove Gallery, 7843 E. Lamar Alexander Pkwy |
| 14 | Photography Workshop | Wednesday AM | 8:15 AM | 11:30 AM | See a short visual presentation, then travel outdoors for hands-on instruction in composition and techniques by authors Jack Carman (Wildflowers of Tennessee) and Robert Hutson (Great Smoky Mountain Wildflowers: When and Where to Find Them). Bring a camera and tripod. A 2 mile, easy walk. DT: 15 min. | None provided. | AB - Sugarlands Visitor Center Training Room - park in 3rd lot on right |
| 15 | Tour the GSMNP Natural History Museum at Twin Creeks | Wednesday AM | 9:30 AM | 11:00 AM | Come tour the natural history collections that have been used to document the biodiversity of the GSMNP since its beginnings. In this "behind locked doors" tour of the GSMNP Natural History Museum, you will see specimens of mammals, birds, fungi, insects, and plants, and learn about their importance to the Park! | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |

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| 16 | Trees and Wildflowers of Metcalf Bottoms | Wednesday AM | 8:30 AM | 11:45 AM | Learn trees, shrubs, and associated wildflowers. A 2-mile, easy walk. DT: 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 17 | Wildflower Hike at Chestnut Top Trail | Wednesday AM | 8:45 AM | 11:45 AM | One of the grandest wildflower displays in the Smokies. A 2-mile, moderate walk. DT: 45 min. | None provided. | AD - Townsend "Y" on Little River Road |
| 18 | Wildflower Hike at Cove Hardwood Nature Trail | Wednesday AM | 8:30 AM | 11:30 AM | Observe abundant wildflowers, including dwarf ginseng and fringed phacelia, in this old-growth forest. Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |
| 19 | Wildflower Hike at Cucumber Gap Trail - Short version | Wednesday AM | 8:30 AM | 11:30 AM | Walk through a secondary cove hardwood forest and enjoy the rich diversity of wildflowers. This trip ascends toward Cucumber Gap, then returns. A 2-mile, moderate walk. DT: 30 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |
| 20 | Wildflower Hike at Huskey Gap Trail | Wednesday AM | 8:00 AM | 11:45 AM | Walk the old trail that connected the settlers of Sugarlands Valley and Little River as you view the wildflower displays and homesites along the way. Elevation change: 1,000'. A 2-mile, moderate walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 20.5 | Wildflower Hike at Ramsey Cascades Trail - Short version | Wednesday AM | 8:30 AM | 11:30 AM | A 4 to 6-mile round trip (not going all the way to the falls) will allow you to hike among the rich forests of the Ramsey Cascades Trail. You will try to make it at least 1.5-miles in to the large tulip poplars that stand like columns all around the trail. On this trip you'll see giant trees of old growth forests and the rich diversity of wildflowers that inhabit soil held on to these steep slopes by large exposed root networks. DT: 30 min. | None provided. Carpool needed. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |

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| 21 | Wildflower Hike at Porters Creek Trail - Short version | Wednesday AM | 8:30 AM | 11:45 AM | See abundant wildflowers including painted trillium and many more. Pass old homesteads and a cemetery along this popular trail which leads to an old-growth cove hardwood forest. A 2-3 mile easy walk. DT: 30 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |
| 21.5 | Wildflower Hike at Spruce-fir Nature Trail | Wednesday AM | 8:30 AM | 11:45 AM | Enjoy an abundant display of wildflowers along the Spruce-fir Nature Trail! An easy 1 mile walk. DT: 30 min. | None provided. Carpool needed. | AA - Rockefeller Memorial at Newfound Gap to begin carpool to Spruce-Fir Nature Trail |
| 22 | Wildflower Hike on the Quiet Walkway | Wednesday AM | 8:00 AM | 11:45 AM | This easy walk from Newfound Gap Road to the river has a rich diversity of wildflowers, and some species of woody plants not easily observable in other portions of the Park. Dutchman's pipe vine and pawpaw are also often seen in flower along the path. A 2-mile, easy walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 23 | Yoga Class at Walker Sisters Cabin | Wednesday AM | 8:45 AM | 11:45 AM | Join Yoga instructor Kelly Daniels on a 2-mile journey to the Walker Sisters Cabin on the Metcalf Bottoms Trail to exercise and relax in this serene environment before hiking 2-miles back. Bring an exercise mat or large towel and water. A 4-mile moderate hike. DT: 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 24 | Black Bear and Wild Hogs in the Smokies | Wednesday PM | 1:30 PM | 4:30 PM | Walk with David Whitehead, retired Tennessee Wildlife Resources Agency Manager, as he describes the life history, tracking signs, human impacts, and environmental issues of black bears and wild hogs in the Southern Appalachians and GSMNP. A 2 to 3-mile, easy walk. DT: 30 min. | None provided. | S - Little River Trailhead past Elkmont Campground |

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| 25 | Butterflies in Cades Cove | Wednesday PM | 1:00 PM | 4:00 PM | National Park Service Volunteer Warren Bielenberg and Outdoor Educator Wanda DeWaard have been chasing butterflies in Cades Cove for over 20 years. Join them to explore a variety of habitats to identify butterflies on the wing in Cades Cove. Bring a butterfly field guide, binoculars, water, dress for the weather. Short easy walks. DT: 60 min. | None provided. | D - Cades Cove Campground Store Parking Lot |
| 26 | Citizen Science Training for Beginners - you can make a difference! | Wednesday PM | 1:15 PM | 4:45 PM | Tennessee and North Carolina are home to approximately 1.5 million plant specimens. To make a permanent record of a plant species' location, a specimen is collected, pressed, mounted on a paper sheet, and stored in a herbarium. To make each plant's information available globally, a local and international digitizing effort is underway. This program introduces you to this National Science Foundation-sponsored effort to digitize these specimens to make available online. Come and learn about these specimens and how to properly handle them, become trained on their digitization (anyone can do it!), and contribute to this massive effort. DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |
| 27 | Escuela Verde Charter School Searches for Salamanders | Wednesday PM | 1:45 PM | 4:30 PM | Discover some of the 31 species of woodland and aquatic salamanders which reside in the Park. Prepare to get wet, maybe a little muddy, and bring a hand lens. Elevation change: 300' ascent. A 2-mile, easy walk. DT: 60 min. | None provided. | J - Cosby Picnic Area off TN Route 32-- Hiker parking lot on left |

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| 28 | Going Natural in the Garden at Walker Sisters Cabin | Wednesday PM | 1:30 PM | 4:30 PM | Explore the principles of Mother Nature's aesthetic design in wild landscapes, and discover ways to incorporate her natural beauty into your garden. Led by Nancy Rennie, a retired landscape designer and horticultural consultant and Margie Hunter, author of Gardening with Native Plants of Tennessee. A 2-mile easy walk. DT: 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 29 | Millipedes, centipedes, and friends of Ramsey Cascade Trail | Wednesday PM | 1:15 PM | 4:30 PM | Join Derek Hennen, Entomology PhD student at Virginia Tech, on a hike through the undergrowth in search of anything with lots of legs. You'll see astounding millipedes, beautiful insects, and anything else that likes to hide under leaves and logs. The biodiversity of the leaf litter is an unknown frontier sure to surprise and astound you. This one will be fun for all ages. A 2 to 5-mile round trip (not going all the way to the falls) will allow you to hike among the rich forests and deep leaf litter of the Ramsey Cascades Trail. DT: 30 min. | None provided. Carpool needed. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |
| 30 | Moss Walk Along Injun Creek Trail in Greenbrier | Wednesday PM | 1:30 PM | 4:30 PM | Discover the elegant forms of moss, liverwort, and hornworts and ways to recognize them. Bring a hand lens. A 3-mile, easy walk. DT: 30 min. | None provided. | M - Greenbrier Ranger Station |
| 31 | Native People's Use of Nature's Garden at Twin Creeks Pavilion | Wednesday PM | 1:15 PM | 4:30 PM | Gather at the cook fire with Native American Karen LaMere (Ho-Chunk) and listen to an oral history that has been passed down through the generations by America's indigenous people. Taste and discover ingenious uses of native plants. Short, easy walk. DT: 10 min. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |

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| 32 | Nature Journaling at Metcalf Bottoms Picnic Area | Wednesday PM | 1:15 PM | 4:30 PM | Art Stupka and Aaron Sharp were early naturalists who documented the biological diversity of the Smokies by keeping journals. Today's nature journals combine sketching, writing, and mixed media to record observations and reflections. Bring an unlined journal and join Mary Priestley, an avid nature journalist, to make a lasting memory of the Pilgrimage and other natural world experiences. DT: 40 min. Art supplies can be obtained at Arrowmont School of Art and Crafts in Gatlinburg. | None provided. | U - Metcalf Bottoms Picnic Shelter off of Little River Road |
| 33 | Salamander Foray from Low to High Elevation | Wednesday PM | 1:30 PM | 4:30 PM | Discover some of the 31 species of woodland and streamside salamanders, and discuss their unique life histories. A 1-mile easy walk. Prepare to get wet, maybe a little muddy, and bring a hand lens. | None provided. Carpool needed. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |
| 34 | Sketching Birds of the Smokies | Wednesday PM | 1:15 PM | 2:30 PM | Wildlife artist Chris Myers discusses ways to capture bird morphology and behavior on paper. Bring your sketchbook, pencils, pens, or watercolors. DT: 15 min. Meet at Training Room in basement of bathroom facility (see map page 25). https://www.facebook.com/Chris-Myers-Art-702564893092139/?fref=ts | None provided. | AB - Sugarlands Visitor Center Training Room - park in 3rd lot on right |
| 35 | Tree and Shrub Identification Walk at Metcalf Bottoms | Wednesday PM | 1:15 PM | 4:30 PM | An introduction to the identification of woody plants. Bring a hand lens. A 2-mile, easy walk. DT 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 36 | Trees and Wildflower Diversity of the Chimneys | Wednesday PM | 1:15 PM | 4:30 PM | Learn some basic parts of flowers and leaves and how to use them for identifying wildflowers and trees. Bring pencil, paper, and hand lens (not required). Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |

