



The NATURALISTS' CLUB

NEWSLETTER

Springfield Science Museum at the Quadrangle, Springfield, Massachusetts

January to March **CALENDAR of EVENTS**

January

- Wednesday 18 JANUARY MEETING: Inspiring a Love of Natural History
Collections Through Course-based Undergraduate Research Experiences
- Saturday 21 Wildlife Tracking, *Russell*
- Saturday 21 Nature in Winter, *Somers, Connecticut*
- Saturday 28 Lawrence Swamp, *Amherst*

Groundhog Day:
February 2



February

- Saturday 11 Exploring Nature's Winter World, *Belchertown*
- Saturday 11 Ludlow Reservoir, *Ludlow*
- Wednesday 15 FEBRUARY MEETING: Photographic Explorations in Nature
- Saturday 18 Nature in Winter in Mittineague Park, *West Springfield*
- Saturday 25 Pictures and Hiking at Bear Hole, *West Springfield*

March

- Sunday 5 How Sweet It Is, *West Granville*
- Saturday 11 Nature Journaling, *Westfield*
- Wednesday 15 MARCH MEETING: Paddle for Water: Tales of a "Little" Canoe Trip
- Saturday 18 Bob's Way, *Monterey*
- Saturday 25 Searching for Gaywings at Hurds Lake, *Somers, Connecticut*

*O, wind, if winter comes, can spring be far behind?
~ Percy Shelley*

NATURALIST'S CORNER

Nowhere Left to Go

I have just finished a book that really hit my naturalist mind, and I would like to share some of the thoughts with you. The book is *Nowhere Left to Go - How Climate Change is Driving Species to the Ends of the Earth* by Benjamin Von Brackel. As Earth warms, plants and animals that are suited to certain locations are fleeing to cooler areas to survive. This usually involves traveling to latitudes farther away from the equator, or to higher altitudes. Both of these strategies ultimately have dead ends. Of course this has happened many times as ice ages have come and gone, but this time it is humans that have created the problem. And it is humans that often stand in the way of these migrations.

Is there already evidence that plants and animals are fleeing to cooler locations? As the ocean warms, fish are moving north in our part of the world. As water warms, it carries less oxygen, so fish are fleeing in search of oxygen. This has affected the fishing industry around Iceland and in the North Sea. People have set up political boundaries where each country has the right to fish, but many species of fish have moved out of those boundaries. Life in the ocean is moving toward the poles at 45 miles per decade — roughly 16 feet per day. Fishing fleets that historically fished in North Carolina and Virginia are now having to travel up to New Jersey.

As species move, they encounter new problems. Their prey may not be available in their new region, and they become subject to predation. In the past, migrations typically occurred slowly, allowing time for evolutionary responses. Change happens all the time on our planet. Millions of years ago, Springfield, Massachusetts was on the equator. Just 10,000 years ago, there was a mile of ice over our city. The transition to our present latitude and climate occurred slowly. Contemporary, anthropogenic climate change is occurring at a dramatically faster rate.

Can you see this change yourself? Do you remember, when you were younger, celebrating the first robin returning in the spring? Now I see several that stay all winter. I used to hear the fish crow only when I was visiting in Georgia, but the other day there was a flock in a grocery store parking lot here.

Some initiatives have sought to save species imperiled by climate change by setting aside preserves. These preserves are often islands in a sea of civilization. Instead of saving endangered species, though, these efforts often effectively imprison animals that are trying to migrate to cooler environments but are unable to travel through areas of high human activity. In his book, Von Brackel proposes that National Parks take up a new mission: providing safe corridors of escape for wildlife migrating in response to climate change.

Climate change is also threatening the well-being of our own species by expanding the ranges of disease vectors. Yellow fever, a sometimes-fatal virus transmitted by mosquitoes, has historically been a risk in tropical areas. Now it's arrived in Tennessee and is continuing to spread north at a rate of 150 miles per year. Many newly identified diseases, including Covid, have resulted from humans moving into wild areas where a virus has been able to jump from a host species into humans. With climate change, we no longer have to go out into the natural world to encounter novel risks — the natural world is coming to us.

