



YELLOWSTONE
ASSOCIATION
INSTITUTE

EDUCATIONAL PROGRAMS ☀ SUMMER 2012



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I N S P I R E . E D U C A T E . P R E S E R V E .

www.YellowstoneAssociation.org

PROGRAM TYPES AND ACTIVITY LEVELS

Whether you are coming to Yellowstone for the first time with friends or family, or this is your umpteenth trip and you want to pursue a special interest, we have a program for you. Our programs fall into three categories—Lodging and Learning, Private Tours, and Field Seminars—all defined here.

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LODGING AND LEARNING

packages include lodging, most meals, plus daily field trips, in-park transportation, and optional evening programs. Register any time. Call 866-439-7375. See page 4.

PRIVATE TOURS

let you choose daily outings to best fit your family or small group's itinerary, activity level, and interests. Register any time. Call 406-848-2400. See page 5.

FIELD SEMINARS

examine specific aspects of the park through a mix of fun field trips and classroom presentations. Registration begins January 18, 2012, at 8 a.m. mountain time for members; general registration begins one week later. Call 406-848-2400. See page 6.

HOW DOES ALL THIS WORK?

- Preview our summer offerings on the following pages.
- Visit our website for detailed program information, including lodging options, schedules, required clothing and equipment, and our payment and cancellation policy.
- Call or visit our website to register.
- Soon after you enroll, you'll receive important information from us. Please be sure to thoroughly read program details as soon as you get them and return any requested information. We want you to be prepared so you can have the time of your life.

HOW FIT DO YOU NEED TO BE?

Institute courses are based in the field, and most require you to be an active participant. If you take part in a field outing, you will need to carry a daypack—with food, clothing, water, and other essentials—that generally weighs up to 15 pounds. You will be exercising at elevations of 5000 to 12,000 feet. Activities at these altitudes are more strenuous than the same activities at lower altitudes, and some people can experience associated health complications. To help you decide which course is best for you, we have developed a rating system that takes into account a hike's distance, pace, elevation gain, and terrain. Please note that these ratings are only guidelines: What is labeled "strenuous" might be routine for a very fit visitor, while a "moderate" course might be quite difficult to a non-hiker who lives at sea level. For the most precise information about each activity or the effects of Yellowstone's altitude or environment, please refer to your course letter or call us at 406-848-2400.

ACTIVITY LEVEL SCALE

 Leisurely hikes up to 1 mile per day through relatively flat terrain on maintained trails.

 Hikes up to 3 miles per day with elevation gains up to 600 feet. Some off-trail hiking possible.

 Brisk hikes up to 5 miles per day with occasional elevation gains up to 1000 feet in undulating terrain.

 Brisk aerobic hikes up to 8 miles per day with climbs up to 1500 feet on dirt trails. Loose rocks, uneven footing, and off-trail hiking are possible. Good coordination is recommended.

 Brisk aerobic, destination-oriented hiking up to 12 miles a day. Elevation changes up to 2000 feet on dirt trails or off-trail; loose rock, uneven footing, steep hillside traverses, and stream crossings are possible. Good coordination is required.



LODGING OPTIONS

Exclusively for Institute students: When you learn with us, you can stay with us! Many of our Field Seminars use the historic Lamar Buffalo Ranch as a base of operations. If your Field Seminar takes place at the Buffalo Ranch, you can stay there and enjoy the pristine wilderness setting. If your Field Seminar takes place in Gardiner, lodging may be available at the Yellowstone Overlook Field Campus. Inquire when you register. If you are taking a Private Tour, **stay at our Yellowstone Overlook Field Campus and save 25 percent** on your Private Tour tuition. It's easy to book your lodging when you sign up for your course.

"The quality of the cabins and the bath house were amazing! Hot water and tiled floors—like a nice hotel...in Lamar Valley."



Photo: Karen Withrow

LAMAR BUFFALO RANCH FIELD CAMPUS

Far from other development, the ranch in Yellowstone's northeast corner offers comfortable lodging in an historic wilderness setting. You'll enjoy a log cabin with a propane heater, a bathhouse with private showers, and a common building with fully equipped kitchen where you prepare your own meals. Shared cabins are \$30 per person per night.

YELLOWSTONE OVERLOOK KENDEDA FIELD CAMPUS

Perfect for families and small groups, the Yellowstone Overlook features comfortable cabins on 80 acres, awe-inspiring views, and easy access to the northern section of the park. Cabins have self-serve kitchens for preparing meals and open floor plans that are perfect for group dining and evening activities. Enjoy our educational learning libraries. Groups that need a formal classroom setting can arrange to use the classrooms at our headquarters just down the hill in Gardiner.

Nightly Cabin Rates:

Cabin 1: \$400 per night for up to 12 people
Cabin 2: \$400 per night for up to 12 people
Cabin 3: \$200 per night for up to 5 people
Rates effective through October 31, 2012.



"The Yellowstone Overlook accommodations are spacious, bright, and new. The staff is terrific and the experiences are phenomenal. Thank you."

Photo: Tracy Ratsch

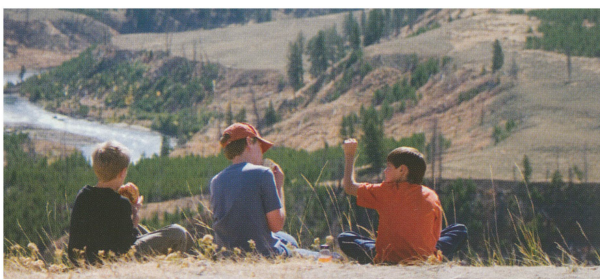


Photo: Bill Mahoney



Photo: Sharon Spence



Photo: Bill Mahoney

LODGING AND LEARNING PROGRAMS

Lodging and Learning programs combine just the right amount of education and recreation. You'll be based at park hotels and taught by our naturalist guides, who are intimately familiar with Yellowstone. Packages are offered in partnership with Xanterra Parks & Resorts®, and include daily field trips, lodging, most meals, in-park transportation, and optional evening programs. This is our vacation package that covers almost everything and provides fun and discovery, too. Minimum age is 12 unless noted. Rates are double/single occupancy and don't include taxes or utility fees.

SPRING WOLF AND BEAR DISCOVERY

3-day programs offered May 12, 14, 16, 18, 20, 22, 24, 26, 28, 30
4 nights at Mammoth Hot Springs
\$669/\$893

Delve into the world of Yellowstone's wolves and bears as you go early morning wildlife viewing; then learn about behavior, ecology, and conservation on leisurely hikes. ☀

ESSENTIAL YELLOWSTONE

4-day programs offered May 18, 25, June 1, August 24, 31, September 14
5 nights at Lake Hotel
\$1,179/\$1,737

Our naturalists guide you in wildlife watching, walking the rim of Yellowstone's Grand Canyon, and learning about the park's geology. ☀

OLD TIMES ON THE GRAND TOUR

5-day programs offered May 20, 27, June 10, 24, July 1, 15, 29, August 12, 19, 26, September 2, 9, 16
2 nights each at Mammoth Hot Springs, Old Faithful Snow Lodge, Lake Hotel
\$1,609/\$2,065

Tour the park in style in a classic Yellowstone bus with retractable top. Stay in the best park hotels and enjoy walking tours of historic and thermal areas. ☀

TRAILS THROUGH YELLOWSTONE

4-day programs offered Monday to Friday from May 28 to September 24
2 nights at Mammoth Hot Springs, 2 nights at Grant Village
\$839/\$1,103

Pack boots and daypacks. We'll hike specific trails to explore geysers, Yellowstone's Grand Canyon, and valleys full of wildlife. ☀

SELECTED "BEST SUMMER FAMILY CAMP IN AMERICA" BY GOOD MORNING AMERICA AND FAMILY FUN MAGAZINE!

YELLOWSTONE FOR FAMILIES

4-day programs offered Monday to Friday and Friday to Tuesday from June 4 to August 17
4 nights at Mammoth Hot Springs or Grant Village
Mammoth: \$699/\$923/\$435 per child
Grant: \$829/\$1,133/\$495 per child

Families with kids ages 8–12 join our naturalist to explore waterfalls and geysers, track animals, and work on Junior Ranger badges. ☀

SUMMER WILDLIFE EXPEDITION

4-day programs offered June 18, July 9, 23, August 6
2 nights at Mammoth Hot Springs, 2 nights at Lake Hotel
\$1,338/\$1,794

Search for and learn about wolves, bears, elk, bison, and more as an Institute naturalist guide takes you through Yellowstone by bus, by foot, and by boat. ☀

FALL WOLF AND ELK DISCOVERY

3-day programs offered August 23, 29, September 4, 10, 16, 22, 28, October 4
4 nights at Mammoth Hot Springs
\$649/\$873

Delve into the world of Yellowstone's wolves and elk as you go early morning wildlife viewing; then learn about behavior, ecology, and conservation on leisurely hikes. ☀

ROOSEVELT RENDEZVOUS

4-day programs offered September 7, 11, 15
4 nights at Roosevelt Lodge
\$739/\$869

It's camp for grown-ups. Choose a different half- or full-day field trip each day. Learn photography, read animal tracks, hike, or search for wolves. Enjoy buffet dinners and evening programs. ☀

"My family had a fantastic experience and our instructor was very knowledgeable and friendly and accommodating."