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| 37 | Trilliums of the Smokies Walk at Greenbrier | Wednesday PM | 1:15 PM | 4:30 PM | Travel with Tom Patrick, botanist with the Georgia Natural Heritage Program and trillium expert, to focus on the biology and diversity of trilliums in the park. Short, easy walks. Bring a hand lens. DT: 30 min. | None provided. Carpool needed. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |
| 38 | Wildflower and Cascades Walk Along Lynn Camp Prong | Wednesday PM | 1:45 PM | 6:15 PM | See myriad of wildflowers as you stroll past a number of cascades. A 4-mile moderate walk. DT: 45 min. | None provided. | AE - End of Tremont gravel road |
| 39 | Wildflower Hike at Cucumber Gap Trail - Short version | Wednesday PM | 1:30 PM | 4:30 PM | Walk through a secondary cove hardwood forest and enjoy the rich diversity of wildflowers. This trip ascends toward Cucumber Gap, then returns. A 2-mile, moderate walk. DT: 30 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |
| 39.5 | Wildflower Hike at Kanati Fork Trail | Wednesday PM | 1:45 PM | 4:30 PM | An exceptional site to see a lot of different species of spring ephemeral wildflowers, including painted trillium and Canada mayflower. A 2-mile, moderate walk. DT: 45 min. | None provided. | AA - Rockefeller Memorial at Newfound Gap to Rendezvous |
| 40 | Wildflower Hike at Noah "Bud" Ogle Trail | Wednesday PM | 1:30 PM | 4:45 PM | Walking through these former homesteads, you'll see a splendid variety of wildflowers and American chestnut tree remnants in the reforested fields. Short, easy walk. DT: 10 min. | None provided. | X - Noah "Bud Ogle" parking area of Cherokee Orchard Road |
| 41 | Wildflower Hike at Old Settlers Trail - Short version | Wednesday PM | 1:30 PM | 4:45 PM | Walking through these former homesteads, discover the many wildflowers now growing in the abandoned fields and among the stone chimneys and fences. Elevation change: 200' ascent. A 2 mile, moderate walk. Limit 25 people. DT: 30 min. Similar Programs: 22, 79 | None provided. Carpool needed. | Q - Greenbrier Road-Carpool from picnic area, 2.5 miles from Route 321 |

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|------|---|--------------|---------|---------|--|------------------------------------|---|
| 42 | Wildflower Hike at Porters Creek Trail - Short version | Wednesday PM | 1:30 PM | 4:45 PM | See abundant wildflowers, including painted trillium and many more. Pass old homesteads and a cemetery along this popular trail that leads to an old-growth cove hardwood forest. A 2 to 3-mile easy walk. DT: 30 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |
| 42.5 | Wildflower Hike at Ramsey Cascades Trail - Short version | Wednesday PM | 1:30 PM | 4:45 PM | A 4 to 6-mile round trip (not going all the way to the falls) will allow you to hike among the rich forests of the Ramsey Cascades Trail. You will try to make it at least 1.5-miles in to the large tulip poplars that stand like columns all around the trail. On this trip you'll see giant trees of old growth forests and the rich diversity of wildflowers that inhabit soil held on to these steep slopes by large exposed root networks. DT: 30 min. | None provided. Carpool needed. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |
| 43 | Wildflower Hike on the Appalachian Trail from Indian Gap to Newfound Gap | Wednesday PM | 1:30 PM | 4:45 PM | Pass from the closed canopy of the old growth Spruce-Fir forest into the open canopy of a pristine beech gap forest where early spring ephemeral wildflowers abound because of protections afforded from feral hog exclosures. A 1.5-mile moderate walk. Elevation change 500'. DT: 45 min. | None provided. Car shuttle needed. | AA - Rockefeller Memorial at Newfound Gap to begin car shuttle |

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| 44 | Artist-of-the-Year Reception at Arrowmont School of Arts and Crafts | Wednesday Evening | 5:30 PM | 7:00 PM | Arrowmont School of Arts and Crafts is proud to feature Judy Lavoie, the Spring Wildflower Pilgrimage's Artist-of-the-Year. Judy Lavoie, Bloodroot, was selected as the image for this year's Pilgrimage website, T-shirt, and other merchandise. Her artwork will be exhibited in the Geoffrey A. Wolpert Gallery from March 20 through April 27, 2019. A reception will be held on Wednesday, April 24, 5:00-7:00 pm. Refreshments provided. DT: 15 min. No daily Pilgrimage fee or registration required. | None provided. | C - Arrowmont School of Arts and Crafts |
| 45 | Bugs at Light at Ash Hopper Branch | Wednesday Evening | 8:30 PM | 10:30 PM | If you want to see some really cool insects, join University of Tennessee at Chattanooga entomologist Stylianos Chatzimanolis (Dr. C) as he attracts nocturnal moths, beetles and a wide diversity of other insects using a black light. Dress warmly, bring a headlamp or flashlight with a red cover, and hand lens. No trail walking. | None provided. | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 46 | Escuela Verde Charter School Exploration of Bats | Wednesday Evening | 7:30 PM | 9:30 PM | Follow chiropterologist Gary McCracken and his bat team to learn about bats and listen to their calls in the night. You will learn about the lives of bats, their niches in the ecosystem, and why it is important to preserve them. Short, easy walk. Bring warm clothes and a flashlight (preferably with a red light). DT: 10 min. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |

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| 47 | Nighttime Bat Walk in the Twin Creeks Area | Wednesday Evening | 7:30 PM | 9:30 PM | Follow chiropterologist Gary McCracken and his bat team to learn about bats and listen to their calls in the night. You will learn about the lives of bats, their niches in the ecosystem, and why it is important to preserve them. Short, easy walk. Bring warm clothes and a flashlight (preferably with a red light). DT: 10 min. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |
| 48 | Owl Prowl at Mynatt Park | Wednesday Evening | 9:00 PM | 10:30 PM | Listen and learn about the flying predator of the night. This 2-hour Owl Prowl is guided by Karen LaMere. Bring warm clothes and flashlight (preferably with a red light). Short, easy walk. DT: 15 min. Meet at vending/ bathroom area. | None provided. Carpool needed. | W - Mynatt Park parking area off of Cherokee Orchard Road to begin carpool |

THURSDAY

| Session No. | Session Name | Category | Start Time | End Time | Description | Transportation | Meeting Location (Codes, e.g., AG, correspond to locations on our website map, which contains GPS coordinates to enter into navigation tools, like phones.) |
|--------------------|---|------------------|-------------------|-----------------|--|--------------------------------|--|
| 49 | Birding and Wildflower Motorcade from Sugarlands to Cades Cove | Thursday All Day | 7:30 AM | 1:00 PM | Birders Mary Feely and Fred Holtzclaw will stop along the loop to explore birds in the Cove's varied habitats, including pine-oak forests, streams and wetlands, and open fields. Short, easy walks. Bring binoculars, lunch, water, rain gear, and comfortable walking shoes. | None provided. Carpool needed. | AC - Sugarlands Visitor Center - Bus Parking Lot |

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| 50 | Birding from Newfound Gap to Clingmans Dome | Thursday All Day | 7:00 AM | 1:00 PM | Join Roger Hedge, Indiana Natural Heritage Program ecologist, to look and listen for spring migrants and Appalachian specialties along Clingmans Dome Road. Short, easy walks. Bring binoculars, lunch, water, rain gear, and comfortable walking shoes. DT: 45 min. | None provided. | AA - Rockefeller Memorial at Newfound Gap to Rendezvous |
| 51 | Forest Forensics at Fighting Creek Gap | Thursday All Day | 8:30 AM | 4:30 PM | Join ecologist Paul Durr and botanist Ken McFarland to analyze clues of natural and human-induced impacts on trees and forests. The journey will include stops at different vegetation biomes to discuss their distributions on the landscape and evaluate their long-term survival in the wake of factors such as climate change or fire. Short, easy walks en route. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 15 min. | Vans provided | L - Fighting Creek Gap |
| 52 | Trilliums and Violets Walk at Greenbrier | Thursday All Day | 8:30 AM | 4:30 PM | Travel with botanists Tom Patrick of the Georgia Natural Heritage Program and Rick Phillippe, Illinois Natural History Survey, to focus on the biology and diversity of trilliums and violets in the park. Short, easy walks. Bring a hand lens, lunch, water, rain gear, and comfortable walking shoes. DT: 30 min. | None provided. Carpool needed. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |

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|----|--|------------------|---------|---------|--|--------------------------------|---|
| 53 | Wildflower and Wildfire Walk at the Chimney Tops | Thursday All Day | 8:00 AM | 4:30 PM | The November 2016 Chimney Tops 2 Fire originated on the north peak of Chimney Tops, spreading northward into the Sugarlands Valley over the next several days. Follow the trail as it ascends through an unburned, northern hardwood forest with a splendid display of spring wildflowers, ending at an observation platform 1/4-mile from the peaks. Elevation gain 1,400 ft. Strenuous, 3.5 mile walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 54 | Wildflower Hike at Abrams Falls Trail | Thursday All Day | 9:30 AM | 4:30 PM | Stroll along this river trail to discover wildflowers like gay wings, which flourish in this limestone valley. View one of the Park's more picturesque waterfalls. Elevation change: 500' ascent. A 5-mile, moderate hike. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 75 min. | None provided. | A - Abrams Falls parking Area in Cades Cove |
| 55 | Wildflower Hike at Meigs Creek and Curry Mountain Trails Loop | Thursday All Day | 8:30 AM | 4:30 PM | Numerous species of wildflowers are scattered along this trail as we pass through several wet and dry habitats. An 8.7-mile, strenuous loop-hike from Metcalf Bottoms to the Sinks. Encounter sixteen non-bridge stream crossings and waterfalls. Elevation change: 1,400' ascent. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 40 min. | None provided. Carpool needed. | U - Metcalf Bottoms Picnic Area off Little River Road |

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| 56 | Wildflower Hike at Old Settlers Trail - Long version | Thursday All Day | 8:30 AM | 4:30 PM | Walking through these former homesteads, discover the many wildflowers now growing in the abandoned fields and among the stone chimneys and fences. Elevation change: 700' ascent. A 6 to 8-mile, strenuous hike. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 30 min. | None provided. Carpool needed. | Q - Greenbrier Road-Carpool from picnic area, 2.5 miles from Route 321 |
| 57 | Aquatic Insect Diversity Walk at Twin Creeks | Thursday AM | 9:30 AM | 11:45 AM | Enjoy short walks on different order streams with Park entomologist Becky Nichols. Learn to collect and identify a variety of insects in pristine streams. Short, easy walk. DT: 10 min. | None provided. | AG - Twin Creeks Gravel Parking Lot off of Cherokee Orchard Road |
| 58 | Birding at the Townsend Wye | Thursday AM | 7:30 AM | 11:30 AM | Explore the Townsend Wye from the perspective of a bird with Kevin Burke from Great Smoky Mountains Institute at Tremont. We will watch the antics of northern rough-winged swallows by the bridge, check on the eastern phoebes who nest along the river, search the banks for little tail-bobbing Louisiana waterthrushes, and venture up the Chestnut Tops trail to look for and listen to a variety of spring migrants. Bring binoculars, water, rain gear, and comfortable walking shoes. DT: 45 min. | None provided. | AD - Townsend "Y" on Little River Road |
| 59 | Birding from Sugarlands to Newfound Gap | Thursday AM | 7:30 AM | 11:30 AM | Follow Tom Howe, former president of the Knoxville Tennessee Ornithological Society, to search for spring migrants and Appalachian specialties; starting at Sugarlands and ending at Newfound Gap. Bring binoculars and rain gear. Short, easy walks. http://www.knoxvillebirding.org | None provided. Carpool needed. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |

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|----|---|-------------|---------|----------|--|--------------------------------|---|
| 60 | Birding on School House Gap Trail | Thursday AM | 7:30 AM | 11:30 AM | Scan the trees along a stream for warblers, vireos, the scarlet tanager and American goldfinch, among other species, with Jay Sturner. Bring binoculars, water, rain gear, and comfortable walking shoes. DT: 45 min. | None provided. Carpool needed. | AD - Townsend "Y" on Little River Road to Begin Carpool |
| 61 | Black Bear and Wild Hogs in the Smokies | Thursday AM | 8:15 AM | 11:30 AM | Walk with David Whitehead, retired Tennessee Wildlife Resources Agency Manager, as he describes the life history, tracking signs, human impacts, and environmental issues of black bears and wild hogs in the Southern Appalachians and GSMNP. A 2 to 3-mile, easy walk. DT: 30 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |
| 62 | Escuela Verde Charter School Joins Citizen Science | Thursday AM | 8:15 AM | 11:45 AM | Tennessee and North Carolina are home to approximately 1.5 million plant specimens. To make a permanent record of a plant species location, a specimen is collected, pressed, mounted on a paper sheet, and stored in a herbarium. To make each plant's information available globally, a local and international digitizing effort is underway. This program introduces you to this National Science Foundation-sponsored effort to digitize these specimens to make available online. Come and learn about these specimens and how to properly handle them, become trained on their digitization (anyone can do it!), and contribute to this massive effort. DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |

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| 63 | Fern Walk at Little River above Elkmont | Thursday AM | 8:30 AM | 11:30 AM | Have you ever seen an adder's tongue or sang pointer? Come see a variety of the park's more common ferns and fern allies. Bring a hand lens. A 2-mile, easy walk. DT: 30 min. | None provided. | S - Little River Trailhead past Elkmont Campground |
| 64 | Hikin' for Lichens on the Spruce-Fir Nature Trail | Thursday AM | 8:30 AM | 11:45 AM | Come explore the fascinating world of lichens and the surprising roles these symbiotic organisms play in our world. Estimated to cover a respectable 7% -8% of the Earth's land surface, these organisms are largely unknown to most people, even though they are found all around us. We will introduce the basics of lichen growth forms, habitats, functions, and morphology as we hike along the trail. Participants will learn how to identify the major lichen growth forms and will be shown basic collecting techniques to assist them in discovering these interesting organisms for themselves. Bring a hand lens and comfortable walking shoes. An easy 1 mile walk. DT: 30 min. | None provided. Carpool needed. | AA - Rockefeller Memorial at Newfound Gap to begin carpool to Spruce-Fir Nature Trail |
| 65 | Nature Journaling at Metcalf Bottoms Picnic Area | Thursday AM | 8:30 AM | 11:30 AM | Art Stupka and Aaron Sharp were early naturalists who documented the biological diversity of the Smokies by keeping journals. Today's nature journals combine sketching, writing, and mixed media to record observations and reflections. Bring an unlined journal and join Mary Priestley, an avid nature journalist, to make a lasting memory of the Pilgrimage and other natural world experiences. DT: 40 min. Art supplies can be obtained at Arrowmont School of Art and Crafts in Gatlinburg. | None provided. | U - Metcalf Bottoms Picnic Area off of Little River Road |

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| 66 | Photography of Flowers Using Point and Shoot | Thursday AM | 8:15 AM | 11:30 AM | Learn how to improve your wildflower images with a point and shoot camera. Authors Jack Carman (Wildflowers of Tennessee) and Robert Hutson (Great Smoky Mountain Wildflowers: When and Where to Find Them) give hands-on instruction in composition and photo techniques. Bring a point and shoot camera and tripod. A 2-mile, easy walk. DT: 15 min. | None provided. | AB - Sugarlands Visitor Center Training Room - park in 3rd lot on right |
| 67 | Photography of Landscapes | Thursday AM | 7:00 AM | 11:30 AM | <p>Join local Nature and Wildlife Photographer Barry Spruce for a morning of landscape photography in the beautiful Cades Cove valley. Meet in Townsend and carpool up to the cove, and capture picturesque, early-morning landscapes, including Sparks Lane, Abrams and Mill Creeks, Rich Mountain and early morning fog if present that day. Barry can help you with setup at key locations and tips for better results with the current lighting. He will move the group from one location to another during the morning capturing each spot and moment in time.</p> <p>Please be sure to wear appropriate hiking shoes and apparel suited for the season and terrain of creeks, trails, and fields. You may want to also prepare by having bug spray, sunglasses, hat and water. For best results bring the following photography gear - Tripod, camera, wide angle and shorter telephoto lenses.</p> | None provided. Carpool needed. | Cades Cove Gallery |

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| 68 | Them Crazy Bones | Thursday AM | 9:00 AM | 11:45 AM | What's the difference between antlers and horns? Did you know moles have a fake thumb? Can you tell what an animal eats based on its teeth? Who has a bigger head, a cow or a pig? Explore vertebrate biology in a new way by examining the skulls and skeletons of native and domesticated fauna. Look under a turtle's shell, see what it takes for a bird to fly, pet a vulture; all without the risk of getting bitten or sprayed. Come discover the exciting world of osteology with biologist Chris Brown's bone collection. | None provided. | AH - UT Field Station at Greenbrier |
| 69 | Tour the GSMNP Natural History Museum at Twin Creeks | Thursday AM | 9:30 AM | 11:00 AM | Come tour the natural history collections that have been used to document the biodiversity of the GSMNP since its beginnings. In this "behind locked doors" tour of the GSMNP Natural History Museum, you will see specimens of mammals, birds, fungi, insects, and plants and learn about their importance to the Park! | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |
| 70 | Tree and Shrub Identification Walk at Metcalf Bottoms | Thursday AM | 8:30 AM | 11:45 AM | An introduction to the identification of woody plants. Bring a hand lens. A 2-mile, easy walk. DT 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 71 | Wildflower Hike at Cove Hardwood Nature Trail | Thursday AM | 8:30 AM | 11:30 AM | Observe abundant wildflowers, including dwarf ginseng and fringed phacelia, in this old-growth forest. Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |
| 72 | Wildflower Hike at Kanati Fork Trail | Thursday AM | 8:45 AM | 11:45 AM | An exceptional site to see a lot of different species of spring ephemeral wildflowers, including painted trillium and Canada mayflower. A 2-mile, moderate walk. DT: 45 min. | None provided. | AA - Rockefeller Memorial at Newfound Gap to Rendezvous |

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| 73 | Wildflower Hike at Noah "Bud" Ogle Trail | Thursday AM | 8:15 AM | 11:45 AM | Walking through these former homesteads, you'll see a splendid variety of wildflowers and American chestnut tree remnants in the reforested fields. Short, easy walk. DT: 10 min. | None provided. | X - Noah "Bud Ogle" parking area of Cherokee Orchard Road |
| 74 | Wildflower Hike at Porters Creek Trail - Short version | Thursday AM | 8:30 AM | 11:45 AM | See abundant wildflowers, including painted trillium and many more. Pass old homesteads and a cemetery along this popular trail, which leads to an old-growth cove hardwood forest. A 2 to 3-mile easy walk. DT: 30 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |
| 75 | Wildflower Hike on the Appalachian Trail from Indian Gap to Newfound Gap | Thursday AM | 8:30 AM | 11:30 AM | Pass from the closed canopy of the old growth Spruce-Fir forest into the open canopy of a pristine beech gap forest where early spring ephemeral wildflowers abound because of protections afforded from feral hog exclosures. A 1.5-mile moderate walk. Elevation change 500'. DT: 45 min. | None provided. Carpool needed. | AA - Rockefeller Memorial at Newfound Gap to begin car shuttle |
| 76 | Wildflower Hike on the Quiet Walkway | Thursday AM | 8:00 AM | 11:45 AM | This easy walk from Newfound Gap Road to the river has a rich diversity of wildflowers and some species of woody plants not easily observable in other portions of the Park. Dutchman's pipe and pawpaw are also often seen in flower along the path. A 2-mile, easy walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 77 | Yoga Class at Walker Sisters Cabin | Thursday AM | 8:45 AM | 11:45 AM | Join Yoga instructor Kelly Daniels on a 2-mile journey to the Walker Sisters Cabin on the Metcalf Bottoms Trail to exercise and relax in this serene environment before hiking 2-miles back. Bring an exercise mat or large towel and water. A 4-mile moderate hike. DT: 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |

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| 78 | Citizen Science Training for Beginners - you can make a difference! | Thursday PM | 1:15 PM | 4:45 PM | Tennessee and North Carolina are home to approximately 1.5 million plant specimens. To make a permanent record of a plant species' location, a specimen is collected, pressed, mounted on a paper sheet, and stored in a herbarium. To make each plant's information available globally, a local and international digitizing effort is underway. This program introduces you to this National Science Foundation-sponsored effort to digitize these specimens to make available online. Come and learn about these specimens and how to properly handle them, become trained on their digitization (anyone can do it!), and contribute to this massive effort. DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |
| 79 | Escuela Verde Charter School looks into: Parasites! Hidden Biodiversity of the Smokies | Thursday PM | 1:30 PM | 4:45 PM | Parasite Ecologist Ricky Fiorillo from Georgia-Gwinnett College will discuss the natural history and ecology of a too often unappreciated component of our hidden biodiversity while guiding you through a hands-on dissection searching for worm parasites in a natural host. Each participant will examine the heart, liver, and digestive tract of common freshwater fish species for these fascinating organisms. See for yourself just how interesting, and beautiful parasites can be! And, why they are an important component of our ecosystem. (Minimum age to perform dissections is High School, but anyone can watch!) DT: 20 min. | None provided. | AH - UT Field Station at Greenbrier |