Animals are not the only forms of life needing to migrate. The University of Massachusetts estimates that, by 2100, sugar maple syrup production in New England will drop by half. Canada, rather than Vermont, will become the center of syrup production. Trees at the southern end of the range of growth are dying, and populations are expanding at the northern end. The problem is, these range shifts are not keeping up with climate change, so we are experiencing a net loss of trees.

We have all heard about the plight of the Polar Bear. The ice that it needs in the Arctic is melting. Meanwhile the Grizzly Bear is moving north. Recently, a hunter killed a bear that was neither a polar bear nor a grizzly. It had a white coat with brown flecks and a hump on its back. DNA testing revealed it was a hybrid of the two species. Polar bears may well go extinct, but their DNA will be carried on in grizzly bears just as we carry Neanderthal DNA from our extinct relatives.

I see this book as a wake-up call. It is difficult for humans to see small, ongoing changes — we are much more skilled at identifying and running from sudden, large changes. This has been compared to the frog in the saucepan: If you place a frog into a pot of hot water, it will suddenly jump out. If you put a frog in a pot of cool water, then very gradually heat it, the frog will just stay there until it cooks to death. In human terms, if a jet crashes with 300 people aboard it makes the news headlines. Smoking-related illness accounts for 1,300 deaths per day, but that statistic is absent from the daily news.

(continues on page 3)

*To appreciate the beauty of a snowflake, it is
necessary to stand out in the cold.*

~ Aristotle

(continued from page 3)

There have been five great extinctions of life on this planet. From the available fossil evidence, we can conclude that each of them must have been horrendous. We are now in the midst of the sixth great extinction. This one is caused directly by humans. Climate change seems to be happening slowly in the span of our lifetime, but the rate of change is faster than in other great extinctions.

If we can each do something, however small, to stem climate change, we will save ourselves and so many other living things with which we share this planet. We must pay attention to these small changes and jump out of the pot before we cook ourselves to death.

~Sonya Vickers



Inspiring a Love of Natural History Collections Through Course-based Undergraduate Research Experiences

Wednesday, January 18, starting at 7 p.m.
Tolman Auditorium, Springfield Science Museum
Presenter: Dr. Kathryn Weglarz

Engaging undergraduate students in use of natural history collections helps foster a love of these invaluable resources. Incorporating course-based research experiences (CUREs) into the curriculum can help ensure that all students have equal access to natural history collections. January's presentation will focus on efforts at Westfield State University to integrate CUREs into every biology student's undergraduate experience.

About the Speaker: Dr. Kathryn Weglarz is Assistant Professor of Biology at Westfield State University. She completed her Ph.D. at Utah State University, where she studied adelgids and their symbionts. Her postdoctoral work, in collaboration with the USDA Forest Service, focused on aquatic macroinvertebrates. Currently, Dr. Weglarz studies interactions among species using molecular, computational, and field-based approaches. She has received support from the National Science Foundation and Westfield's Presidential Innovation Fund. At Westfield State, Dr. Weglarz teaches courses in Environmental Biology and Parasitology and mentors research students.

Wildlife Tracking, *Russell*

Saturday, January 21, starting at 10 a.m.
Please register for either session: 9 a.m. to noon (adults and families) **or** 1 to 4 p.m. (adults only)
Leader: Jim Pelletier
Registration: Please contact Dawne Pierce-Gamble at piersgamble.dawne8@gmail.com,
Meeting Place: Noble View Outdoor Center, 635 South Quarter Road

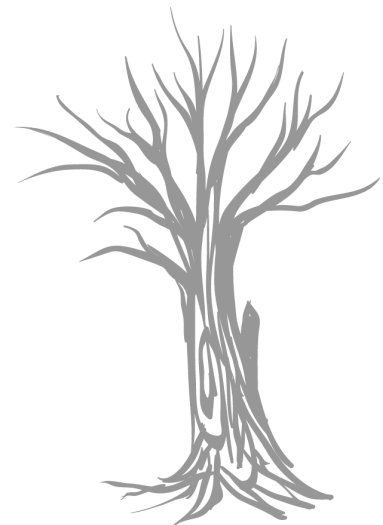
Winter reveals wildlife habits more vividly than any other season. Footprints, gait patterns, and other signs reveal not only the inhabitants of the forest, but wildlife behaviors we seldom get to observe. Come learn the art of tracking and gain a new perspective on wildlife foraging practices. Jim will share tips on wildlife identification and where to look for activity.