Photo: Karen Withrow

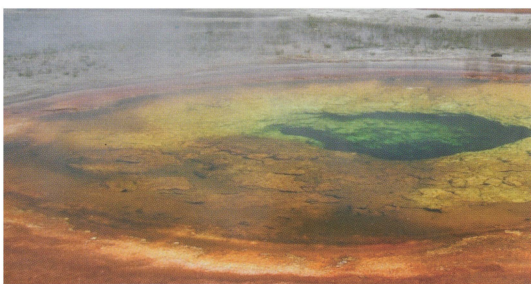


Photo: Stephanie Ripley



Photo: Karen Withrow

PRIVATE TOURS

Private Tours offer daily options to best fit your itinerary and interests. Combine days for a longer stay. We'll make sure everything, including optional walks or hikes, matches your activity level. Your Institute naturalist guide will introduce you to Yellowstone, provide advice to make the most of your visit, and lead you into the wonders of the park. Tuition includes instruction, transportation for the day, snacks, and use of high-power spotting scopes and binoculars. We'll also help your children earn their Junior Ranger badges. Meals and lodging are not included. Instructors will pick you up at your hotel. Better yet, **stay with us at our Yellowstone Overlook Field Campus and save 25 percent on your tuition.**

WILDLIFE WATCHING ON THE NORTHERN RANGE

Start: 6 or 8 a.m. at Gardiner or Mammoth; 7 a.m. at Roosevelt or Lamar

Discover the diverse and abundant wildlife of Yellowstone's northern range. ☀

NATURAL HISTORY AND GEOLOGY: YELLOWSTONE LAKE AND GRAND CANYON OF THE YELLOWSTONE

Start: 8 a.m. at Gardiner, Mammoth, Canyon, Norris, or Lake

Explore the natural and geologic history of the Grand Canyon and Yellowstone Lake areas. ☀

DAY HIKING IN YELLOWSTONE

Start: 8 a.m. at Gardiner, Mammoth, Canyon, Lake, or Roosevelt; 8:30 a.m. at Madison or Old Faithful

Travel Yellowstone on carefully chosen hikes that show you the park's diverse landscape. ☀

BACKPACKING IN YELLOWSTONE

Start: 8 a.m. in Gardiner

Learn about natural history and wildlife with an instructor who will help you hike and camp comfortably. Call for specific details. Rates vary depending on group size and itinerary. ☀

GEYSERS, MUDPOTS, AND HOT SPRINGS: OLD FAITHFUL AREA

Start: 8 a.m. at Gardiner, Mammoth, or Norris; 8:30 a.m. at Madison or Old Faithful

Take an in-depth look at the world's greatest concentration of hydrothermal features, and why they do the things they do. ☀

TOUR LENGTH:

Approximately 8 hours per day.

DAILY TUITION RATES:

1–5 participants \$495
6–13 participants \$650
14–26 participants \$1,300

Rates effective through October 31, 2012.

"After a day on our own we realized even more strongly how important it was to have someone who knew the history and the facts about what we were seeing."



Photo: Karen Withrow



Photo: Ashea Mills



Photo: Jim Peaco



Photo: Karen Withrow



Photo: Janice Smith

FIELD SEMINARS

Field Seminars examine specific aspects of the park ecosystem through just the right combination of fun field excursions and classroom presentations. Our seminar leaders are experts in their fields and include professors, naturalists, National Park Service staff, and acclaimed photographers, writers, historians, and artists. Courses are based either at the Lamar Buffalo Ranch Field Campus in the park's northeast corner, at the Yellowstone Overlook Field Campus in Gardiner, Montana, or at hotels and backcountry areas throughout the park. Minimum age is 18 unless otherwise noted. Children ages 16 and older are welcome if accompanied by an adult.

#401

NATURALIST GUIDE CERTIFICATE PROGRAM

Start: April 8 at 7 p.m.
End: April 27 at 5 p.m.
Location: Gardiner, Montana
Instructors: Julianne Baker, M.A., and Institute staff
Limit: 13 • \$1,200

In this professional-level course, you will gain the skills of a naturalist and the experience for sharing that knowledge. Learn to understand and interpret the wildlife, geology, plants, and climate of a landscape. You will also learn interpretive principles, safety and group management, group communication and facilitation—skills essential for effective interpretive programs and tours. During the course you can become a Certified Interpretive Guide (National Association for Interpretation), Leave No Trace Trainer (Leave No Trace, Inc.), and earn four undergraduate credits through the University of Montana Western. Lodging is recommended at the Yellowstone Overlook Field Campus. ☀

#501

WILDLIFE WATCHING IN GRIZZLY COUNTRY

Start: May 1 at 1 p.m.
End: May 4 at 9 p.m.
Location: Gardiner, Montana
Instructor: Gene Ball
Limit: 13 • \$375

The grizzlies are out and about, which makes wildlife watching especially interesting now. You'll find out how to adjust and use spotting scopes and binoculars for safe viewing. You'll also learn to observe the park's many wildlife species unobtrusively and ethically while exploring their habitats. In between and during viewing sessions and a few high-elevation hikes, you'll discuss various wildlife topics, issues, and controversies. ☀

#502

THE WOLVES OF YELLOWSTONE

Start: May 11 at 9 a.m.
End: May 13 at 4 p.m.
Location: Gardiner, Montana
Instructor: George Bumann, M.S.
Limit: 13 • \$300

Are you intrigued by wolves and hungry to learn more? This course will satisfy even the biggest appetite for wolf knowledge and experience. You'll begin with a comprehensive overview of wolf evolution, behavior, communication, and predation. Then you'll learn about Yellowstone wolf restoration; how well the wolves are doing; and how they relate to prey species, scavengers, and other animals. In addition to some class time, you'll spend plenty of time in the field observing wolves and prey, visiting the carcass of an animal killed by wolves, and exploring wolf habitat. ☀

"Learning about the geology of Yellowstone was truly an eye-opening experience. Seeing and learning about so much wildlife was...WILD!"

#503 **NEW!**

CELEBRATE THE MARVELS OF MIGRATION

Start: May 11 at 7 p.m.
End: May 12 at 4 p.m.
Location: Gardiner, Montana
Instructor: Katy Duffy, M.S.
Limit: 13 • \$125

Each spring, migratory birds pour north across the continent as they hasten to breeding areas—some stop here to nest, others to refuel before resuming their journey. Join us to welcome them. You'll enjoy an evening program showing the birds you are likely to see and learn how birds weighing as little as a nickel find their way back to summer nesting sites. Rise up early the next morning for a day in the bird-rich habitats of Yellowstone's northern range. We'll drive to a number of sites to do the "birders' shuffle"—slowly walking to observe as many migrants as possible. ☀

#504 **NEW! THE**

ECOLOGY OF FEAR: WOLVES, ELK, AND TROPHIC CASCADES

Start: May 21 at 5 p.m.
End: May 24 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Cristina Eisenberg, Ph.D. candidate
Limit: 13 • \$335

Immerse yourself in one of Yellowstone's hottest wildlife topics: How the "ecology of fear" between wolves and elk affects the Lamar Valley. Classroom discussions introduce you to the fundamentals of this concept and its relationship to a trophic cascade—an ecological change cascading through the ecosystem, affecting many of its inhabitants. Field work introduces you to classic field research tools and methods that you will use to search for evidence of this trophic cascade. As you follow the cascade, discover how wolves affect elk, aspen, songbirds, beavers, butterflies, and other Yellowstone inhabitants. ☀



Photo: Stephanie Ripley



Photo: Ashea Mills

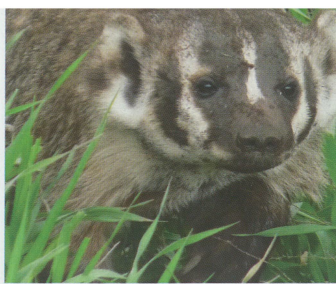


Photo: Karen Withrow

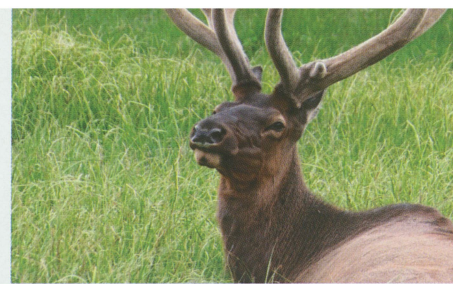


Photo: Stephanie Ripley

MAY FIELD SEMINARS

#505



WILDERNESS FIRST AID

Start: May 24 at 8 a.m.
End: May 25 at 5 p.m.
Location: Gardiner, Montana
Instructors: Wilderness Medicine Institute Staff
Limit: 24 • \$250

Do you spend a lot of time in the outdoors? Have you ever wondered how you would respond to a backcountry emergency? This 16-hour certification course is ideal for hikers, skiers, and outdoor professionals who want to learn the basics of emergency care in remote settings. You'll learn patient assessment, shock, wilderness wounds, fractures and dislocations, hypothermia, heat illness, altitude illness, and bites and stings. May be used to re-certify as a Wilderness First Responder. No previous certification is required. ☀

#506



NEW!

UNRAVELING LAMAR VALLEY'S LANDSCAPE

Start: May 24 at 9 a.m.
End: May 26 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Robin Patten, Ph.D.
Limit: 13 • \$300

Welcome to one of the world's greatest landscapes—Yellowstone's Lamar Valley. But, what does this mean? What is a landscape? You'll find out by exploring the layers and connections of Lamar through classroom discussions and field trips. Begin by unraveling the valley's physical layers and their interaction with plants and wildlife. Deepen your exploration by considering the cultural landscape: how humans interact with this landscape and why. Expand your experience through literature and art that enable you to see the Lamar Valley through others' eyes. This deep exploration of one remarkable valley will broaden your understanding of landscapes beyond Yellowstone. ☀

#507



BEHIND THE SCENES OF WOLF MANAGEMENT AND ECOLOGY

Start: May 25 at 5 p.m.
End: May 27 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jon Trapp, M.A.
Limit: 13 • \$225

In this class, you can walk in the footsteps of wolf biologists—literally. You'll visit some of the original reintroduction sites, following the trails worn by the biologists' daily visits. Stop at roadside locations where biologists listen for signals from radio-collared wolves. And discuss questions such as: How have wolves affected coyotes, grizzlies, cougars, ravens, and vegetation in Yellowstone? Can wolves survive outside the protection of the park? What happens now that wolves are no longer an endangered species? You will be up early and out late looking for wolves. Be prepared for time outdoors in any weather. ☀

#508



SPRING BABIES

Start: May 27 at 9 a.m.
End: May 28 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Shauna Baron
Limit: 13 • \$200

It's spring! And time to look for spring babies in the wilds of Yellowstone. You'll look for bear cubs, wolf pups, bison calves, elk calves, bighorn lambs, and lots of young birds. Find them with spotting scopes and binoculars, and by taking short walks to better vantage points. As you search, you'll also talk about why species choose certain birthing grounds and how they protect and raise their young. Expect to be outside from before dawn through the day to after sundown. Even so, you'll have plenty of free time to enjoy all aspects of Yellowstone's vibrant spring. ☀