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| 80 | Fungi of Alum Cave Trail | Thursday PM | 1:15 PM | 4:30 PM | Fungi are essential organisms in the nutrient and life cycles within ecosystems. Learn from expert mycologists about fungal biology and its importance in the forest ecosystem. Leaders will also discuss classification and edible vs. poisonous fungi. A 2 to 3-mile, easy walk. DT: 60 min. | None provided. | B - Alum Cave Trailhead: 8.7 miles |
| 81 | History of Fighting Creek and Forks of the River | Thursday PM | 1:30 PM | 4:30 PM | Hike with a GSMNP Ranger to learn the history of these communities and see remnants of days gone by. A 2-mile easy walk. DT: 15 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |
| 82 | History of the Walker Sisters Cabin and Little Greenbrier School | Thursday PM | 12:30 PM | 4:30 PM | Meet volunteer Frances Hensley at Metcalf Bottoms and walk to the Little Greenbrier Schoolhouse. There, join long-time school marm Robin Goddard on a stroll back in time to discover the history of the schoolhouse and the famous Walker Sisters. A 3.4-mile moderate hike. DT: 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 83 | Lore of the Herbs of Appalachia in the Smokies | Thursday PM | 1:00 PM | 4:30 PM | Learn about the edible, medicinal, and otherwise useful plants of our area with Ila Hatter, Wanda DeWaard, and Brittney Hughes. Short, easy walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 84 | Millipedes, centipedes, and friends on the Gatlinburg Trail | Thursday PM | 1:15 PM | 4:30 PM | Join Derek Hennen, Entomology PhD student at Virginia Tech, on a hike through the undergrowth in search of anything with lots of legs. You'll see astounding millipedes, beautiful insects, and anything else that likes to hide under leaves and logs. The biodiversity of the leaf litter is an unknown frontier sure to surprise and astound you. This one will be fun for all ages! A 2.5 mile, easy trail. | None provided. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |

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| 85 | Moss Walk Along Sugarlands Mountain Trail at Mt. Collins | Thursday PM | 1:45 PM | 4:30 PM | Join University of Tennessee professor, Jessica Budke, and discover the distinctive flora of the high elevation mosses and liverworts along the trail. Bring a hand lens. A 1 to 2-mile, moderate walk. DT: 45 min. | None provided. | AA - Rockefeller Memorial at Newfound Gap to Rendezvous |
| 86 | Parasites! An Important Component of Our Hidden Biodiversity | Thursday PM | 1:30 PM | 4:30 PM | Parasite Ecologist Ricky Fiorillo from Georgia-Gwinnett College will discuss the natural history and ecology of a too often unappreciated component of our hidden biodiversity while guiding you through a hands-on dissection searching for worm parasites in a natural host. Each participant will examine the heart, liver, and digestive tract of common freshwater fish species for these fascinating organisms. See for yourself just how interesting, and beautiful parasites can be! And, why they are an important component of our ecosystem. (Minimum age to perform dissections is High School, but anyone can watch!) DT: 20 min. | None provided. | AH - UT Field Station at Greenbrier |
| 87 | Photography of Flowers Motorcade | Thursday PM | 1:15 PM | 4:30 PM | Travel with authors Jack Carman (Wildflowers of Tennessee) and Robert Hutson (Great Smoky Mountain Wildflowers: When and Where to Find Them) to nearby wildflower locations to learn basic to advanced techniques for photographing wildflowers. They provide hands-on instruction and assistance. Short, easy walks. | None provided. Carpool needed. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |

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| 88 | Salamander Motorcade in the Smokies | Thursday PM | 1:15 PM | 4:30 PM | Travel to a diversity of habitats to discover some of the 31 species of woodland and aquatic salamanders which reside in the park. Short, easy walks. Prepare to get wet and bring a hand lens. | None provided. Carpool needed. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |
| 89 | Sketching Wildflowers at Twin Creeks Pavilion | Thursday PM | 1:15 PM | 4:30 PM | View wildflowers through the eyes of botanist-artist Maurice Edwards, featured artist at the 2013 Spring Wildflower Pilgrimage. Bring your own art materials. Short, easy walk. DT: 10 min. medwards@netscape.com. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |
| 90 | Tree Identification for Beginners at Chimneys Picnic Area | Thursday PM | 1:15 PM | 4:30 PM | An introduction to the identification of woody plants. Bring a hand lens. A moderate 1.5-mile walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |
| 91 | Wildflower and Cascades Walk Along Lynn Camp Prong | Thursday PM | 1:45 PM | 4:30 PM | See myriad of wildflowers as you stroll past a number of cascades. A 4-mile moderate walk. DT: 45 min. | None provided. | AE - End of Tremont gravel road |
| 92 | Wildflower Hike at Chestnut Top Trail | Thursday PM | 1:30 PM | 4:30 PM | One of the grandest wildflower displays in the Smokies. A 2-mile, moderate walk. DT: 45 min. | None provided. | AD - Townsend "Y" on Little River Road |
| 93 | Wildflower Hike at Cove Hardwood Nature Trail | Thursday PM | 1:30 PM | 4:30 PM | Observe abundant wildflowers, including dwarf ginseng and fringed phacelia, in this old-growth forest. Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |
| 94 | Wildflower Hike at Cucumber Gap Trail - Short version | Thursday PM | 1:30 PM | 4:30 PM | Walk through a secondary cove hardwood forest and enjoy the rich diversity of wildflowers. This trip ascends toward Cucumber Gap, then returns. A 2-mile, moderate walk. DT: 30 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |
| 95 | Wildflower Hike at Kanati Fork Trail | Thursday PM | 1:45 PM | 4:45 PM | An exceptional site to see a lot of different species of spring ephemeral wildflowers including painted trillium and Canada mayflower. A 2-mile, moderate walk. DT: 45 min. | None provided. | AA - Rockefeller Memorial at Newfound Gap to Rendezvous |

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| 96 | Wildflower Hike at Little River Above Elkmont | Thursday PM | 1:30 PM | 4:45 PM | Walk up this former logging railroad bed and discover the tenacity of nature in recovering from the massive logging operations which cleared this valley early in the 20th century. Many species of wildflowers, ferns, and trees dot the landscape and are easily observable. Elevation change: 200' ascent. A 2-mile, easy walk. DT: 30 min. | None provided. | S - Little River Trailhead past Elkmont Campground |
| 97 | Wildflower Hike on the Appalachian Trail from Indian Gap to Newfound Gap | Thursday PM | 1:30 PM | 4:45 PM | Pass from the closed canopy of the old growth spruce-fir forest into the open canopy of a pristine beech gap forest where early spring ephemeral wildflowers abound because of protections afforded from feral hog exclosures. A 1.5-mile moderate walk. Elevation change 500'. DT: 45 min. | None provided. Car shuttle needed. | AA - Rockefeller Memorial at Newfound Gap to Rendezvous |
| 98 | Wildflower Hike on the Quiet Walkway | Thursday PM | 1:00 PM | 4:45 PM | Accompany this all-star team of botanists and plant ecologists on a hike that has become a Pilgrimage tradition. This easy walk from Newfound Gap Road to the river has a rich diversity of wildflowers, trees and shrubs, and plant communities and all along the way you'll be treated to the musings of this notable cast. A 2-mile, easy walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 99 | Wildflower Identification for Beginners at Chimneys Picnic Area | Thursday PM | 1:15 PM | 4:30 PM | Learn some basic parts of flowers and leaves and how to use them for identifying wildflowers and trees. Bring pencil, paper, and hand lens (not required). Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |

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| 100 | Bugs at Light at Twin Creeks | Thursday Evening | 8:30 PM | 10:30 PM | If you want to see some really cool insects, join University of Tennessee at Chattanooga entomologist Stylianos Chatzimanolis (Dr. C) as he attracts nocturnal moths, beetles and a wide diversity of other insects using a black light. Dress warmly, bring a headlamp or flashlight with a red cover, and hand lens. No trail walking. DT: 10min. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |
| 102 | Escuela Verde Charter School on the Owl Prowl | Thursday Evening | 9:00 PM | 10:30 PM | Listen and learn about the flying predator of the night. This 2-hour Owl Prowl is guided by Karen LaMere. Bring warm clothes and flashlight (preferably with a red light). Short, easy walk. DT: 15 min. Meet at vending/ bathroom area. | None provided. Carpool needed. | W - Mynatt Park parking area off of Cherokee Orchard Road to begin carpool |
| 103 | Lichens at Night in the Smokies | Thursday Evening | 8:00 PM | 10:30 PM | Come explore the fascinating world of lichens at night! Many lichens produce secondary chemicals and metabolites that fluoresce brightly under UV light. Using handheld UV lights to scan tree trunks and rocks we will search for lichens with brilliant colors of yellow, orange, electric blue, and more on this unique lichen night walk. Bring a flashlight, warm clothes and comfortable walking shoes. There will be 4-5 UV lights that may be borrowed but if you have one bring it along. This will be a short, easy walk. | None provided. Carpool needed. | AC - Sugarlands Visitor Center - Bus Parking Lot |

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| 104 | Wildflowers By Light: Sights and Sounds at Night on Porters Creek Trail | Thursday Evening | 7:00 PM | 9:30 PM | Experience the Smokies like the folks who lived there. Join naturalists Annette Ranger and Doris Gove on a walk at dusk to the hiker's cabin to enjoy dinner on the porch. Observe wildflowers closing along the trail as night falls. See the sights and listen to sounds of the night wilderness as you eat. Bring your own food and beverage (NOT REQUIRED, but none supplied), warm clothes, flashlight (with red light/lens, if you can) and hand lens. Moderate 2-mile walk. DT: 35 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |
| 105 | Wildflowers, Fire and the Sixth Extinction | Thursday Evening | 7:30 PM | 8:30 PM | Cecil Frost is a landscape fire ecologist at Appalachian State University who specializes in making maps of natural fire and historical vegetation. He received his doctorate from the University of North Carolina and was a member of the national team for mapping Fire Regime Condition Class, a precursor to LANDFIRE. He has produced maps of historical fire frequency for over 3 million-acres of lands for US Forest Service, the Fish and Wildlife Service, the National Park Service, a number of military bases, and tribal lands in the West. In 2016, he received the Herbert Stoddard award for Lifetime Achievement in Fire Ecology from the Association for Fire Ecology. | None provided. | C - Arrowmont School of Arts and Crafts |

Friday

| Session No. | Session Name | Category | Start Time | End Time | Description | Transportation | Meeting Location (Codes, e.g., AG, correspond to locations on our website map, which contains GPS coordinates to enter into navigation tools, like phones.) |
|-------------|--|----------------|------------|----------|---|--------------------------------|---|
| 106 | Birding and Wildflower Motorcade from Mynatt Park to Newfound Gap | Friday ALL DAY | 7:30 AM | 1:00 PM | Starting at a low elevation, plant and bird naturalists Fred Holtzclaw and Laura Marsh guide the group to sites along US 441 to observe a diversity of birds as elevation increases. Short, easy walks. Bring binoculars, lunch, water, rain gear, and comfortable walking shoes. DT: 10 min. | None provided. Carpool needed. | W - Mynatt Park parking area off of Cherokee Orchard Road to begin carpool |
| 107 | Birding on Alum Cave Trail | Friday ALL DAY | 7:00 AM | 2:00 PM | With naturalist and birder, Jay Sturner, look for peregrine falcons, black-throated blues, black-throated greens, blue-headed vireos, and possibly Canada and blackburnian warblers. Listen to the signs of spring in the Park's middle elevations. Pass through Arch Rock, view the Eye of the Needle, and Alum Cave Bluff. Elevation change 1100'. A 4.6-mile strenuous hike. Bring binoculars, lunch, water, rain gear, and comfortable walking shoes. DT: 35 min. | None provided. | B - Alum Cave Trailhead--8.7 miles south on US 441 from Sugarlands Visitor Center |