Jim Pelletier is Appalachian Mountain Club's Natural Heritage Coordinator, where he works to perform wildlife transects, invasive species monitoring and management, open area maintenance, and special use permit coordination. He is a member of the Berkshire Environmental Action Team's Wildlife Trackers Club and Certified Track and Sign Specialist by Cybertracker North America. This program is offered by AMC Western Massachusetts Chapter's Family Education and Outings Committee

Nature in Winter, *Somers, Connecticut*

Saturday, January 21, starting at 10 a.m.
Leaders: Dave and Suzy Gallup
Registration: Please call to register and for directions (413-525-4697)

Join us for a hike on a trail system maintained by the Northern Connecticut Land Trust. Whitaker Woods is a unique, 266-acre property in the center of Somers. It is pristinely maintained. The land is characterized by a variety of terrains with the network of trails taking you past stonewalls, over brooks, through stands of mature white pine and with many other species of trees in a forest with young to old-growth sections. You will enjoy the diversity of the landscape! Dress for the weather and wear sturdy hiking boots. It is an easy to moderate approximately 3-mile loop hike. Bring a snack or lunch and a warm beverage. Rain or bad weather cancels.



Winter is not a season, it's a celebration.
~ Anamika Mishra

Lawrence Swamp, Amherst

Saturday, January 28, from 10 a.m. to 1 p.m.

Leaders: Tom and Nancy Condon (413-297-0778)

Registration: call or email (nancy@paddleforwater.net)

Meeting Place: Norwottuck Rail Trail parking area on Station Road (From South East Street in South Amherst- about 2 miles south of Route 9 – turn onto Station Road and drive east for under a mile)

The Town of Amherst preserves Lawrence Swamp conservation area as a water supply. We have a couple of hike options, depending on trail conditions. Most of the area is wooded, with only some swampy sections, but much of it could be wet. There are well-placed bog bridges over the longer swampy reaches, courtesy of the town. However, the trails should be frozen this time of year, making our hiking pleasant and mosquito-free. Our preferred hikes will include the Robert Frost Trail and Beaver Trail, which makes a mile loop exploring fields, forests, streams, and wetlands. Our second hike will be along a forested trail looping around to join the rail trail back to our cars. It, too, is perhaps a mile in length. We also can hike along the raised rail trail, a lovely tree-lined corridor giving views of the swamp. Dress for the weather. Bring ice grippers for your boots. We will find a restaurant to stop at for lunch or hot chocolate on the way home. Registration required.

Exploring Nature's Winter World, Belchertown

Saturday, February 11, starting at 11 a.m.

Leaders: Dave and Suzy Gallup (413-525-4697)

Please call to register and for meeting place.

Join Dave and Suzy for a tracking expedition into the winter woods. More than just identifying tracks, tracking involves learning about what made them and what they were doing as they moved through the winter forest. We will be hiking a two-mile loop hike in the Quabbin Park area. Bring snacks and a hot drink. Dress for conditions.

Ludlow Reservoir, Ludlow

Saturday February 11, starting at 10 a.m.

Leader: Sonya Vickers

Registration: Please call Sonya (413-218-7742) to register

Meeting place: Big Y shopping plaza in Ludlow. From the Ludlow exit on the Mass Pike turn left to the Big Y parking Lot on Rt 21. Turn right as you enter the lot and park behind Berkshire Bank.

There is a paved trail on the Ludlow Reservoir which, believe it or not, is plowed, so it is accessible even in winter. This makes a perfect place to walk through the forest along the lake side. The walk is level and is an in-and-out route. The total length is 4.1 miles, but we can turn around at any time. It is always fun to stop at Randall's Farms after this hike.



Photographic Explorations in Nature

Wednesday, Feb 15, starting at 7 p.m.

Tolman Auditorium, Springfield Science Museum

Presenter: Kevin Kopchynski

In this program we will journey into nature with a camera, seeing how photography can take us deeper, continually giving us new experiences in the places we visit regularly, as well as reminding us of the distant places we visit only occasionally. There will be no details about the technical aspects of photography here; instead, we'll learn more about the way of seeing that can come from spending time in nature with a camera.