#509



WILDLIFE WATCHING IN GRIZZLY COUNTRY

Start: May 28 at 1 p.m.
End: May 31 at 9 p.m.
Location: Lamar Buffalo Ranch
Instructor: Gene Ball
Limit: 13 • \$375

The grizzlies are out and about, which makes wildlife watching especially interesting now. You'll find out how to adjust and use spotting scopes and binoculars for safe viewing. You'll also learn to observe the park's many wildlife species unobtrusively and ethically while exploring their habitats. In between and during viewing sessions and a few high-elevation hikes, you'll discuss various wildlife topics, issues, and controversies. ☀

#510



MAMMAL SIGNS: INTERPRETING TRACKS, SCAT, AND HAIR

Start: May 29 at 9 a.m.
End: June 1 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jim Halfpenny, Ph.D.
Limit: 13 • \$415

Mammals are elusive and difficult to observe in the wild, but you can discover their presence and behavior in the signs they leave behind. Through illustrated lectures and laboratories, you'll learn about natural history, ecology, and anatomy of mammals. Skills covered include finding clues, measuring, averaging and using relative size of tracks, footprint identification and preservation, distinguishing species, estimating track age, following trails, interpreting gaits, estimating speed and field of view, and reading the complete story. Signs covered include footprints, tree scratching, scat, hair, teeth, bones, and skulls. Evenings we will summarize and interpret data. ☀

SPRING IS FOR WILDLIFE

Locals like to joke that Yellowstone has eleven months of winter and one month of summer. But they know better. Spring arrives on the northern range with the mountain bluebirds in March. Snow may still be on the ground, but these birds don't have a problem finding insects to eat. They pick off bugs from the carcasses of winter-killed animals. Such carcasses are a prime buffet for other animals, too, including ravens, golden and bald eagles, coyotes, and bears. Wolves may come by, but usually they hunt for fresher food for themselves and their pups, who are still at the den. Bison calves, born red and ready to run, dance around their mothers and romp with each other. In May, you might notice one animal missing—elk! It's the time of year when bulls are moving to high country and cows hide away to give birth. When the cows return with their spotted calves, the locals know summer is almost here.

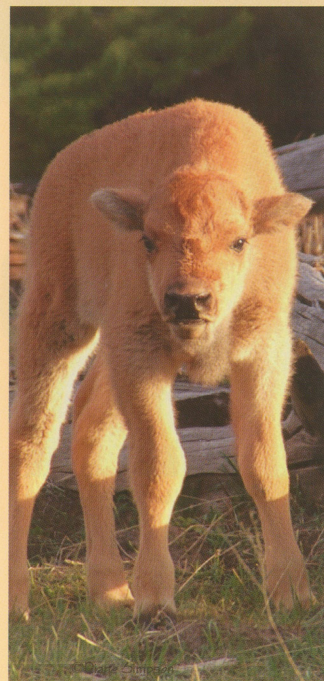


Photo: Diane Simpson



Photo: Meg Sommers



Photo: Stephanie Ripley



Photo: Dave Syfert



Photo: Stephanie Ripley

JUNE FIELD SEMINARS

PORCH-SITTING AT THE LAMAR BUFFALO RANCH

After the dinner meal rush at the bunkhouse kitchen, settle down on the back porch for quiet time with the Lamar Valley. Rose Creek murmurs downhill past the ranch, taking your eyes with it beyond the road, into rolling hills of grass. Warbling calls float across the distance as sandhill cranes call to each other on their way home. Bring your binoculars up and you might see their long legs trailing behind their long wings. Catch a low rumble? Perhaps buffalo are close by. Take a deep breath to quiet yourself as you listen, and smell the sharp scent of sagebrush. Night falls, images fade, sounds change. As you walk away from the porch, away from the quiet creek, pause and listen again. A coyote yips sharply, repeatedly. And then you hear them—the low pitched howls of wolves on the move, through their territory we call Lamar.



Photo: Dave Syfert

#601 **SPRING INTO WILDLIFE PHOTOGRAPHY**

Start: June 2 at 9 a.m.
End: June 5 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Meg Sommers
Limit: 13 • \$495

Calling all beginning and intermediate photographers! Now is the time to learn tips for photographing Yellowstone's spring wildlife action. You'll spend most of the day outdoors, finding out what animals big and small do and where they are—keys to finding them for your photos. You'll also practice photographic fundamentals, techniques, and the ethics of wildlife photography. In class sessions, you'll focus on composition, lighting, equipment, and computer skills. So pack your digital camera and tripod and head into the wild that is spring in Yellowstone. ☀

#602 **BEARS: BONES, SIGNS, AND STORIES**

Start: June 2 at 9 a.m.
End: June 5 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Jim Garry, M.S. and Jim Halfpenny, Ph.D.
Limit: 12 • \$490

Ursophiles (Greek for "bear lovers") unite! Discover a uniquely broad view of bears from their evolutionary origins to interpretation of their sign to compelling renditions of classic bear tales. In lectures and the field, you'll learn about bear evolution, ecology, and management from carnivore ecologist Jim Halfpenny and about the rich cultural history of bears from folklorist Jim Garry. We will observe these magnificent bears during the field trips. ☀

#603 **NEW! LAMAR WILDLIFE GETAWAY**

Start: June 6 at 5:30 p.m.
End: June 10 at 9 a.m.
Location: Lamar Buffalo Ranch
Instructors: Brad Bulin, M.S. and Institute Staff
Limit: 24 • Minimum age: 12
\$770 - INCLUDES MEALS!

Unplug, settle in, and roll with the rhythms of early summer in Yellowstone. Each morning you'll head out to search for wildlife. As you scan and observe, you'll learn about the animals' behavior and where they fit in the Yellowstone scene. Each afternoon, explore more of wild Yellowstone on hikes highlighting what's special about this time of year. You can choose from two hiking options each afternoon, such as easy natural history rambles, hunts for animal sign, and hikes to historic wildlife locations. You'll also learn about wildlife from experts in the field and during evening programs. ☀

#604 **STAGECOACHES IN OLD YELLOWSTONE**

Start: June 8 at 8:30 a.m.
End: June 10 at 4 p.m.
Location: Gardiner, Montana
Instructor: Lee Whittlesey, M.A., J.D., Ph.D.
Limit: 13 • \$300

Come along on this first-class trip through the old days and olden ways of stagecoach travel in Yellowstone National Park. Your guide is the park's historian, who sets the stage of 19th-century politics, geography, and the evolution of tourism. You'll hear his stories, read travelers' handwritten diaries, and view old photographs showing the travails and joys of very determined visitors. You'll find out what camping meant in those long-ago days—and also discover the beauty, poetry, and wonder that made this period such a magical time in the history of the world's first national park. ☀

#605 **NEW! GRIZZLY BEARS AND HUMANS: CAN WE GET ALONG?**

Start: June 15 at 7 p.m.
End: June 17 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Mark Haroldson and Sue Consolo-Murphy, M.S.
Limit: 12 • \$270

June is the month when grizzly bears roam nose to the ground, searching for elk calves and other vulnerable prey. You'll be in the midst of the bruin action, participating in field trips and class discussions about the bears of Yellowstone, the challenges they face in the 21st century, and the deep cultural connections people have to bears. You'll also practice simple ways to keep yourself—and bears—safe while you and the bears are both out and about in Yellowstone. ☀

#606 **NEW! BIRDS OF YELLOWSTONE**

Start: June 16 at 7 p.m.
End: June 18 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Brian Thorpe, M.S.
Limit: 13 • \$225

Yellowstone's varied habitats make the park a great place to begin watching birds. You'll start with a classroom introduction to birding, with tips on what field marks to look for and how to use field guides, binoculars, and spotting scopes. Then spend two full days in the park, closely examining the more common species in Yellowstone, learning which birds live in particular habitats, and exploring the wonder of bird migration, song, and courtship. You'll also investigate conservation challenges facing birds and how you can help them survive into the future. ☀

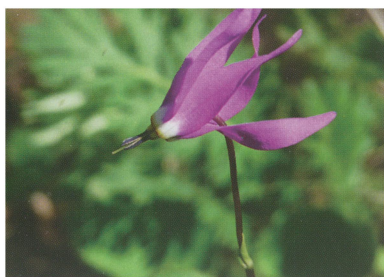


Photo: Karen Withrow



Photo: Karen Withrow



Photo: Stephanie Ripley



Photo: Karen Withrow

JUNE FIELD SEMINARS

#607 **NEW!**

FOLLOW YOUR OWN TRAIL ACROSS YELLOWSTONE

Start: June 19 at 9 a.m.
End: June 19 at 4:30 p.m.
Location: Lamar Buffalo Ranch
Instructor: Orville Bach, Jr., Ed.D.
Limit: 13 • \$100

Experience how hikes can become paths to surprise discoveries others don't see. You'll embark upon this adventure by learning how to travel off-trail and still know where you are. You'll decipher a topographic map, set a compass course (and follow it!), and experiment with a GPS unit. Master your new skills by plotting and following your own trail with a group. While you walk from point to point, you'll learn a bit of natural history from one of Yellowstone's most experienced park rangers. ☀

#608 **NEW!**

GHOST HOTELS

Start: June 21 at 8 a.m.
End: June 22 at 5 p.m.
Location: Old Faithful
Instructor: Leslie Quinn, M.Ed.
Limit: 13 • \$200

Back by popular demand and twice the length—this is your chance to tour Yellowstone while learning about its ghost hotels and other historical oddities. Which park hostelry did an English nobleman describe as "the last outpost of civilization?" Was the Canyon Hotel lost because of a conspiracy to make the new Canyon Lodge viable? Do you really drive right through a now-vanished tunnel somewhere on the Grand Loop Road? You'll uncover other fun pieces of Yellowstone's history through antique photographs and stories told by your instructor, a park hotel expert. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#609

WILDFLOWERS OF YELLOWSTONE

Start: June 24 at 9 a.m.
End: June 26 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Wayne Phillips
Limit: 13 • \$300

When the sun rides high after summer solstice, people come from around the world to revel in the peak of Yellowstone's wildflower season. You can delve deeper into this beauty for three days, walking through varied habitats—montane dry and wet forest, aspen, sagebrush, riparian/wetland, meadow, and subalpine forest—as you search for the park's native wildflowers, grasses, flowering shrubs, and trees. You'll find out how to identify up to 100 species and learn hidden details such as which ones are good to eat and which to avoid, and how Native Americans use them. ☀