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| 108 | Escuela Verde Charter School Studies Fire Ecology | Friday ALL DAY | 8:00 AM | 4:30 PM | The November 2016 Chimney Tops 2 Fire originated on the north peak of Chimney Tops, spreading northward into the Sugarlands Valley over the next several days. Follow the trail as it ascends through an unburned northern hardwood forest with a splendid display of spring wildflowers, ending at an observation platform 1/4-mile from the peaks. Elevation gain 1,400 ft. Strenuous, 3.5-mile walk. | None provided. | |
| 109 | Wildflower and Wildfire Walk at the Chimney Tops | Friday ALL DAY | 8:00 AM | 4:30 PM | The November 2016 Chimney Tops 2 Fire originated on the north peak of Chimney Tops, spreading northward into the Sugarlands Valley over the next several days. Follow the trail as it ascends through an unburned northern hardwood forest with a splendid display of spring wildflowers, ending at an observation platform 1/4-mile from the peaks. Elevation gain 1,400 ft. Strenuous, 3.5-mile walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 110 | Wildflower Hike at Abrams Falls Trail | Friday ALL DAY | 9:30 AM | 4:30 PM | Stroll along this river trail to discover wildflowers like gay wings which flourish in this limestone valley. View one of the Park's more picturesque waterfalls. Elevation change: 500' ascent. A 5-mile, moderate hike. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 75 min. | None provided. | A - Abrams Falls Parking Area in Cades Cove |

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| 111 | Wildflower Hike at Cucumber Gap Trail - Long version | Friday ALL DAY | 8:30 AM | 4:30 PM | Walk through a cove hardwood forest and enjoy many wildflowers. Along this trail you could encounter painted trillium, Dutchman's pipe, yellow-wood and pawpaw in flower. Elevation change: 400'. A 5-mile, moderate hike. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 30 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |
| 112 | Wildflower Hike at Porters Creek Trail - Long version | Friday ALL DAY | 8:30 AM | 4:30 PM | See abundant wildflowers including painted trillium and many more. Pass old homesteads and a cemetery along this popular trail which leads to an old-growth cove hardwood forest. A 2 to 3-mile easy walk. DT: 30 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |
| 113 | Wildflower Hike on Huskey Gap, Cucumber Gap to Jakes Creek trail and the Avent Cabin | Friday ALL DAY | 8:15 AM | 4:30 PM | PHYSICALLY CHALLENGING. Follow Doris Gove, author of Exploring the Appalachian Trail: Georgia, North Carolina, Tennessee, on a one way trek on Huskey Gap, Cucumber Gap and Jakes Creek trails to the Avent Cabin. Maximum elevation change 1,500'. A 6-mile strenuous one way hike. Bring lunch, water, rain gear, and comfortable walking shoes. See Backcountry Hike Suggestions. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 114 | Wildflower Hike on Long Bunk, Mt. Sterling, and Little Cataloochee Trails | Friday ALL DAY | 9:30 AM | 4:30 PM | A splendid wildflower show awaits those who venture on these little-traveled trails which lead through a rich, second-growth forest. Elevation change: 1,120' descent. A 5.2-mile, moderate, one-way hike. Bring lunch, water, rain gear, a hand lens, and comfortable walking shoes. DT: 70 min. | None provided. Car shuttle needed. | V - Mt. Sterling Gap on Old NC 284--7 miles southeast of Big Creek to begin car shuttle |

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| 115 | Birding on School House Gap Trail | Friday AM | 7:30 AM | 11:30 AM | Scan the trees along a stream for warblers, vireos, the scarlet tanager and American goldfinch, among other species, with Tom Howe, former president of the Knoxville Tennessee Ornithological Society. Bring binoculars, water, rain gear, and comfortable walking shoes. DT: 45 min. http://www.knoxvillebirding.org | None provided. Carpool needed. | AD - Townsend "Y" on Little River Road to begin carpool |
| 116 | Birding the East End of Cades Cove | Friday AM | 7:30 AM | 10:00 AM | Join National Park Service Volunteer Warren Bielenberg and Outdoor Educator, Wanda DeWaard, for a bird walk at the east end of Cades Cove. See and hear birds of the forest and streamside. Birders of all levels welcome. Bring binoculars. A 1.5-mile easy walk. DT: 60 min. | None provided. | D - Cades Cover Campground Store Parking Lot |
| 117 | Black Bear and Wild Hogs in the Smokies | Friday AM | 8:15 AM | 11:30 AM | Walk with David Whitehead, retired Tennessee Wildlife Resources Agency Manager, as he describes the life history, tracking signs, human impacts, and environmental issues of black bears and wild hogs in the southern Appalachians and GSMNP. A 2 to 3-mile, easy walk. DT: 30 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |

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| 118 | Citizen Science Training for Beginners - you can make a difference! | Friday AM | 8:15 AM | 11:45 AM | Tennessee and North Carolina are home to approximately 1.5 million plant specimens. To make a permanent record of a plant species' location, a specimen is collected, pressed, mounted on a paper sheet, and stored in a herbarium. To make each plant's information available globally, a local and international digitizing effort is underway. This program introduces you to this National Science Foundation-sponsored effort to digitize these specimens to make available online. Come and learn about these specimens and how to properly handle them, become trained on their digitization (anyone can do it!), and contribute to this massive effort. DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |
| 119 | Fern Walk at Greenbrier Cove | Friday AM | 8:30 AM | 11:30 AM | Learn about the ferns of the Smokies! Bring a hand lens. A 2-mile, easy walk. DT: 20 min. | None provided. Carpool needed. | Q - Greenbrier Road-Carpool from picnic area, 2.5 miles from Route 321 |
| 120 | Forest Foods and Pharmacy at Metcalf Bottoms Picnic Area | Friday AM | 8:30 AM | 11:30 AM | Learn about the edible, medicinal, and otherwise useful plants of our area with Ila Hatter and Brittney Hughes. A 3-mile, easy walk. DT: 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 121 | Native People's Use of Nature's Garden at Twin Creeks Pavilion | Friday AM | 8:15 AM | 11:30 AM | Gather at the cook fire with Native American Karen LaMere (Ho-Chunk) and listen to an oral history which has been passed down through the generations by America's indigenous people. Taste and discover ingenious uses of native plants. Short, easy walk. DT: 10 min. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |

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| 122 | Photography at Small Scales: Macrophotography | Friday AM | 8:15 AM | 11:30 AM | Learn how to improve your pictures of spore plants such as mosses and ferns. Annkatrin Rose, from Appalachian State University, will help you take a closer look at these plants and their reproductive structures. Bring a camera with macro lens and/or zoom to get up close and personal with nature. The macro lens isn't needed, and you might even just want to use your cell phone camera and these would still allow you to learn some cool new techniques and have a great time. Tripods are optional. You may want to bring a hand lens or magnifying glass and some plastic bags to protect your gear or pants when lying on the ground and getting personal with the spore plants! | None provided. | M - Greenbrier Ranger Station |
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| 122.25 | Photography of Landscapes | Friday AM | 7:00 AM | 11:30 AM | <p>Join local Nature and Wildlife Photographer Barry Spruce for a morning of landscape photography in the beautiful Cades Cove valley. Meet in Townsend and carpool up to the cove, and capture picturesque, early-morning landscapes, including Sparks Lane, Abrams and Mill Creeks, Rich Mountain and early morning fog if present that day. Barry can help you with setup at key locations and tips for better results with the current lighting. He will move the group from one location to another during the morning capturing each spot and moment in time.</p> <p>Please be sure to wear appropriate hiking shoes and apparel suited for the season and terrain of creeks, trails, and fields. You may want to also prepare by having bug spray, sunglasses, hat and water. For best results bring the following photography gear - Tripod, camera, wide angle and shorter telephoto lenses.</p> | None provided. Carpool needed. | Cades Cove Gallery, 7843 E. Lamar Alexander Pkwy |
| 123 | Sketching Wildflowers at Twin Creeks Pavilion | Friday AM | 8:15 AM | 11:30 AM | View wildflowers through the eyes of botanist-artist Maurice Edwards, featured artist at the 2013 Spring Wildflower Pilgrimage. Bring your own art materials. Short, easy walk. DT: 10 min. medwards@netscape.com. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |

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| 124 | Tour the GSMNP Natural History Museum at Twin Creeks | Friday AM | 9:30 AM | 11:00 AM | Come tour the natural history collections that have been used to document the biodiversity of the GSMNP since its beginnings. In this "behind locked doors" tour of the GSMNP Natural History Museum, you will see specimens of mammals, birds, fungi, insects, and plants and learn about their importance to the Park! DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |
| 125 | Wildflower Hike at Chestnut Top Trail | Friday AM | 8:45 AM | 11:45 AM | One of the grandest wildflower displays in the Smokies. A 2-mile, moderate walk. DT: 45 min. | None provided. | AD - Townsend "Y" on Littler River Road |
| 126 | Wildflower Hike at Huskey Gap Trail | Friday AM | 8:00 AM | 11:45 AM | Walk the old trail that connected the settlers of Sugarlands Valley and Little River as you view the wildflower displays and homesites along the way. Elevation change: 1,000'. A 2-mile, moderate walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 127 | Wildflower Hike at Noah "Bud" Ogle Trail | Friday AM | 8:15 AM | 11:45 AM | Walking through these former homesteads, you'll see a splendid variety of wildflowers and American chestnut tree remnants in the reforested fields. Short, easy walk. DT: 10 min. | None provided. | X - Noah "Bud Ogle" parking area of Cherokee Orchard Road |
| 128 | Wildflower Hike at Old Settlers Trail - Short version | Friday AM | 8:30 AM | 11:45 AM | Walking through these former homesteads, discover the many wildflowers now growing in the abandoned fields and among the stone chimneys and fences. Elevation change: 200' ascent. A 2 mile, moderate walk. Limit 25 people. DT: 30 min. Similar Programs: 22, 79 | None provided. Carpool needed. | Q - Greenbrier Road-Carpool from picnic area, 2.5 miles from Route 321 |