About the Speaker: Kevin Kopchynski is a nature/science educator. He has taught geology and geologic history at UMass Extension School and has offered programs at schools and libraries. An avid photographer, Kevin is also a long-time Naturalists' Club member.



Nature in Winter in Mittineague Park, West Springfield

Saturday, February 18, from 10 a.m. to noon

Leader: Dietrich Schlobohm (413-788-4125)

Registration: Registration is required. Limited to 15 people

Meeting Place: Meet at the main entrance to Mittineague Park on Rte 20 across from Lancaster Ave.

Winter. A time when nature supposedly slows down and creatures large and small seek shelter from the harsh elements. While many animals are less visible, winter provides us with a unique opportunity to study wildlife from a different perspective. Dietrich Schlobohm, an environmental historian, will lead us on a "journey of winter discovery" — especially if Mother Nature blesses us with a blanket of snow. Depending on weather conditions and the area we visit, there is the possibility of observing a wide variety of animal life, including deer, beaver, fox, and coyote. Our observations will most probably not involve actual sightings, but instead the tracks and other signs these animals leave behind as they engage in their daily struggle for survival. Be sure to dress for the weather, including good footwear. Bring water and a snack.

Pictures and Hiking at Bear Hole, West Springfield

Saturday, February 25, in the morning

Leader: Carole Dupont

Registration: Please contact Carole (carole0136@gmail.com or 413-896-0124) for meeting place and time.

We will hike along the ridge overlooking Bear Hole Reservoir and Paucatuck Brook, pausing to enjoy the spectacular views. At the Paucatuck Falls Bridges, we will witness the winter snowmelt cascading down the falls.

Around 1890, West Springfield businessman M.L. Tourtelotte and partners built the fabulous Bear Hole Family Resort near Massasoit Spring. We will view images of visitors enjoying summer fun and a menu with 1890 prices. Photos of families enjoying their visit to the 3-legged bear in his den and to Massasoit Spring to purchase mineral water will provide a glimpse of what people did for summer fun. We will relive the history of Bear Hole. In addition to the pictures, we will see the physical remains of the bear's den and the resort.

A few short, steep declines call for hiking boots and, possibly, for poles. Bring water, snacks, and dress for the weather.

How Sweet It Is! Sugaring Time at Maple Corner Farm, West Granville

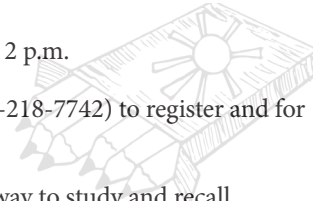
Sunday, March 5, starting at 11 a.m.
 Leaders: Dave and Suzy Gallup.
 Registration: Please call if you plan to come (413-525-4697)
 Meeting Place: Westfield State University Commuter Parking Lot

It is once again the time of the year when we visit Maple Corner Farm in West Granville. This visit has become a Naturalists' Club tradition! The Ripley Farm has been in the family for over one hundred years. Enjoy breakfast or brunch with maple syrup from the Farm's maple forest. After eating, we will learn about the process and history of maple syrup production. Then, conditions permitting, we will hike to the maple sugarbush (about one-mile round trip) to see how the sap is harvested. For ages 8 and up. Bad weather cancels.

Nature Journaling, Westfield

Saturday March 11, from 10 a.m. to 2 p.m.
 Leader: Sonya Vickers
 Registration: Please call Sonya (413-218-7742) to register and for directions to our meeting room.

Keeping a nature journal is a great way to study and recall observations in the natural world. Sonya has been keeping a nature journal for more than 20 years. She has recorded things readily visible — birds, lichens, bugs, moss, flowers — and things accessible only through a microscope. It's not necessary to be an artist to keep a nature journal, and you don't even need to know how to draw. You will find that observing something carefully enough to sketch it will reveal things unnoticed in casual observation. We will use colored pencils. Instead of coloring-book style approaches, though, we will apply a simple technique that artists use. If you have some colored pencils and a small journal with blank, unlined pages, bring them along. Pencils and paper will be available for those who need them. Sometimes, an image taken using a cell phone or point-and-shoot camera can help with visualizing a three-dimensional object. Bring lunch.