#610 **NEW!**

OFF-TRAIL HIKING ON THE NORTHERN RANGE

Start: June 24 at 7 p.m.
End: June 27 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Julianne Baker, M.A.
Limit: 13 • \$325

Barbara Kingsolver has written "People need wild places. . . . We need to be able to taste grace and know once again that we desire it." Hiking off-trail in the northern range is to taste Yellowstone's grace. You'll explore this area of grassy meadows and sagebrush, enjoying wide vistas, easy route finding, and zigzag meanderings. After an evening to review the basics of safe, comfortable, low-impact backcountry travel, you will head off the beaten path on hikes ranging up to 5 miles with climbs up to 1000 feet. Come, wander this wild, seldom-seen place. ☀

#611

WHO'S THERE? FINDING OWLS IN YELLOWSTONE

Start: June 27 at 9 a.m.
End: June 28 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Dan Hartman
Limit: 13 • \$200

Explore the mysterious world of Yellowstone's owls—some are about during the day, others solely at night; some nest here, others just pass through. You'll spend some quality class time viewing BBC and National Geographic films about owls. On morning and evening forays, you'll get a feel for their habitat by visiting old nests and searching for sign of their presence. Find out which animals are food for owls and which might just make a meal of an owl. All this, and a good night's sleep too. ☀

#612

SUMMER WILDLIFE WATCHING

Start: June 29 at 7 p.m.
End: July 2 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Brad Bulin, M.S.
Limit: 13 • \$325

Learn from an expert why Yellowstone's northern range is often referred to as "North America's Serengeti." From the park's famous big mammals to lesser-known wildlife such as pika, salamanders, and even insects, you'll see how the northern range lives up to its name. Classroom talks complement field excursions to look for wolves and bears in the mornings and evenings, and to search for reptiles, waterfowl, trout, and otters during the day. Short hikes throughout the northern range and along the Yellowstone River help paint the picture of the fascinating assortment of wildlife that call Yellowstone's home. ☀

"Anyone interested in the natural environment in any way would delight in this experience."

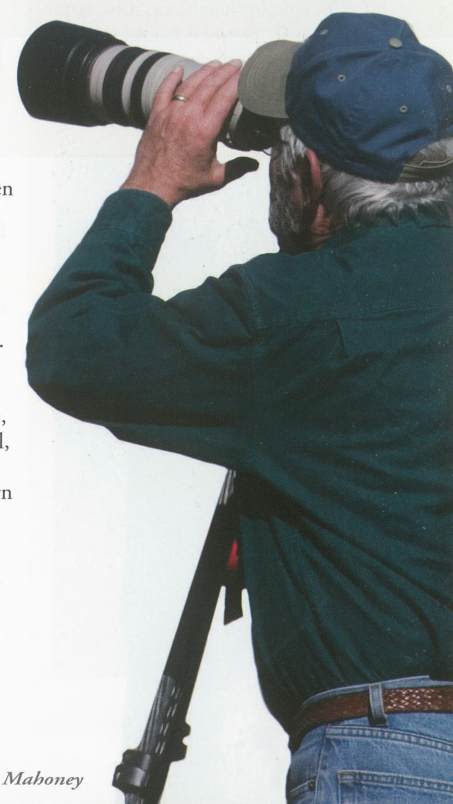


Photo: Bill Mahoney



Photo: Stephanie Ripley

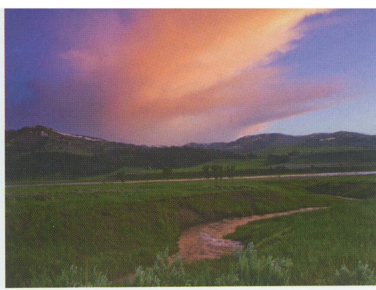


Photo: Mary Liz Austin



Photo: Karen Withrow

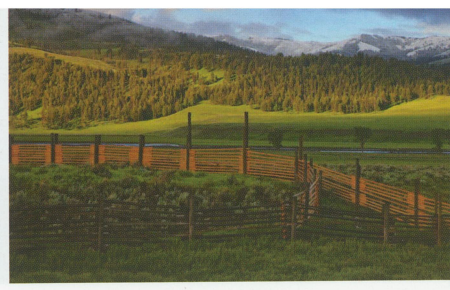


Photo: Terry Donnelly

JULY FIELD SEMINARS

**“Very Fun!
Provided the
big picture of
how geological
processes are
the foundation
of everything
in Yellowstone.
Instructor made
a complicated
process
understandable.”**

#701 

SUMMER LANDSCAPE PHOTOGRAPHY

Start: July 1 at 9 a.m.
End: July 4 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Terry Donnelly and Mary Liz Austin
Limit: 12 • \$480

Combine Yellowstone's legendary scenes with atmospheric midsummer light as you learn the art of landscape photography. With a focus on creative expression and how the quality of light relates to the natural landscape, you'll photograph Yellowstone—from its grand vistas to intimate portraits of the land. You'll be on location both at sunrise and sunset to take advantage of the best light. In class, you'll discuss technical elements of photography, including tips for preparing digital photo files. The class concludes with a photo show of Yellowstone, featuring images you and other participants have captured. ☀

#702 **NEW!**
**LIGHTS! CAMERA!
ACTION! MAKING
A YELLOWSTONE
VIDEO**

Start: July 3 at 9 a.m.
End: July 5 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Brad Bulin, M.S.
Limit: 13 • \$305

Be the director of your own Yellowstone film. Working with a professional videographer, you will use your own video camera equipment to explore the video possibilities of the park. You'll be filming in the field for most of the class, looking for unusual perspectives, learning how to film animals without disturbing them, and using landscape as part of your story. You'll have some time in class to discuss equipment and filming techniques and to try free editing software. Most of all, you'll enjoy the adventure of filming the wild country of Yellowstone. ☀

Photo: Jim Peaco

#703 

THE ART OF WILDFLOWER IDENTIFICATION

Start: July 6 at 8:30 a.m.
End: July 8 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Meredith Campbell
Limit: 13 • \$300

Develop a new way to identify and remember the names of the diverse and beautiful wildflowers that enhance our world. You'll begin with a classroom session on basic botanical terminology, how to use beginner key and field guides, and simple techniques for sketching in the field (no previous experience is required). Then you'll spend most of the time on short hikes to observe wildflowers and develop these new skills. With this knowledge and the observations that come with field sketching, you'll better understand, remember, and appreciate Yellowstone's wildflowers. ☀

#704 

A YELLOWSTONE NATURALIST EXPERIENCE

Start: July 6 at 6 p.m.
End: July 8 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Katy Duffy, M.S., and Jim Garry, M.S.
Limit: 12 • \$270

Explore northern Yellowstone as a naturalist does—with your senses on full alert. You'll become more familiar with Yellowstone's animals and plants by using your ears and eyes, feeling with your feet and fingers, and interpreting scents. Explore a track with your fingers to feel clues to the animal's behavior. Examine a daybed with your nose to detect who slept there. You'll observe nesting birds discreetly, and decipher their songs and calls. And don't forget the plants—search for wildflowers and their pollinators in forests, meadows, and wetlands. With this naturalist experience, you will become an insider outside in Yellowstone. ☀

#705    

NEW! LAMAR WILDLIFE GETAWAY

Start: July 9 at 5:30 p.m.
End: July 13 at 9 a.m.
Location: Lamar Buffalo Ranch
Instructors: Brad Bulin, M.S. and Institute Staff
Limit: 24 • Minimum age: 12
\$770 - INCLUDES MEALS!

Unplug, settle in, and roll with the rhythms of summer in Yellowstone. Each morning you'll head out to search for wildlife. As you scan and observe, you'll learn about the animals' behavior and where they fit in the Yellowstone scene. Each afternoon, explore more of wild Yellowstone on hikes highlighting what's special about this time of year. You can choose from two hiking options each afternoon, such as easy natural history rambles, hunts for animal sign, and hikes to historic wildlife locations. You'll also learn about wildlife from experts in the field and during evening programs. ☀

#706 **NEW!**
**ON THE TRAIL OF
HOWARD EATON**

Start: July 10 at 8 a.m.
End: July 10 at 5 p.m.
Location: Old Faithful
Instructor: Leslie Quinn, M.Ed.
Limit: 13 • \$100

Seldom used and mostly abandoned, the Howard Eaton Trail still describes a figure eight around Yellowstone. Howard Eaton guided his first group of visitors along this trail in 1883, and from that point forward he was considered one of the greatest and most well-respected guides of Yellowstone. You'll learn about this fascinating man as you walk a long-abandoned 5-mile section of the trail. You'll also experience the adventure and primitive nature of hiking in the early days of Yellowstone—and perhaps hear hoofbeats of travelers from long ago. ☀

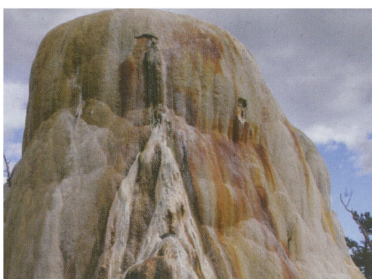


Photo: Shirley Cope



Photo: Joyce Olson



Photo: Karen Withrow



Photo: Mike Russell

JULY FIELD SEMINARS

#707 

ROADSIDE HISTORY OF THE 1877 NEZ PERCE FLIGHT

Start: July 14 at 8:30 a.m.

End: July 15 at 4 p.m.

Location: Lamar Buffalo Ranch

Instructor: Lee Whittlesey, M.A., J.D., Ph.D.

Limit: 13 • \$200

August 1877 found the Nez Perce (or, in their language, Nez-Me-Poo) crossing Yellowstone in their thousand-mile flight from the U.S. Army. Their entire flight is now a national historic trail, and you'll explore the portion inside the park. Your guide is the park's historian, who will acquaint you with the events and characters of this tragedy. You'll be able to study maps, photographs, and documents—some just recently found. And you'll walk where families walked, see where brash young warriors took park visitors hostage, and visit other sites as you experience one of the saddest episodes in U.S. history. ☀

#708  **NEW!**

HIGH ENERGY AND ALPINE WILDFLOWERS

Start: July 14 at 9 a.m.