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| 129 | Wildflower Hike on the Appalachian Trail from Indian Gap to Newfound Gap | Friday AM | 8:30 AM | 11:45 AM | Pass from the closed canopy of the old growth Spruce-Fir forest into the open canopy of a pristine beech gap forest where early spring ephemeral wildflowers abound because of protections afforded from feral hog exclosures. A 1.5-mile moderate walk. Elevation change 500'. DT: 45 min. | None provided. Carpool needed. | AA - Rockefeller Memorial at Newfound Gap to begin car shuttle |
| 130 | Wildflower Hike on the Quiet Walkway | Friday AM | 8:00 AM | 11:45 AM | This easy walk from Newfound Gap Road to the river has a rich diversity of wildflowers and some species of woody plants not easily observable in other portions of the Park. Dutchman's pipe vine and pawpaw are also often seen in flower along the path. A 2-mile, easy walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 131 | Wildflower Identification for Beginners at Chimneys Picnic Area | Friday AM | 8:30 AM | 11:45 AM | Learn some basic parts of flowers and leaves and how to use them for identifying wildflowers and trees. Bring pencil, paper, and hand lens (not required). Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |
| 132 | Wildflowers, Folklore and History of Big Greenbrier | Friday AM | 8:30 AM | 11:45 AM | Discover a diversity of wildflowers and hear stories of days gone by with Park Volunteer Frances Hensley, also known as Granny Frannie. A 3.5-mile, moderate hike. DT: 30 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |
| 133 | Yoga Class at Walker Sisters Cabin | Friday AM | 8:45 AM | 11:45 AM | Join Yoga instructor Kelly Daniels on a 2-mile journey to the Walker Sisters Cabin on the Metcalf Bottoms Trail to exercise and relax in this serene environment before hiking 2-miles back. Bring an exercise mat or large towel and water. A 4-mile moderate hike. DT: 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |

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| 134 | Birding Along Cades Cove Loop Road | Friday PM | 1:00 PM | 4:30 PM | Join National Park Service Volunteer Warren Bielenberg and Outdoor Educator, Wanda DeWaard for birding in a diversity of habitats along the Loop Road. Birders of all levels welcome. Bring binoculars. Short, easy walks. DT: 60 min. | None provided. | D - Cades Cove Campground Store Parking Lot |
| 135 | Citizen Science Training for Beginners - you can make a difference! | Friday PM | 1:15 PM | 4:45 PM | Tennessee and North Carolina are home to approximately 1.5 million plant specimens. To make a permanent record of a plant species' location, a specimen is collected, pressed, mounted on a paper sheet, and stored in a herbarium. To make each plant's information available globally, a local and international digitizing effort is underway. This program introduces you to this National Science Foundation-sponsored effort to digitize these specimens to make available online. Come and learn about these specimens and how to properly handle them, become trained on their digitization (anyone can do it!), and contribute to this massive effort. DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |
| 136 | Fern Walk at Little River above Elkmont | Friday PM | 1:30 PM | 4:30 PM | Have you ever seen an adder's tongue or sang pointer? Come see a variety of the park's more common ferns and fern allies. Bring a hand lens. A 2-mile, easy walk. DT: 30 min. | None provided. | S - Little River Trailhead past Elkmont Campground |

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| 137 | Fungal Roles in Forest Ecology at Cosby Picnic Area | Friday PM | 1:30 PM | 4:30 PM | Fungi are essential organisms in the nutrient and life cycles within ecosystems. Learn from expert mycologists about fungal biology and its importance in the forest ecosystem. Leaders will also discuss classification and edible vs. poisonous fungi. A 2-3 mile, easy walk. DT: 60 min. | None provided. | J - Cosby Picnic Area, off TN Route 32-- Hiker Parking lot on left |
| 138 | Millipedes, centipedes, and friends on the Indian Gap to Newfound Gap Trail | Friday PM | 1:30 PM | 4:30 PM | Join Derek Hennen, Entomology PhD student at Virginia Tech, on a hike through the undergrowth in search of anything with lots of legs. You'll see astounding millipedes, beautiful insects, and anything else that likes to hide under leaves and logs. Pass from the closed canopy of the old growth Spruce-Fir forest into the open canopy of a pristine beech gap forest protected by feral hog exclosures. A 1.5-mile moderate walk. Elevation change 500'. DT: 45 min. This one will be fun for all ages! | None provided. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |
| 139 | Moss Walk Along Injun Creek Trail in Greenbrier | Friday PM | 1:30 PM | 4:30 PM | Discover the elegant forms of moss, liverwort, and hornwort and ways to recognize them. Bring a hand lens. A 3-mile, easy walk. DT: 30 min. | None provided. | M - Greenbrier Ranger Station |
| 140 | Native People's Use of Nature's Garden at Twin Creeks Pavilion | Friday PM | 1:15 PM | 4:30 PM | Gather at the cook fire with Native American Karen LaMere (Ho-Chunk) and listen to an oral history which has been passed down through the generations by America's indigenous people. Taste and discover ingenious uses of native plants. Short, easy walk. DT: 10 min. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |

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| 141 | Photography (Advanced) of Flowers with SLR Cameras | Friday PM | 1:15 PM | 4:30 PM | Learn how to improve your wildflower images with SLR. Authors Jack Carman (Wildflowers of Tennessee) and Robert Hutson (Great Smoky Mountain Wildflowers: When and Where to Find Them) give a short visual presentation, then migrate outside for hands-on instruction in composition and photo technique. Bring SLR camera and tripod. A 2-mile, easy walk. DT: 15 min. | None provided. | AB - Sugarlands Visitor Center Training Room - park in 3rd lot on right |
| 142 | Salamander Foray at Cosby Picnic Area | Friday PM | 1:45 PM | 4:30 PM | Discover some of the 31 species of woodland and aquatic salamanders which reside in the Park. Prepare to get wet, maybe a little muddy, and bring a hand lens. Elevation change: 300' ascent. A 2-mile, easy walk. DT: 60 min. | None provided. | J - Cosby Picnic Area off TN Route 32-- Hiker parking lot on left |
| 143 | Tree and Shrub Identification Walk at Metcalf Bottoms | Friday PM | 1:15 PM | 4:30 PM | An introduction to the identification of woody plants. Bring a hand lens. A 2-mile, easy walk. DT 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 144 | Trilliums of the Smokies Walk at Greenbrier | Friday PM | 1:15 PM | 4:30 PM | Travel with Tom Patrick, botanist with the Georgia Natural Heritage Program and trillium expert, to focus on the biology and diversity of trilliums in the park. Short, easy walks. Bring a hand lens. DT: 30 min. | None provided. Carpool needed. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |
| 145 | Wildflower and Cascades Walk Along Lynn Camp Prong | Friday PM | 1:45 PM | 4:30 PM | See myriad of wildflowers as you stroll past a number of cascades. A 4-mile moderate walk. DT: 45 min. | None provided. | AE - End of Tremont gravel road |
| 146 | Wildflower Hike at Chestnut Top Trail | Friday PM | 1:30 PM | 4:30 PM | One of the grandest wildflower displays in the Smokies. A 2-mile, moderate walk. DT: 45 min. | None provided. | AD - Townsend "Y" on Little River Road |
| 147 | Wildflower Hike at Cove Hardwood Nature Trail | Friday PM | 1:30 PM | 4:30 PM | Observe abundant wildflowers, including dwarf ginseng and fringed phacelia, in this old-growth forest. Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |

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| 148 | Wildflower Hike at Kanati Fork Trail | Friday PM | 1:45 PM | 4:45 PM | An exceptional site to see a lot of different species of spring ephemeral wildflowers including painted trillium and Canada mayflower. A 2-mile, moderate walk. DT: 45 min. | None provided. | AA - Rockefeller Memorial at Newfound Gap to Rendezvous |
| 149 | Wildflower Hike at Noah "Bud" Ogle Trail | Friday PM | 1:30 PM | 4:45 PM | Walking through these former homesteads, you'll see a splendid variety of wildflowers and American chestnut tree remnants in the reforested fields. Short, easy walk. DT: 10 min. | None provided. | X - Noah "Bud Ogle" parking area of Cherokee Orchard Road |
| 150 | Wildflower Hike at Porters Creek Trail - Short version | Friday PM | 1:30 PM | 4:45 PM | See abundant wildflowers including painted trillium and many more. Pass old homesteads and a cemetery along this popular trail which leads to an old-growth cove hardwood forest. A 2-3 mile easy walk. DT: 30 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |
| 151 | Wildflower Hike at Ramsey Cascades Trail - Short version | Friday PM | 1:30 PM | 4:45 PM | A 4 to 6-mile round trip (not going all the way to the falls) will allow you to hike among the rich forests of the Ramsey Cascades Trail. You will try to make it at least 1.5-miles in to the large tulip poplars that stand like columns all around the trail. On this trip you'll see giant trees of old growth forests and the rich diversity of wildflowers that inhabit soil held on to these steep slopes by large exposed root networks. DT: 30 min. | None provided. Carpool needed. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |

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| 152 | Escuela Verde Charter School: Looking Beyond Earth to Star-Gaze | Friday Evening | 8:30 PM | 10:30 PM | Experience the natural history of the universe in a truly dark sky and with Richard and Stephen Clements of the Barnard Astronomical Society of Chattanooga. Learn the basics of skywatching, star names, and constellations. Then examine the wonders of the deep sky through a variety of optical instruments. Bring warm clothes but not a flashlight. Bring binoculars if you have them. Very short, easy walk. (Not recommended for children under 10.). DT: Meet at Clingman's Dome Visitors Center. | None provided. | H - Clingmans Dome Visitor Center |
| 153 | Lichens at Night in the Smokies | Friday Evening | 8:00 PM | 10:30 PM | Come explore the fascinating world of lichens at night! Many lichens produce secondary chemicals and metabolites that fluoresce brightly under UV light. Using handheld UV lights to scan tree trunks and rocks we will search for lichens with brilliant colors of yellow, orange, electric blue, and more on this unique lichen night walk. Bring a flashlight, warm clothes and comfortable walking shoes. There will be 4-5 UV lights that may be borrowed but if you have one bring it along. This will be a short, easy walk. | None provided. Carpool needed. | AC - Sugarlands Visitor Center - Bus Parking Lot |