Paddle for Water: Tales of a "Little" Canoe Trip

Wednesday, March 15, starting at 7 p.m.
 Tolman Auditorium, Springfield Science Museum
 Presenter: Nancy DeWitte Condon



How would you like to paddle across the country with Nancy and Tom Condon? You can do it right from Tolman Auditorium. This program shares adventures and stories from each of the nine rivers Nancy and Tom took to paddle across the U.S. Copies of Nancy's Paddle for Water book will be available for sale and signing. You can also purchase PFW from Amazon.

Nancy DeWitte Condon has been a member of The Naturalists' Club for nearly 30 years. Nancy administers the Student Environmental Education Classroom and volunteers with the Appalachian Mountain Club. She is the Visitor Services Supervisor at Holyoke Heritage State Park, connecting urban dwellers with nature and Holyoke's heritage. This cross-country canoe trip reinforced her calling to be an environmental educator.

Bob's Way, Monterey

Saturday, March 18, from 10 a.m. to 2 p.m.
 Leaders: Tom and Nancy Condon
 Registration: Please contact (413-297-0778 or nancy@paddleforwater.net)
 Meeting Place: At the trailhead on Route 23, just west of the Otis/Monterey town line.

Bob's Way is a trail maintained by the Berkshire Natural Resources Council. It is named for N. Robert Thieriot, a Californian who moved to Monterey in the late 1970s after a wildfire destroyed his farm in California. Thieriot was a long-time conservationist who started the Sonoma Land Trust in California and the Monterey Preservation Land Trust here in Massachusetts. He has donated or preserved more than 4500 acres in the Berkshires.

Today's trail will cover approximately 2.5 miles, with gentle climbs over two small ridges; we will select among several routes through hardwood forests and wetlands. The area promises outstanding views of the Berkshires and opportunities to reflect on the lives of early residents of these hills. Dress for the weather. Bring ice grippers for your boots. Bring a snack and/or lunch.

Searching for Gaywings at Hurds Lake, Somers, Connecticut

Saturday, March 25, in the morning
 Leader: Carole Dupont
 Registration: Please contact Carole (carole0136@gmail.com or 413-896-0124 for meeting place and time.

Spring is in the air; it's time for our annual walk around Hurds Lake. Camp Aya Po is located at the base of Perkins Mountain on the shores of peaceful Hurds Lake, which was known as Lake Nissaski in the old camp days. We will walk around the lake and delight in the treasures of spring as we look for early wildflowers peeking out through the lifeless leftovers of winter. We also hope to enjoy seeing large patches of fringed milkwort (*Polygala*), also known as gaywings for its brightly colored winged pinkish flowers resembling a cluster of small birds taking to flight. A stop to enjoy ice cream or lunch after the hike is also on our list. Bring along water, snacks and dress for the weather. Binoculars and poles are encouraged.

Where there is an open mind, there will always be a frontier.
 ~ Charles F. Kettering

Meeting Recaps

October Naturalists' Club meeting: History and Flora of Springfield's Forest Park

Attendance: 30+

Speaker: Dave Lovejoy

The Club secretary was faced with an unusual problem at the October meeting since he needed to write an account of a presentation given by himself. After introducing herself as Dave Gallup, Nancy Condon noted that Dave Lovejoy didn't really need an introduction so she did not provide one, but Dave spoke anyway. What he said shall remain a mystery except to those in attendance, but anyone who needs a clue about the presentation can read the Club-sponsored book on the flora and history of Forest Park.

November Naturalists' Club meeting: The French Alps & Beyond

Attendance: 37

Speaker: Tom Condon

Tom Condon reported on his summer trip to hike the 100-mile circuit around western Europe's highest peak, known as the Tour de Mont Blanc. This hike, one of Europe's most popular, circles the peak and passes through Switzerland, France, and Italy, mostly in the subalpine zone at about 2000 meters elevation. Above this is the alpine zone, reached by the edges of the over 70 glaciers on the Mont Blanc massif. Not surprisingly, climate change is decreasing the extent of these glaciers, especially on the south-facing Italian side. After the hike, Tom took a side trip to the Lascaux caves (the painted caves), adorned with hundreds of paintings made by early humans, now referred to as Magdalenians, 17,000 years ago and earlier. The original caves have been closed since 1963 to protect the artwork at this UNESCO World Heritage site, but replicas have been built to showcase the prehistoric art, much of which represents large animals formerly native to the area.