End: July 16 at 4 p.m.

Location: Lamar Buffalo Ranch

Instructor: Wayne Phillips

Limit: 13 • \$300

Grab your parka and bring an energy bar—you're going way up into the rarefied air of alpine tundra, where sky pilots and other tiny wildflowers burst into brilliant carpets during their short growing season. You'll visit three alpine locations in the Greater Yellowstone area, hiking up to 8 miles each day with some climbs as high as 1500 feet. Your reward: Dazzling light, eye-popping color, and discovering plants that grow in cushions and forests full of trees about your height. ☀

#709 

MAMMAL SIGNS: INTERPRETING TRACKS, SCAT, AND HAIRE

Start: July 16 at 9 a.m.

End: July 19 at 5 p.m.

Location: Lamar Buffalo Ranch

Instructor: Jim Halfpenny, Ph.D.

Limit: 13 • \$415

Mammals are elusive and difficult to observe in the wild, but you can discover their presence and behavior in the signs they leave behind. Through illustrated lectures and laboratories, you'll learn about natural history, ecology, and anatomy of mammals. Skills covered include finding clues, measuring, averaging and using relative size of tracks, footprint identification and preservation, distinguishing species, estimating track age, following trails, interpreting gaits, estimating speed and field of view, and reading the complete story. Signs covered include footprints, tree scratching, scat, hair, teeth, bones, and skulls. Evenings we will summarize and interpret data. ☀

#710 

ROADSIDE GEOLOGY OF YELLOWSTONE COUNTRY

Start: July 17 at 9 a.m.

End: July 19 at 4 p.m.

Location: Lamar Buffalo Ranch

Instructor: Robert Thomas, Ph.D.

Limit: 13 • \$300

Jump into the bus for three days exploring some of the most amazing roadside geology in the world: Yellowstone, Earth's largest active volcano. You'll examine rocks formed in continental collisions billions of years ago, ponder the forces that buried forests, and follow glaciers that covered the entire park in thousands of feet of ice. While traversing roads in and around the park, you'll find evidence of volcanic eruptions during the past 2.2 million years—including signs that the volcano continues its action today. ☀

#711  **NEW!**

DAY HIKING TO THE LAKES OF YELLOWSTONE

Start: July 18 at 7 p.m.

End: July 21 at 4 p.m.

Location: Canyon

Instructor: Julianne Baker, M.A.

Limit: 13 • \$325

Thoreau said: "A lake is the landscape's most beautiful and expressive feature. It is earth's eye; looking into which the beholder measures the depth of his own nature." Yellowstone's lakes are jewels just waiting for you to gaze upon. After an evening to review the basics of safe, comfortable, low-impact backcountry travel, you will hit the trail. Each day you'll visit a different lake, with time to enjoy the views and lunch. Come ready to measure yourself in the beauty of Yellowstone's lakes. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#712 

WOLVES: REALITY AND MYTH

Start: July 20 at 7 p.m.

End: July 22 at 3 p.m.

Location: Lamar Buffalo Ranch

Instructor: Nathan Varley, Ph.D.

Limit: 13 • \$225

Immerse yourself in the scientific and spiritual realm of the wolf with the guidance of a scientist who studies these provocative carnivores. Through field observations and classroom discussions, you'll explore how different cultures relate to wolves, how these relationships may relate to various myths and stories, and how the stories relate to the actual wild animal living in Yellowstone. Look for wolves on sunrise forays; hike through their habitat during the day. And throughout, learn how the wolf recovery project has ushered in a new era of scientific understanding. ☀

A QUICK BURST OF SUMMER

Summer seems to burst upon the landscape of Yellowstone, splashing color onto the hills as grasses green up and wildflowers bloom. Hillsides turn yellow with the blaze of arrowleaf balsamroot; meadows sparkle with the magenta and blue of sticky geranium and lupine. Tiny blue butterflies flit about meadows while larger striped swallowtails sail high between their landings. Ravens squawk at intruders, their black feathers showing iridescent in the sun. Even hot springs seem brighter as the hot day dissipates steam, revealing the brilliant emeralds and turquoises of their depths. Summer's quick and colorful beginning shifts to subtlety by August. The red bison calves turn to brown; adult bison rumble around as their mating time approaches. Grasses cure from green to gold. And the vibrant wildflower palette gives way to the lavenders of aster with occasional splashes of magenta-hued fireweed. Those who live in Yellowstone know: When fireweed is in full bloom, summer's end is near.



Photo: Karen Withrow



Sketch: George Bumann



Photo: Karen Withrow



Sketch: Hannah Hinchman

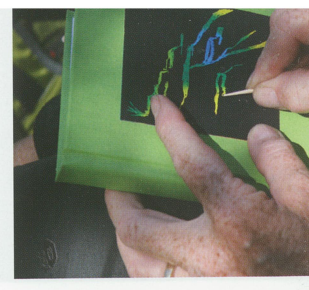


Photo: Karen Withrow

JULY FIELD SEMINARS

#713 **NEW!** SKETCHING YELLOWSTONE

Start: July 21 at 9 a.m.
End: July 22 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: George Bumann, M.S.
Limit: 13 • \$200

Spend a weekend sketching the wildlife and landscape of Yellowstone with a professional artist and naturalist as your instructor. Experienced or not, you'll learn drawing techniques to capture animal behavior and complex geology, plus other tips for drawing under challenging outdoor conditions. You'll also spend some time in the class to view examples, receive personal instruction, learn about anatomy, and enjoy demonstrations. If you'd like to extend your art experience in the park, consider taking the class that starts the next day, #715 *A Trail Through Leaves*, about the art of illustrated journaling. ✨

#714 **NEW!** ELECTRIC PEAK BACKPACK

Start: July 22 at 2 p.m.
End: July 27 at 5 p.m.
Location: Bozeman, Montana
Instructors: Jim Garry, M.S. and Patty Walton
Limit: 8 • \$720

Explore the wild northwest corner of Yellowstone, where Electric Peak overlooks hidden lakes, the rugged Gallatin Range, rushing cold creeks, and valleys full of wildflowers. You'll shoulder your backpack at the western edge of Yellowstone and hike on through to Mammoth Hot Springs. Along the way, you'll walk among world-class geology and through habitat full of wildlife. Once you come upon Electric Peak, you'll stash your pack for a day to hike this iconic peak. You will cover up to 13 miles per day over sometimes rough and steep terrain with possible daily elevation changes of 1000 feet or more. ✨

#715 **NEW!** A TRAIL THROUGH LEAVES: THE ART OF THE FIELD JOURNAL

Start: July 23 at 9 a.m.
End: July 26 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Hannah Hinchman
Limit: 13 • \$400

An illustrated field journal is a nimble instrument, where you can combine drawings, maps, commentary and questions, enfolding the smallest of events into the largest of landscapes. As a beginner or a veteran journal-keeper, you will learn a world of ways to bring your Yellowstone experiences to the page. You'll use your journal both in active adventure and quiet absorption, exploring many tools and techniques. If you want to expand field-journaling to the digital world, consider the optional iPad sketching session. You also might like another class, #713 *Sketching Yellowstone*, which precedes this class. ✨

#717 **NEW!** FLY-FISHING FOR FAMILIES

Start: July 24 at 9 a.m.
End: July 26 at 3 p.m.
Location: Gardiner, Montana
Instructor: Rhea Topping
Limit: 8
Minimum age: 12 • \$385

Introduce your family to the fast-growing sport of fly-fishing. You will learn the fundamentals of fly-casting, knot tying, fly and equipment selection, reading the water, wading safety, and of course, catch and release fishing. You'll also learn about Yellowstone's trout, and examine aquatic insects—a fascinating world for children of any age. You'll spend time in the classroom, on rivers near Yellowstone's North Entrance, and even tie on your own fly and go fishing with it. Wrap it all up with a graduation ceremony. Be sure to purchase your Yellowstone National Park fishing licenses before the class. ✨

#716 **NEW!** HIKING YELLOWSTONE'S COMPLEX ECOLOGY

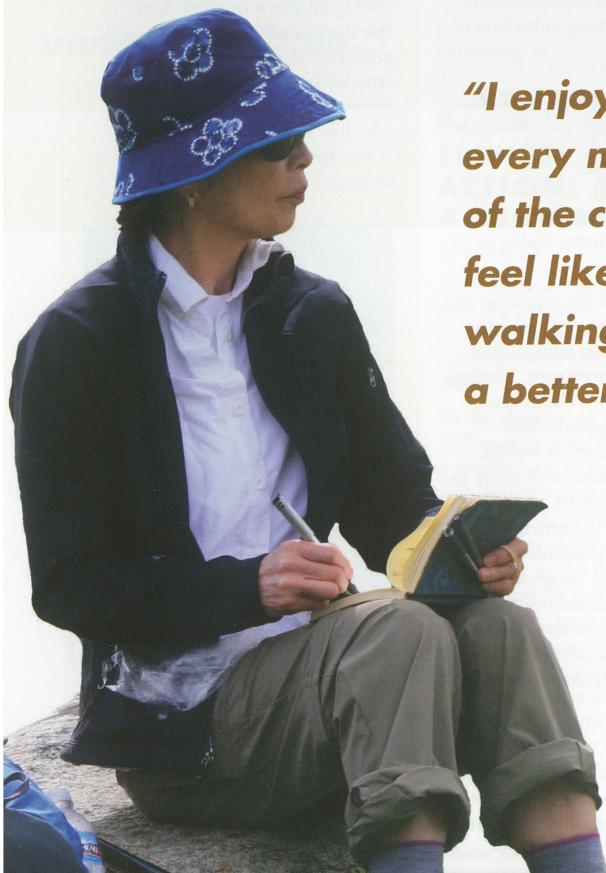
Start: July 23 at 7 p.m.
End: July 25 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Nathan Varley, Ph.D.
Limit: 13 • \$225

No trail guide covers the terrain that you will cover in this class, when you'll be hiking with a life-long Yellowstone naturalist. Climb peaks that tower over the Lamar Valley and span several different ecological communities. Here—and on other hikes—you'll learn about plants, animals, and competition between all sectors of the habitat you are traversing. Your hikes will explore environments ranging from sage grasslands, where elk and wolves interact daily, to whitebark pine stands dependent on Clark's nutcrackers. You'll also enjoy Nathan's stories about his many wilderness trips through Yellowstone. ✨

#718 **NEW!** EMERGING KNOWLEDGE OF WOLVES

Start: July 27 at 9 a.m.
End: July 29 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructors: Emily Staggs Almberg, Ph.D. student, Matt Metz, M.S., and guest researchers
Limit: 12 • \$360

Join leading wolf researchers to dig deeper into the ecology and behavior of wolves. You'll go into the field looking for wolves and participate in class discussions about what the researchers are learning. Their work addresses important topics such as summer patterns of wolf hunting—How does summer wolf hunting vary from winter? What do they hunt, how often, and where? How does the summer landscape affect their hunting patterns? You'll also hear the latest about what researchers have learned about canine distemper—the disease that periodically takes entire wolf litters—and the puzzle of its persistence in Yellowstone. ✨



"I enjoyed every moment of the class and feel like I am walking away a better artist."