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| 154 | Nighttime Bat Walk in the Twin Creeks Area | Friday Evening | 7:30 PM | 9:30 PM | Follow chiropterologist Gary McCracken and his bat team to learn about bats and listen to their calls in the night. You will learn about the lives of bats, their niches in the ecosystem, and why it is important to preserve them. Short, easy walk. Bring warm clothes and a flashlight (preferably with a red light). DT: 10 min. | None provided. | AG - Twin Creeks Pavilion off Cherokee Orchard Road |
| 155 | Owl Prowl at Mynatt Park | Friday Evening | 9:00 PM | 10:30 PM | Listen and learn about the flying predator of the night. This 2-hour Owl Prowl is guided by Karen LaMere. Bring warm clothes and flashlight (preferably with a red light). Short, easy walk. DT: 15 min. Meet at vending/ bathroom area. | None provided. Carpool needed. | W - Mynatt Park parking area off of Cherokee Orchard Road to begin carpool |
| 156 | Star Gazing at Clingman's Dome | Friday Evening | 8:30 PM | 10:30 PM | Experience the natural history of the universe in a truly dark sky and with Richard and Stephen Clements of the Barnard Astronomical Society of Chattanooga. Learn the basics of skywatching, star names, and constellations. Then examine the wonders of the deep sky through a variety of optical instruments. Bring warm clothes but not a flashlight. Bring binoculars if you have them. Very short, easy walk. (Not recommended for children under 10.). DT: Meet at Clingman's Dome Visitors Center. | None provided. | H - Clingmans Dome Visitor Center |

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| 157 | Wildflower Folklore from Cherokee and Anglo-Appalachian Cultures. | Friday Evening | 7:30 PM | 8:30 PM | Barbara R. Duncan, Ph.D. Education Director at Museum of the Cherokee Indian and Adjunct Professor at University of North Carolina at Asheville. Duncan has a Ph.D. in Folklore and Folklife from the University of Pennsylvania and has worked at the Museum of the Cherokee Indian for twenty-three years. She has written award-winning books on Cherokee history and culture, and is also a poet, singer-songwriter and grandmother. She lives in western North Carolina. | None provided. | C - Arrowmont School of Arts and Crafts |
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Saturday

| Session No. | Session Name | Category | Start Time | End Time | Description | Transportation | Meeting Location (Codes, e.g., AG, correspond to locations on our website map, which contains GPS coordinates to enter into navigation tools, like phones.) |
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| 158 | Big Trees Hike at Albright Grove | Saturday All Day | 8:00 AM | 4:30 PM | Hike to one of the most magnificent groves of large, old-growth trees in the park. Pass wonderful displays of wildflowers and an 1889 cabin made of chestnut. Elevation change: 1,600' ascent. A 6.5-mile, moderate hike. Bring lunch, water, rain gear, and comfortable walking shoes. Similar Programs: None DT: 30min. | Van shuttle provided. | AC - Sugarlands Visitor Center - Bus Parking Lot |

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| 159 | Birding for Wood Warblers of the Smokies | Saturday All Day | 7:30 AM | 1:00 PM | Join birder Keith Watson to study behaviors, habitats, and songs of this often brilliantly colored family of birds as we search low and mid elevations. Bring binoculars, lunch, water, rain gear, and comfortable walking shoes. Short, easy walks. | None provided. Carpool needed. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |
| 160 | Birding on Alum Cave Trail | Saturday All Day | 7:00 AM | 2:00 PM | Follow birders, Mary Feely and Laura Marsh to Alum Cave. Along the way look and listen for early spring warbler migrants including black-throated blue, black-throated green, and possibly Canada and Blackburnian. This trail is great for early blue-headed vireos, and resident Southern Appalachian: black-capped chickadee, red-breasted nuthatch, winter wren. At the cave, we'll look and listen for peregrine falcons which nest in the area. Elevation change 1100'. A 4.6 mile strenuous hike. Bring binoculars, lunch, water, rain gear, and comfortable walking shoes. DT: 35 min. | None provided. | B - Alum Cave Trailhead--8.7 miles south on US 441 from Sugarlands Visitor Center |
| 161 | Fungi, Lichen, and Wildflower Hike at Ramsey Cascades Trail | Saturday All Day | 8:30 AM | 4:30 PM | Join professional mycologists, ecologists, and botanists to discover the rich diversity of wildflowers, fungi, and lichens. An 8-mile strenuous hike. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 30 min. | None provided. Carpool needed. | P - Greenbrier Road-Carpool from first parking lot on the right 200 feet from Route 321 |

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| 162 | Lost Grasslands of the Smokies | Saturday All Day | 9:30 AM | 3:00 PM | This all day fieldtrip will discuss and highlight the grasslands and historically open woodlands of Great Smoky Mountains National Park. The first part of the day will include a hike along the Goldmine Trail to view the Lynn Hollow prescribed burn unit to see old-growth shortleaf pie-oak woodlands that are in the process of being restored to their historical open, grassy condition. Next we will visit the restored meadows at the southwest end of Cades Cove. Finally, we'll stop at a roadside vantage point to discuss high-elevation grass balds. Leaders will highlight plant diversity and incorporate thorough discussions of fire ecology, tree-ring records, native grassland wildlife. DT: 60 min. | None provided. Carpool needed. | E - Cades Cove at Information Kiosk Before Loop Road Entrance |
| 163 | Salamander Foray from Mid to Lower Elevation | Saturday All Day | 10:00 AM | 3:00 PM | Join a team of Tennessee's herpetologists on an exploration tour of salamander species diversity at different elevations in the Smokies. Prepare to get wet and bring a hand lens. Short, easy walks en route. | None provided. Carpool needed. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |
| 164 | Wildflower and Wildfire Walk at the Chimney Tops | Saturday All Day | 8:00 AM | 4:30 PM | The November 2016 Chimney Tops 2 Fire originated on the north peak of Chimney Tops, spreading northward into the Sugarlands Valley over the next several days. Follow the trail as it ascends through an unburned northern hardwood forest with a splendid display of spring wildflowers, ending at an observation platform 1/4-mile from the peaks. Elevation gain 1,400 ft. Strenuous, 3.5-mile walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |

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| 165 | Wildflower Hike at Gabe's Mountain Trail to Hen Wallow Falls | Saturday All Day | 9:00 AM | 4:30 PM | An 8-mile, moderate, one-way hike passing through many wildflower displays and old-growth forests from Maddron Bald Trail to Cosby Picnic Area with a visit to 90' Hen Wallow Falls. Elevation change: 1,400'. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 60 min | Van shuttle provided. | J - Cosby Picnic Area--Off TN Rt. 32 hiker parking lot on left to begin van shuttle to Maddron Bald Trail--Van |
| 166 | Wildflower Hike from Sweat Heifer Trail to Kephart Prong | Saturday All Day | 8:45 AM | 5:30 PM | PHYSICALLY CHALLENGING. After a short 1.7-mile uphill climb, descend from early to late spring wildflower displays as you pass through different vegetation types and rich cove forests. Elevation change: 400' ascent and 2,650' descent. In total, this is a 7.5-mile, strenuous hike. Bring lunch, water, rain gear, and comfortable walking shoes. DT: 45 min. | None provided. Car shuttle needed. | AA - Rockefeller Memorial at Newfound Gap to begin car shuttle |
| 167 | Wildflower Hike from Thomas Divide to Kanati Fork | Saturday All Day | 8:45 AM | 5:30 PM | Walk along Thomas Divide then to a steadily descending route, with vistas of the surrounding ridges. The trail passes through a grove of chestnut tree remnants and hemlock and into a magnificent cove hardwood forest. We'll see many spring wildflowers, including painted trillium, Canada mayflower, and umbrella leaf. Bring lunch, water, rain gear, and comfortable walking shoes. A 5-mile, strenuous hike. Elevation change: 2,300 ft. DT: 45 min. | None provided. Car shuttle needed. | AA - Rockefeller Memorial at Newfound Gap to begin car shuttle |

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| 168 | Birding from Sugarlands to the Cove Hardwood Nature Trail | Saturday AM | 7:30 AM | 11:30 AM | Jay Sturner leads a search for spring migrants and Appalachian specialties at Sugarlands Visitor Center, and the blackthroated blue warbler at Cove Hardwood Nature Trail. Bring binoculars and rain gear. Short, easy walks. | None provided. Carpool needed. | G - City Parking Lot on Regan Drive By Gatlinburg Fire Station |
| 169 | Birding on School House Gap Trail | Saturday AM | 7:30 AM | 11:30 AM | Scan the trees along a stream for warblers, vireos and the scarlet tanager with Roger Hedge, ecologist with Indiana Natural Heritage Program. Bring binoculars, water, rain gear, and comfortable walking shoes. DT: 45 min. | None provided. Carpool needed. | AD - Townsend "Y" on Little River Road to Begin Carpool |
| 170 | Black Bear and Wild Hogs in the Smokies | Saturday AM | 8:15 AM | 11:30 AM | Walk with David Whitehead, retired Tennessee Wildlife Resources Agency Manager, as he describes the life history, tracking signs, human impacts, and environmental issues of black bears and wild hogs in the southern Appalachians and GSMNP. A 2-3 mile, easy walk. DT: 30 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |

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|-----|--|-------------|---------|----------|---|----------------|---|
| 171 | Citizen Science Training for Beginners - you can make a difference! | Saturday AM | 8:15 AM | 11:45 AM | Tennessee and North Carolina are home to approximately 1.5 million plant specimens. To make a permanent record of a plant species' location, a specimen is collected, pressed, mounted on a paper sheet, and stored in a herbarium. To make each plant's information available globally, a local and international digitizing effort is underway. This program introduces you to this National Science Foundation-sponsored effort to digitize these specimens to make available online. Come and learn about these specimens and how to properly handle them, become trained on their digitization (anyone can do it!), and contribute to this massive effort. DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |
| 172 | Exotic Plants and Wildflower Walk on the Gatlinburg Trail | Saturday AM | 8:30 AM | 11:30 AM | Learn to identify exotic plants and about their negative impact on the native flora. A 2-3 mile, easy walk. DT: 15 min. | None provided. | Z - End of Park Headquarters Road-- Outside of gated area |
| 173 | Moss Walk Along Injun Creek Trail in Greenbrier | Saturday AM | 8:30 AM | 11:30 AM | Discover the elegant forms of mosses, liverworts, and hornworts and ways to recognize them. Bring a hand lens. A 3-mile, easy walk. DT: 30 min. | None provided. | M - Greenbrier Ranger Station |
| 174 | Photography Workshop | Saturday AM | 8:15 AM | 11:30 AM | This program starts with a short visual presentation, then goes outdoors for hands-on instruction in composition and photo techniques by authors Jack Carman (Wildflowers of Tennessee) and Robert Hutson (Great Smoky Mountain Wildflowers: When and Where to Find Them). Bring a camera and tripod. A 2-mile, easy walk. DT: 15 min. | None provided. | AB - Sugarlands Visitor Center Training Room - park in 3rd lot on right |