December Naturalists' Club meeting: Holiday Meeting

Attendance – 30+

Speakers: The Sensational Six

As usual, Nancy Condon arranged the program and, since the meeting occurred on the solstice, read appropriate seasonal poetry in between some of the presentations. Sonya Vickers began with "A Journaling We Will Go" describing her 25 years of writing and drawing both small and large biological things including the message that learning by sketching has certainly worked for her. Terry Weiner presented "A Week at a Provincetown Dune Shack", describing her stay in a rented cabin on the dunes at the end of September, which she called primitive camping in an indoor setting. Greg Siska took us to Alberta's Icefields Parkway on a covid-delayed trip through the Provincial Parks of Jasper and Banff with images of glaciers, waterfalls and a dark skies preserve. Doris Dittmer presented "Springtime in Yosemite", showing Hetch Hetchy Dam, high waterfalls, Half Dome, El Capitan and the Mariposa Grove.

At this point, the secretary's note pad was nearly full, so it was fortunate that Tom Condon's "Aerial Russell" and Kevin Kopchynski's "Nature's Highlights -2022" were videos without dialogue, providing a pleasant end to the evening's holiday program.

~Recaps by Dave Lovejoy



Events Sponsored by MassAudubon

Laughing Brook Wildlife Sanctuary is at 789 Main St., Hampden. For information on pricing and registration, please visit massaudubon.org

Tracking Animal Signs at Laughing Brook

Saturdays, January 21 and February 18, from 10 a.m. to 11:30 a.m.

Take a family hike while looking for tracks and signs of wildlife. This program is suitable for both adults and children 5 and up. Cost: \$6 for MassAudubon members; \$8 for nonmembers.

Hometown Habitats: Forests, Online

Thursday, February 9, from 7 p.m. to 8 p.m.

Leader: Doug Lowry, MassAudubon Adult Learning Specialist

What can the composition of tree species tell us about a forest? In Massachusetts, you can find forests dominated by large oaks and hickories, northern hardwoods, pitch pines and scrub oaks, and more. We'll explore the value of carbon sequestering in mature and forests, and compile a bucket list of locations to visit this year.

Spring Flower Shows

Many flower shows are starting up again this year! At press time, some dates were unavailable. Please check online for updates.

The Amherst Orchid Society Annual Show and Sale, Northampton

Typically, the third weekend in February.

<https://www.amherstorchidsociety.org>

Mount Holyoke Annual Spring Flower Show, South Hadley

Typically starts the first Saturday of March.

https://www.mtholyoke.edu/botanic/flower_show

Smith College Bulb and Show, Northampton

Saturday, March 4 - Sunday, March 19.

<https://garden.smith.edu/plants/lyman-conservatory/seasonal-shows/future-show-dates>

Book Reviews

Review of *Paddle for Water*, by Nancy DeWitte Condon

Most Club members know Nancy as an enthusiastic officer and field trip leader, often co-leading trips with Tom. To those activities we can now add author... of a very engaging account of canoeing across America with Tom as companion (1986-7) and husband (1997). This journey was no ordinary canoe trip; it totaled 5000 miles with dozens of portages (complete with 300 pounds of canoe and gear), passage through 16 locks, travel by vehicle over mountain passes, and many stops to converse with local reporters to present their message of the value of clean water and environmental quality.

It is not inappropriate to describe this account as a love story at many levels; of a personal nature, for clean and free-flowing water, of paddling (against the current, maybe not so much), and of a healthy environment. A trip of this length, 13 months of paddling on nine rivers through 19 states, would be expected to provide both uplifting moments and periods of despondency. An example of the latter occurred mid-country on the Missouri River described in chapter seven entitled "The Miserable Missouri" which could have been called "misery on the Missouri". Nancy provides graphic descriptions of the muddy brown water, days of overcast or rainy often windy weather, flotsam-consuming barges, litter-infested campsites with too many bugs, and the theft of cameras and other items at a lunch stop. No wonder that these activities turned Tom's favorite activity of canoe-camping into drudgery and resulted, in Atchison Kansas, in the end of phase one of the trip.