Photo: Karen Withrow



Photo: Stephanie Ripley

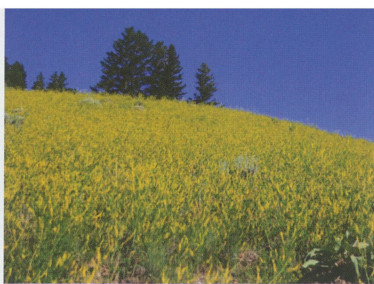


Photo: Stephanie Ripley

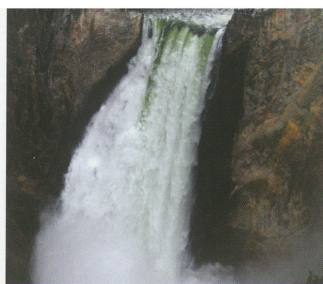


Photo: Stephanie Ripley



Photo: Karen Withrow

JULY - AUGUST FIELD SEMINARS

#719 **NEW!** ECOSYSTEMS OF YELLOWSTONE

Start: July 28 at 9 a.m.
End: July 29 at 5 p.m.
Location: Gardiner, Montana
Instructor: Jim Halfpenny, Ph.D.
Limit: 13 • \$215

Spend two days visiting Yellowstone's varied ecosystems, from lowland desert to the edge of alpine. You'll find out why cactus grows within a few miles of snowfields and what other ecological conditions make this park so interesting to scientists. In each ecosystem we'll explore abiotic environmental conditions, characteristic plants and animals, and what climate change will invoke. Your guide is one of the leading ecologists living in this area, and he'll show you how the smaller ecosystems combine to form the unique ecosystem of the Greater Yellowstone Ecosystem. Finally we'll evaluate the human-mediated biological future of Yellowstone. ☀

#720 **ALPINE ECOLOGY**

Start: July 30 at 6 a.m.
End: July 31 at 5 p.m.
Location: Cooke City, Montana
Instructor: Jim Halfpenny, Ph.D.
Limit: 13 • \$225

Led by an avid cold-weather ecologist, you'll explore the high-elevation landscapes of the Beartooth Plateau. Experience firsthand the dichotomy of stunning alpine wilderness and a forbidding environment of bitter cold and cutting wind. You'll learn how geology, climate, plants, and animals form the alpine ecosystem. Using an ecosystem approach, you'll examine individual species and their remarkable adaptations to this extreme environment of unsurpassed beauty. Rooms will be held at the Alpine Motel until 30 days prior to arrival. For rates and reservations, call 406-838-2262. ☀

#721 **THE BISON OF YELLOWSTONE**

Start: July 31 at 9 a.m.
End: August 2 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructors: Jim Garry, M.S. and Harold Picton, Ph.D.
Limit: 12 • \$360

The big boys are rumbling. While you're observing the often noisy and always fascinating bison rut, you'll also learn about one of the Old West's classic enduring symbols. You'll explore the biology and natural history of bison, its role in native cultures, and its role in the expanding white culture of the 1800s. Discover the role of the Lamar Buffalo Ranch in the survival of the bison and explore the current political turmoil around bison management and the definition of the Yellowstone ecosystem. ☀

#801 **INTRODUCTION TO FLY-FISHING**

Start: August 1 at 9 a.m.
End: August 4 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Rhea Topping
Limit: 8 • \$440

Learn to fly-fish in Yellowstone's world-class trout waters. You'll learn to cast, tie knots, check equipment, explore fly patterns and the insects they imitate, play and land a fish, address wading safety, catch-and-release fishing, and fly-fishing etiquette. Learn about the kinds of trout inhabiting Yellowstone waters, and related conservation issues, and how their lives interrelate with other animals. By the final day you should be able to confidently approach a trout stream, read the water, tie on the right fly and make a decent cast. Be sure to purchase your Yellowstone National Park fishing licenses before the class. ☀

#802 **NEW!** UNEARTHING YELLOWSTONE'S HUMAN HISTORY

Start: August 4 at 9 a.m.
End: August 5 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Robin Park, M.A.
Limit: 13 • \$200

Shipwrecks, ancient quarries, enigmatic stone alignments, and the mystery of the missing zookeeper's grave . . . unearth these and other archeological stories of Yellowstone. A park archeologist will give you the insider's look at key prehistoric and historic sites in a combination of classroom discussions and field expeditions. You'll learn to identify sites, ancient tools, and tool-making materials. You'll also see how early inhabitants used stones for structures and alignments that served spiritual functions or marked important places. And you'll hear the latest information that's been discovered about the people who lived in Yellowstone long ago. ☀

#803 **NEW!** CANYON TO LAMAR EXPEDITION BACKPACK

Start: August 4 at 2 p.m.
End: August 13 at 5 p.m.
Location: Bozeman, Montana
Instructors: Jim Garry, M.S. and Patty Walton
Limit: 8 • \$1,200

Fern, Astringent, Pelican, Mist, and Lamar—trace these names across the map of your 10-day expedition through the wild terrain of inner Yellowstone. Your trip begins within earshot of Upper Falls of the Yellowstone River and ends at Soda Butte Creek. Along the many miles in between, you'll hike through glaciated valleys and rejuvenating forests—and climb more than a few hills. You'll have two layover days to stash your heavy pack and enjoy hikes to scenic spots such as Frost Lake. Bring your bear spray and sturdiest boots for this expedition inside Yellowstone. Expect daily hikes of up to 13 miles over sometimes rough and steep terrain, on- or off-trail, and elevation changes of up to 2000 feet. ☀

INSPIRED BY YELLOWSTONE

Painters and sculptors. Poets. Writers of fiction, nonfiction, and folk tales. Filmmakers and photographers. They submerge themselves in the power of Yellowstone and share their love of this place through their creativity. Why does this high country rising out of dry basins and volcanic plains, this land that burps and boils and snows every month of the year, this crazy mixed up gorgeous challenging dangerous place inspire us so? Here at the Institute, you have ample opportunity to explore these questions in classes with creative people. Enjoy the stories and films of Jim Halfpenny and Jim Garry in *Bears: Bones, Signs, and Stories*. Explore photography in four different courses. Try your hand at making a video with Brad Bulin. Learn to sketch from George Bumann, Meredith Campbell, Hannah Hinchman, or Suzie Garner. Paint with Aaron Schuerr. And music? Ah, it's all around you here in Yellowstone. Just listen.

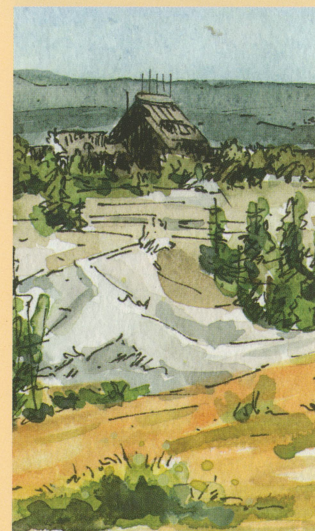


Illustration: Suzie Garner



Photo: Luther Gammon



Photo: Stephanie Ripley



Photo: Joyce Olson



Photo: Karen Withrow

AUGUST FIELD SEMINARS

HIKING LIKE NOWHERE ELSE

Field trip forays, afternoon hikes, day-long treks, or backpacking expeditions—whatever Institute hike you choose, you can be sure of experiences found nowhere else in the world. Here in Yellowstone, you can see buffalo and hot springs from the same trail. You may need to sing out for bears or bypass nursing elk. You can walk where the Nez Perce walked in 1877 or look for bighorn sheep on the same ridge where Teddy Roosevelt sat and watched them. You might hike a well-used trail but see the history hidden in lava rocks or find the scratches left behind by glaciers—details most hikers never know about. And on a few backcountry trails, if your timing is right, you can see a geyser erupt as you emerge from the forest. Each trail in Yellowstone passes through this unique ecosystem ruled by fire and snow, heat and ice, wildness at its most wild—a place like no other place on earth.



Photo: Karen Withrow

#804 DAY HIKING THE NORTHERN RANGE

Start: August 5 at 7 p.m.
End: August 8 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Julianne Baker, M.A.
Limit: 13 • \$325

Osborne Russell, a rare fur trapper who could read and write, wrote of the Lamar Valley: "I could spend the remainder of my days in a place like this where happiness and contentment seemed to reign in wild romantic splendor. . . ." You can still experience the seclusion and romance of Yellowstone. After an evening to review the basics of safe, comfortable, low-impact backcountry travel, you'll hit the trail, soaking up park history, wildlife, and wildflowers. Hikes range from 8 to 12 miles with 2000-foot elevation gains, so be ready to breathe lots of fresh mountain air. ☀

#805 THE WOLVES OF YELLOWSTONE

Start: August 6 at 9 a.m.
End: August 8 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Brad Bulin, M.S.
Limit: 13 • \$300

Are you intrigued by wolves and hungry to learn more? This course will satisfy even the biggest appetite for wolf knowledge and experience. You'll begin with a comprehensive overview of wolf evolution, behavior, communication, and predation. Then you'll learn about Yellowstone wolf restoration; how well the wolves are doing; and how they relate to prey species, scavengers, and other animals. In addition to some class time, you'll spend plenty of time in the field looking for wolves and prey, visiting the carcass of an animal killed by wolves, and exploring wolf habitat. ☀

#806 TRACKING THE HEAT

Start: August 8 at 7 p.m.
End: August 13 at 5 p.m.
Location: Old Faithful
Instructor: Lisa Morgan, Ph.D.
Limit: 13 • \$525

You've heard the story of Yellowstone's volcano, whether on TV or in books or at the Canyon Visitor Education Center. Now you can experience the story up close and in the field. Led by one of the leading experts on the volcano, you'll hike to locations rich with geologic evidence of the region's calderas and the Yellowstone hotspot. You'll learn to identify the rocks and their relationships to each other and to the calderas. Rooms will be held until 30 days prior to the course. Call 307-344-5566 for rates and reservations. ☀

#807 NEW! LAMAR WILDLIFE GETAWAY

Start: August 13 at 7 p.m.
End: August 17 at 9 a.m.
Location: Lamar Buffalo Ranch
Instructors: Brad Bulin, M.S. and Institute Staff
Limit: 24 • Minimum age: 12
\$770 - INCLUDES MEALS!