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| 175 | Them Crazy Bones | Saturday AM | 9:00 AM | 11:45 AM | What's the difference between antlers and horns? Did you know moles have a fake thumb? Can you tell what an animal eats based on its teeth? Who has a bigger head, a cow or a pig? Explore vertebrate biology in a new way by examining the skulls and skeletons of native and domesticated fauna. Look under a turtle's shell, see what it takes for a bird to fly, pet a vulture; all without the risk of getting bitten or sprayed. Come discover the exciting world of osteology with biologist Chris Brown's bone collection. DT: 20 min. | None provided. | AH - UT Field Station at Greenbrier |
| 176 | Tour the GSMNP Natural History Museum at Twin Creeks | Saturday AM | 9:30 AM | 11:00 AM | Come tour the natural history collections that have been used to document the biodiversity of the GSMNP since its beginnings. In this "behind locked doors" tour of the GSMNP Natural History Museum, you will see specimens of mammals, birds, fungi, insects, and plants and learn about their importance to the Park! DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |
| 177 | Wildcrafting Walk in the Smokies | Saturday AM | 8:00 AM | 11:30 AM | Learn about the edible, medicinal, and otherwise useful plants of our area with Ila Hatter, Wanda DeWaard, and Brittney Hughes. Short, easy walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 178 | Wildflower Hike at Chestnut Top Trail | Saturday AM | 8:45 AM | 11:45 AM | One of the grandest wildflower displays in the Smokies. A 2-mile, moderate walk. DT: 45 min. | None provided. | AD - Townsend "Y" on Little River Road |
| 179 | Wildflower Hike at Cove Hardwood Nature Trail | Saturday AM | 8:30 AM | 11:30 AM | Observe abundant wildflowers, including dwarf ginseng and fringed phacelia, in this old-growth forest. Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |

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| 180 | Wildflower Hike at Cucumber Gap Trail - Short version | Saturday AM | 8:30 AM | 11:30 AM | Walk through a secondary cove hardwood forest and enjoy the rich diversity of wildflowers. This trip ascends toward Cucumber Gap, then returns. A 2-mile, moderate walk. DT: 30 min. | None provided. | R - Jakes Creek Trailhead past Elkmont Campground |
| 181 | Wildflower Hike at Huskey Gap Trail | Saturday AM | 8:00 AM | 11:45 AM | Walk the old trail that connected the settlers of Sugarlands Valley and Little River as you view the wildflower displays and homesites along the way. Elevation change: 1,000'. A 2-mile, moderate walk. | Vans provided | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 182 | Wildflower Hike at Little River Above Elkmont | Saturday AM | 8:30 AM | 11:45 AM | Walk up this former logging railroad bed and discover the tenacity of nature in recovering from the massive logging operations which cleared this valley early in the 20th century. Many species of wildflowers, ferns, and trees dot the landscape and are easily observable. Elevation change: 200' ascent. A 2-mile, easy walk. DT: 30 min. | None provided. | S - Little River Trailhead past Elkmont Campground |
| 183 | Wildflower Hike at Noah "Bud" Ogle Trail | Saturday AM | 8:15 AM | 11:45 AM | Walking through these former homesteads, you'll see a splendid variety of wildflowers and American chestnut tree remnants in the reforested fields. Short, easy walk. DT: 10 min. | None provided. | X - Noah "Bud Ogle" parking area of Cherokee Orchard Road |
| 184 | Wildflower Hike at Porters Creek Trail - Short version | Saturday AM | 8:30 AM | 11:45 AM | See abundant wildflowers including painted trillium and many more. Pass old homesteads and a cemetery along this popular trail which leads to an old-growth cove hardwood forest. A 2-3 mile easy walk. DT: 30 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |

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| 185 | Yoga Class at Walker Sisters Cabin | Saturday AM | 8:45 AM | 11:45 AM | Join Yoga instructor Kelly Daniels on a 2-mile journey to the Walker Sisters Cabin on the Metcalf Bottoms Trail to exercise and relax in this serene environment before hiking 2-miles back. Bring an exercise mat or large towel and water. A 4-mile moderate hike. DT: 40 min. | None provided. | U - Metcalf Bottoms Picnic Area off Little River Road |
| 186 | Aquatic Insect Diversity Walk at Twin Creeks | Saturday PM | 1:15 PM | 4:00 PM | Enjoy short, walks on different order streams with UT Chattanooga entomologist Stelios Chatzimanolis. Learn to collect and identify a variety of insects in pristine streams. Short, easy walk. DT: 10 min. | None provided. | AG - Twin Creeks Gravel Parking Lot off of Cherokee Orchard Road |
| 187 | Citizen Science Training for Beginners - you can make a difference! | Saturday PM | 1:15 PM | 4:45 PM | Tennessee and North Carolina are home to approximately 1.5 million plant specimens. To make a permanent record of a plant species' location, a specimen is collected, pressed, mounted on a paper sheet, and stored in a herbarium. To make each plant's information available globally, a local and international digitizing effort is underway. This program introduces you to this National Science Foundation-sponsored effort to digitize these specimens to make available online. Come and learn about these specimens and how to properly handle them, become trained on their digitization (anyone can do it!), and contribute to this massive effort. DT: 10 min. | None provided. | AF - Twin Creeks Science and Education Center off Cherokee Orchard Road |

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| 188 | Fern Walk at Little River above Elkmont | Saturday PM | 1:30 PM | 4:30 PM | Have you ever seen an adder's tongue or sang pointer? Come see a variety of the park's more common ferns and fern allies. Bring a hand lens. A 2-mile, easy walk. DT: 30 min. | None provided. | S - Little River Trailhead past Elkmont Campground |
| 189 | Millipedes, centipedes, and friends on the Gatlinburg Trail | Saturday PM | 1:15 PM | 4:30 PM | Join Derek Hennen, Entomology PhD student at Virginia Tech, on a hike through the undergrowth in search of anything with lots of legs. You'll see astounding millipedes, beautiful insects, and anything else that likes to hide under leaves and logs. The biodiversity of the leaf litter is an unknown frontier sure to surprise and astound you. This one will be fun for all ages! A 2.5 mile, easy trail. | None provided. | Z - End of Park Headquarters Road-- Outside of gated area |
| 190 | Moss Walk Along Injun Creek Trail in Greenbrier | Saturday PM | 1:30 PM | 4:30 PM | Discover the elegant forms of moss, liverwort, and hornwort and ways to recognize them. Bring a hand lens. A 3-mile, easy walk. DT: 30 min. | None provided. | M - Greenbrier Ranger Station |
| 191 | Parasites! An Important Component of Our Hidden Biodiversity | Saturday PM | 1:30 PM | 4:30 PM | Parasite Ecologist Ricky Fiorillo from Georgia-Gwinnett College will discuss the natural history and ecology of a too often unappreciated component of our hidden biodiversity while guiding you through a hands-on dissection searching for worm parasites in a natural host. Each participant will examine the heart, liver, and digestive tract of common freshwater fish species for these fascinating organisms. See for yourself just how interesting, and beautiful parasites can be! And, why they are an important component of our ecosystem. (Minimum age to perform dissections is High School, but anyone can watch!) DT: 20 min. | None provided. | AH - UT Field Station at Greenbrier |

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| 192 | Wildflower Hike at Chestnut Top Trail | Saturday PM | 1:30 PM | 4:30 PM | One of the grandest wildflower displays in the Smokies. A 2-mile, moderate walk. DT: 45 min. | None provided. | AD - Townsend "Y" on Littler River Road |
| 193 | Wildflower Hike at Cove Hardwood Nature Trail | Saturday PM | 1:30 PM | 4:30 PM | Observe abundant wildflowers, including dwarf ginseng and fringed phacelia, in this old-growth forest. Short, easy walk. DT: 25 min. | None provided. | F - Chimneys Picnic Area |
| 194 | Wildflower Hike at Kanati Fork Trail | Saturday PM | 1:45 PM | 4:45 PM | An exceptional site to see a lot of different species of spring ephemeral wildflowers including painted trillium and Canada mayflower. A 2-mile, moderate walk. DT: 45 min. | None provided. | AA - Rockefeller Memorial at Newfound Gap to Rendezvous |
| 195 | Wildflower Hike at Old Settlers Trail - Short version | Saturday PM | 1:30 PM | 4:45 PM | Walking through these former homesteads, discover the many wildflowers now growing in the abandoned fields and among the stone chimneys and fences. Elevation change: 200' ascent. A 2 mile, moderate walk. Limit 25 people. DT: 30 min. Similar Programs: 22, 79 | None provided. Carpool needed. | Q - Greenbrier Road-Carpool from picnic area, 2.5 miles from Route 321 |
| 196 | Wildflower Hike at Porters Creek Trail - Short version | Saturday PM | 1:30 PM | 4:45 PM | See abundant wildflowers including painted trillium and many more. Pass old homesteads and a cemetery along this popular trail which leads to an old-growth cove hardwood forest. A 2-3 mile easy walk. DT: 30 min. | None provided. | N - Greenbrier Road Terminus at Porters Creek Trailhead--4.5 Miles from Route 321 |
| 197 | Wildflower Hike on the Appalachian Trail from Indian Gap to Newfound Gap | Saturday PM | 1:30 PM | 4:45 PM | Pass from the closed canopy of the old growth Spruce-Fir forest into the open canopy of a pristine Beech Gap forest where early spring ephemeral wildflowers abound because of protections afforded from feral hog exclosures. A 1.5-mile moderate walk. Elevation change 500'. DT: 45 min. | None provided. Carpool needed. | AA - Rockefeller Memorial at Newfound Gap to begin car shuttle |

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| 198 | Bugs at Light at Ash Hopper Branch | Saturday Evening | 8:30 PM | 10:30 PM | If you want to see some really cool insects, join University of Tennessee at Chattanooga entomologist Stylianos Chatzimanolis (Dr. C) as he attracts nocturnal moths, beetles and a wide diversity of other insects using a black light. Dress warmly, bring a headlamp or flashlight with a red cover, and hand lens. No trail walking. | None provided. | AC - Sugarlands Visitor Center - Bus Parking Lot |
| 199 | Star Gazing at Clingman's Dome | Saturday Evening | 8:30 PM | 10:30 PM | Experience the natural history of the universe in a truly dark sky and with Richard and Stephen Clements of the Barnard Astronomical Society of Chattanooga. Learn the basics of skywatching, star names, and constellations. Then examine the wonders of the deep sky through a variety of optical instruments. Bring warm clothes but not a flashlight. Bring binoculars if you have them. Very short, easy walk. (Not recommended for children under 10.). DT: __. Meet at Clingman's Dome Visitors Center. | None provided. | H - Clingmans Dome Visitor Center |