Highlights are described too of course, many of which involved the kindness of strangers who provided such assistance as rides to or from town, occasional overnights in a motel room and seemingly small (but much appreciated) gifts of cold drinks or snacks. Not surprisingly, the ultimate elation occurs at trip's end at Tybee Island Georgia with family members toasting the Condon's success with glasses of good, clean water, reminiscent of the message in the title of this delightful book. You can get a copy of *Paddle for Water* on Amazon books:: <http://tinyurl.com/mrudv487>, or search Amazon books for "Paddle for Water."

~Review by Dave Lovejoy

Review of *Flora of Forest Park, Springfield, Massachusetts*, by Dr. David Lovejoy, a layman-friendly scholarly work.

We have a twice-published author/scholar in our midst. Our recording secretary, Dave Lovejoy, has published his second book: *Flora of Forest Park, Springfield, Massachusetts*, in conjunction with The Naturalists' Club. Many members have already purchased a copy, including me. Dave has masterfully blended an academic reference with an appealing read for the botanical dabbler. Most of the book contains the Species List, documenting Forest Park's vascular plants, including historical occurrences, location, and abundance.

Thank goodness Dave included common names with the scientific ones, otherwise my eyes would glaze over. In addition to the Species List, Dave includes both a botanical history and cultural history of the park, which, I have to say, is my favorite part. Dave's book is a vital record, documenting botanical changes from years past and archiving this information for botanists in the future. You can get your copy for \$15 at one of our monthly Naturalists' Club meetings. If you would like a copy mailed, add \$3.50 for shipping and send a check (made out to The Naturalists' Club) to Dave Lovejoy, Department of Biology, Westfield State University, POB 1630, Westfield MA 01086. All proceeds go to the Club treasury.

~Review by Nancy Condon

Climate change is a civilizational wake-up call. A powerful message—spoken in the language of fires, floods, droughts, and extinctions—telling us that we need an entirely new economic model and a new way of sharing this planet."

~Naomi Klein





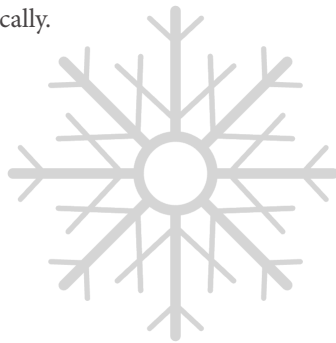
FROM THE TREASURER

Those with a date of "22-23" (or later) on your newsletter mailing label have paid for this year. Otherwise, your dues are owed for the year that started in September 2022. You may renew by sending a check (payable to The Naturalists' Club) to

Tom Condon,
80 General Knox Road,
Russell, MA 01071

Note: If your contact information has not changed, the form below need not be completed. We would, however, like to have your email address if you haven't sent it previously.

Please direct changes or inquiries to Tom Condon, who maintains our mailing list. And please let Tom know if you would like to receive your newsletter electronically.



MEMBERSHIP LEVELS

- \$20 per year for Individual or Family Membership
- \$30 per year for Supporting Membership
- \$50 per year for Sustaining Membership
- \$300 for Lifetime Membership

Renew your membership

Name _____

Address _____

Phone Number _____ Email _____

Do you opt for electronic delivery of the Naturalists' Club Newsletter? Yes _____ No _____

Requests for programs/trips: Please send information per the above to: Club Treasurer, Tom Condon
80 General Knox Road, Russell, MA 01071

The NATURALISTS' CLUB was founded in 1969 for the purpose of actively promoting knowledge, appreciation, and preservation of our natural environment.

It is an all-volunteer non-profit organization.

Education is a main focus of The NATURALISTS' CLUB.

Programming, with an emphasis on local natural history, is designed to create camaraderie among people of diverse interests through experiences deepening their appreciation of nature.

Activities are geared to acquaint the layperson with the natural world, mostly through field trips. Monthly meetings are held at the Science Museum at the Quadrangle in Springfield, Mass. Most field trips and programs are free.

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The layout of this issue is based on a template designed by Loren Hoffman.