Unplug, settle in, and roll with the rhythms of late summer in Yellowstone. Each morning you'll head out to search for wildlife. As you scan and observe, you'll learn about the animals' behavior and where they fit in the Yellowstone scene. Each afternoon, explore more of wild Yellowstone on hikes highlighting what's special about this time of year. You can choose from two hiking options each afternoon, such as easy natural history rambles, hunts for animal sign, and hikes to historic wildlife locations. You'll also learn about wildlife from experts in the field and during evening programs. ☀

#808 NEW! HEART LAKE TO SOUTH BOUNDARY BACKPACK

Start: August 15 at 2 p.m.
End: August 20 at 5 p.m.
Location: Bozeman, Montana
Instructors: Jim Garry, M.S. and Patty Walton
Limit: 10 • \$720

Stuff your backpack with gear and get ready to explore the wild country south of Grant Village. You'll hike first to the remote and wildlife rich Heart Lake area. While camping there, you'll have the option to hike Mount Sheridan—a classic to-the-mountain-top hike that is much easier without your backpack. After leaving Heart Lake, you'll hike through remote country that includes the Washakie Range. Along the way, you'll pick up the Snake River and follow it to Yellowstone's South Entrance. Moderately to briskly paced hikes of up to 8 miles per day over sometimes rough and steep terrain. Elevation changes of 1000 feet per day are likely. ☀

#809 HOT SPRINGS, MUDPOTS, AND GEYSERS

Start: August 18 at 7 p.m.
End: August 21 at 4 p.m.
Location: Old Faithful
Instructor: Pat Shanks
Limit: 13 • \$325

Yellowstone has more than 10,000 hot springs, mudpots, and geysers. Why are they here? How do they work? You'll find these answers as a leading hydrothermal researcher guides you around geyser basins, mudpots, and other hydrothermal areas in the park. You'll learn about heat sources, volcanic gases, geyser eruptions, hydrothermal explosions, acid hot springs, and the millions of microbes that reside in them. You may even get to take temperature or pH measurements as you explore and come to appreciate fully why Yellowstone was set aside as our first national park. ☀

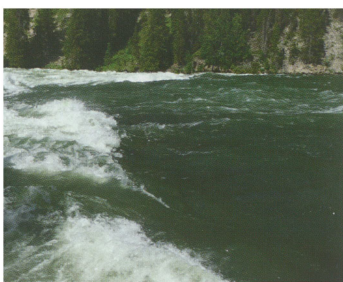
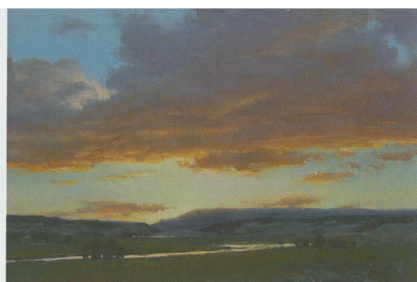


Photo: Karen Withrow



Painting: Aaron Schuerr



Photo: Luther Gammon



Photo: Karen Withrow

AUGUST FIELD SEMINARS

#810

NEW! LAMAR WILDLIFE GETAWAY

Start: August 19 at 7 p.m.
End: August 23 at 9 a.m.
Location: Lamar Buffalo Ranch
Instructors: Brad Bulin, M.S. and Institute staff
Limit: 24 • Minimum age: 12
\$770 – INCLUDES MEALS!

Unplug, settle in, and roll with the rhythms of late summer in Yellowstone. Each morning you'll head out to search for wildlife. As you scan and observe, you'll learn about the animals' behavior and where they fit in the Yellowstone scene. Each afternoon, explore more of wild Yellowstone on hikes highlighting what's special about this time of year. You can choose from two hiking options each afternoon, such as easy natural history rambles, hunts for animal sign, and hikes to historic wildlife locations. You'll also learn about wildlife from experts in the field and during evening programs. ☀

#811

ADVANCED FLY-FISHING FOR WOMEN

Start: August 27 at 9 a.m.
End: August 30 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Rhea Topping
Limit: 8 • \$440

Improve your fly-fishing skills in Yellowstone's world-class trout water. The first two mornings are spent studying the aquatic environment—insects (both real and imitations), trout behavior and species, conservation issues, knots, equipment, wading safety, catch-and-release fishing, etiquette, and fly presentation. There will be plenty of time to fish a wide variety of the park's rivers and streams, learning and refining advanced casting and fishing techniques. You will leave this class with the skills and confidence to fly-fish any trout water in the world. Be sure to purchase your Yellowstone National Park fishing licenses before the class. ☀

#812

CALLING YELLOWSTONE HOME: THE SHEEP EATERS

Start: August 28 at 9 a.m.
End: August 30 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Larry Loendorf, Ph.D.
Limit: 12 • \$300

In this class led by an expert on Yellowstone's native people, you'll explore the rich culture of the Sheep Eaters. You'll walk trails they traveled through Yellowstone on their annual hunting and gathering cycles, and you'll visit a site where their old travois poles still lean against the trees. See why Obsidian Cliff was so important to the Sheep Eaters and to other tribes throughout North America. Find out how their uses for bighorn sheep went far beyond simple sustenance. ☀

#813

THE ART OF PLEIN-AIR PAINTING

Start: August 31 at 9 a.m.
End: September 3 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Aaron Schuerr
Limit: 13 • \$400

Whether you are new to painting or an old hand, bring your paints and palette to Yellowstone. You'll learn to translate the complex beauty of the park into the visual language of art. Spend mornings and evenings painting outdoors—known as plein-air painting—when the shadows are long and the color is rich. During these field sessions and in the classroom, you'll discuss fundamentals of value, design, color, and planning larger studio paintings from plein-air studies. Instruction includes demonstrations in oil, pastel, and charcoal and is open to any medium. ☀

#814

FORCES OF NATURE: WOLVES AND FIRE

Start: August 31 at 5 p.m.
End: September 2 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jon Trapp, M.A.
Limit: 13 • \$225

Yellowstone's landscape began to change dramatically in the late 20th century when two natural forces were reintroduced: wild fires and wolves. You'll explore how they both affect flora and fauna and how fire affects elk and consequently wolves. Learn how the tribes associated with Yellowstone view fire and wolves. Discuss how wild fire and wolf management strategies continue to evolve. You will be up early and out late looking for wolves and wild fires. Be prepared for short hikes and time outdoors in any kind of weather. ☀

#815 **NEW!**

PROTECTING YELLOWSTONE'S GEOLOGIC RESOURCES

Start: August 31 at 7 p.m.
End: September 2 at 4 p.m.
Location: Gardiner, Montana
Instructor: Cheryl Jaworowski, Ph.D.
Limit: 13 • \$225

You probably know about the dangers we face from Yellowstone's hot springs and geysers. This is your chance to learn the other side of that story: the dangers we pose to them, and to the park's other wondrous geologic resources. From the safety of trails and boardwalks, you will work with a park geologist to document the health of Yellowstone's hydrothermal and paleontological resources. You'll also explore how volcanoes, earthquakes, glaciers, and other geologic forces formed the landscape we see today. You'll come away with a deeper knowledge of Yellowstone geology and how you can protect it. ☀

“Loved off-trail hiking—would not have done that type of hiking by myself—and saw so much more, plus learned about all these from the wonderful instructor.”



Photo: Bill Mahoney



Photo: YMCA



Photo: Stephanie Ripley



Photo: Karen Withrow



Photo: George Wuerthner

SEPTEMBER FIELD SEMINARS

BRING ON AUTUMN

Crowds: gone! Temperature: Perfect! Sunshine: Likely. Snow: maybe, but it melts fast. It's the perfect time to explore Yellowstone. As you enjoy this quiet season, you might want to consider . . . Food! That's what autumn is all about for many animals in Yellowstone. Swainson's hawks are busy training their young to hunt, getting ready for their long journey south. Butterflies crowd onto rabbitbrush, where late-season blooms provide a nectar bonanza. Bears dig, dig, dig—raiding the red squirrel's pine nut stashes, pulling up roots, and grabbing other protein-rich foods. They are fattening up for hibernation. Bison bulls, weak from their late-summer mating season, keep beards to the ground, grazing on grasses and sedges. They too need to be well-fed going into the lean months of winter. And bull elk will resume their grazing as soon as their raucous rut ends. What will you be eating this autumn?



Photo: Diane Simpson

#901 AUTUMN DAY HIKING IN YELLOWSTONE

Start: September 4 at 9 a.m.
End: September 6 at 4 p.m.
Location: Gardiner, Montana
Instructor: Gene Ball
Limit: 13 • \$300

Welcome to Yellowstone's autumn—a season full of changes, and discovery. You'll enjoy hikes chosen to feature this time of year and explore the park's phenomena, major features, wildlife issues, and history. At least one hike will take you into the high country, where you'll walk among the declining whitebark forests and discuss the impacts of beetles and blister rust and the direct effects on wildlife such as Clark's nutcrackers, red squirrels, and grizzly bears. The focus each day will be to hike and learn about other aspects of Yellowstone's incomparable beauty, subtlety, and complexity. *

#902 NEW! RAPTORS OVER YELLOWSTONE

Start: September 7 at 7 p.m.
End: September 9 at 4 p.m.
Location: Gardiner, Montana
Instructor: Katy Duffy, M.S.
Limit: 13 • \$225

It's a raptor time of year. Bring your lawn chair and make yourself comfortable while watching for birds of prey (raptors) flying overhead on their journeys south. You'll visit one of Yellowstone's valleys—such as Hayden Valley—where you might see individuals filling up on plentiful grasshoppers and small rodents. And you'll visit the official watch site of the Yellowstone Raptor Initiative, where you'll talk with raptor biologists. With any luck, you'll see eagles, osprey, and a variety of hawks and falcons. During the evenings, you'll have an opportunity to learn more about these raptors over Yellowstone. *

#903 NEW! THE SURPRISING PIKA

Start: September 8 at 9 a.m.
End: September 9 at 4 p.m.
Location: Cooke City, Montana
Instructor: Dan Hartman
Limit: 13 • \$200

Most Yellowstone mammals either migrate or hibernate when winter comes calling—but not the pika. In this field class, you'll be able to watch these appealing animals prepare for winter. You will likely hear their alarms before you see them. Once you settle down, though, you'll be able to watch them gather grass piece by piece to make piles of food for the winter. See them disappear when danger comes. And consider how these solitary animals live together in their colony. Rooms will be held at the Alpine Motel until 30 days prior to arrival. For rates and reservations, call 406-838-2262. *

#904 AUTUMN ON THE NORTHERN RANGE

Start: September 12 at 9 a.m.
End: September 14 at 4 p.m.
Location: Gardiner, Montana
Instructor: Jim Garry, M.S.
Limit: 13 • \$300

Explore Yellowstone's famous northern range during its lively autumn season, when you can see—and hear—what the elk are up to. This vast open area of Yellowstone is year-round habitat for many species. Through field trips and discussions, you'll find out how this landscape influences who lives here and what they do. Look for clues in the variations of geology, vegetation, and climate. You'll also travel through a couple thousand feet of elevation change—yet another factor in the variety of this vast land of wildlife. *

#905 NEW! AUTUMN PHOTOGRAPHY

Start: September 12 at 9 a.m.
End: September 15 at 4 p.m.
Location: Gardiner, Montana
Instructor: George Wuerthner
Limit: 12 • \$410

Bugling elk, glowing aspen, and frosty mornings provide the magic you need for exceptional photography in Yellowstone. You'll have the assistance of a photographer who knows the park well and will introduce you to its photographic opportunities. You'll focus on composing landscapes, capturing wildlife activity, and taking close-ups. Enjoy individual instruction in the field, and evening reviews and presentations. Our schedule will adapt to the weather, but you can expect to be out early to enjoy dawn's light and late enough to shoot post-sunset glows. *

#906 THE WOLVES OF YELLOWSTONE

Start: September 21 at 9 a.m.
End: September 23 at 4 p.m.
Location: Gardiner, Montana
Instructor: Brad Bulin, M.S.
Limit: 13 • \$300

Are you intrigued by wolves and hungry to learn more? This course will satisfy even the biggest appetite for wolf knowledge and experience. You'll begin with a comprehensive overview of wolf evolution, behavior, communication, and predation. Then you'll learn about Yellowstone wolf restoration; how well the wolves are doing; and how they relate to prey species, scavengers, and other animals. In addition to some class time, you'll spend plenty of time in the field looking for wolves and prey, visiting the carcass of an animal killed by wolves, and exploring wolf habitat. *

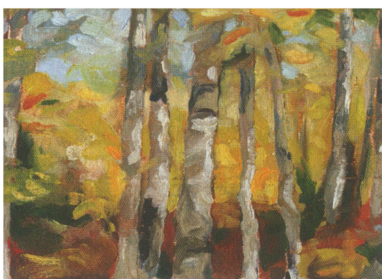


Photo: Suzie Garner



Photo: Karen Withrow



Photo: Meg Sommers



Photo: Karen Withrow

SEPTEMBER - OCTOBER FIELD SEMINARS

#907 **NEW!**

CAPTURING FALL COLORS IN YOUR TRAVEL SKETCHBOOK

Start: September 21 at 7 p.m.
End: September 23 at 4 p.m.
Location: Gardiner, Montana
Instructor: Suzie Garner, M.A., M.F.A.
Limit: 13 • \$225

Immerse yourself in the colors and patterns of autumn as you learn travel sketchbook and journaling techniques. You'll spend most of the time outdoors enjoying site-based lectures, demonstrations, and drawing time. Learn about the best materials for drawing on the move and how to sketch what you see. You'll explore line and color, pen and ink, and experiment with conveying life and character of the world around you. And you'll have a crash course in watercolor! Return home with a highly personal, visual journal that will help you remember details of sights and experiences that you might have missed or forgotten otherwise. ✨

#908

AUTUMN DAY HIKING IN YELLOWSTONE

Start: September 26 at 7 p.m.
End: September 29 at 5 p.m.
Location: Gardiner, MT
Instructor: Julianne Baker, M.A.
\$325 • Limit: 12

Autumn day hikes in Yellowstone enliven all of your senses. You'll hear the eerie sounds of bugling elk, smell the fragrance of aspens and cured grasses, feel the contrast of cold breezes and hot sun. As you hike through the park's backcountry, you may see bighorn sheep and migrating hawks, find moose along willow-filled creek beds, or spot the elusive coyote, wolf, and bear. Daily hikes will range from 8 to 12 miles with elevation gains up to 2000 feet, so come ready to enjoy Yellowstone's autumn and "breathe deep of that yet sweet and lucid air." ✨

Photo: Diane Simpson

#909

AUTUMN WILDLIFE WATCHING

Start: September 28 at 9 a.m.
End: September 30 at 4 p.m.
Location: Gardiner, Montana
Instructor: George Bumann, M.S.
Limit: 13 • \$300

Who's migrating and who's hunkering down? Which animals are still busy mating, and which have already gone underground? You'll spend three full days in the field observing as many species as possible, with the guidance of a seasoned wildlife biologist. You'll see how different animals deal with this transitional time and learn to recognize their patterns of behavior. Compare what you observe with what scientists have discovered about Yellowstone's wildlife, and engage in lively discussions about your experiences and those of other participants. ✨

#1001

AUTUMN WILDLIFE PHOTOGRAPHY

Start: October 2 at 9 a.m.
End: October 5 at 4 p.m.
Location: Gardiner, Montana
Instructor: Meg Sommers
Limit: 13 • \$415

Calling all beginning and intermediate photographers. Now is the time to learn tips for photographing Yellowstone's autumn wildlife action. You'll spend most of the day outdoors, finding out what animals big and small do and where they are—keys to finding them for your photos. You'll also practice photographic fundamentals, techniques, and the ethics of wildlife photography. In class sessions, you'll focus on composition, lighting, equipment, and computer skills. So pack your digital camera and tripod and head into Yellowstone's wild autumn. ✨

#1002

BECOME A CERTIFIED INTERPRETIVE GUIDE

Start: October 8 at 9 a.m.
End: October 11 at 4 p.m.
Location: Gardiner, Montana
Instructor: Jenny Golding, M.S.
Limit: 14 • \$370

Hone your interpretive skills in this professional certification course presented in partnership with the National Association for Interpretation (NAI). You'll receive coaching to make your programs enjoyable, relevant, and organized. You'll explore using tangible objects to connect audiences to intangible ideas and universal concepts while practicing your presentation and communication skills. To earn certification, you'll prepare a written outline of a ten-minute presentation, deliver the presentation, and complete an open book exam. All materials and certification and NAI fees are included in your tuition. ✨

"One of the best trips of my life! I have new knowledge and respect for this amazing place. I am also feeling renewed and inspired."



INSTRUCTOR PROFILES

EMILY STAGGS ALMBERG, PH.D. student, is a biological technician and research collaborator with the Yellowstone Wolf Project. She studies how infectious diseases affect individual animals and population dynamics. For her doctorate at Penn State University, she is focusing on how sarcoptic mange affects Yellowstone's wolf population.

MARY LIZ AUSTIN is a professional landscape photographer who strives to create an intimate relationship with her subject, whether a grand landscape or a nature portrait. Proficient in both large format and digital media, her work is featured in countless books, calendars, and magazines.

ORVILLE E. BACH JR., ED.D., is a familiar face at the Old Faithful Visitor Education Center, where he works each spring and fall as an interpretive ranger. He wrote *Exploring the Yellowstone Backcountry*, a popular hiking guide, and *Tracking the Spirit of Yellowstone: Recollections of Thirty-One Years as a Seasonal Ranger*.

JULIANNE BAKER, M.A., settled here after a career teaching environmental science. She was the first resident instructor for the Yellowstone Association Institute. A National Outdoor Leadership School graduate, she has earned certificates from the Wilderness Medicine Institute, National Association for Interpretation, Professional Ski Instructors of America, and Leave No Trace.

GENE BALL was director of the Yellowstone Association and Institute from 1985–88. He now lives in Cody, Wyoming, and teaches a wide range of topics and pursues other freelance projects for a variety of organizations throughout the West.

SHAUNA BARON is a biologist who has studied large and small carnivores. She worked with the Colorado-based Mission Wolf captive wolf program, the U.S. Fish and Wildlife Service Red Wolf Project, and as a volunteer for the Yellowstone Wolf Project. Shauna is a resident instructor for the Yellowstone Association Institute.

BRAD BULIN, M.S., is a wildlife biologist who has taught science at the K–12 and college levels and conducted extensive field research on carnivores, raptors, amphibians, and plants. He is a professional wildlife cinematographer who spends considerable time capturing Yellowstone on camera.

GEORGE BUMANN, M.S., can draw, sculpt, and teach about all aspects of Yellowstone. He has a degree in wildlife ecology and works as a professional artist and educator. His art and writing have appeared in popular and scientific publications, and his sculptures can be found in collections throughout the country.

MEREDITH E. CAMPBELL has taught drawing and painting to both adults and children for over 20 years. Her botanical and wildlife drawings and paintings have been published in books and magazines, and her paintings have gallery representation in Jackson Hole, Wyoming.

DANIELLE CHALFANT grew up within the borders of Yellowstone and has extensive experience in the park. She has worked for the National Park Service in Yellowstone as an interpretive ranger, backcountry trail crew leader, Yellowstone Center for Resources intern, and is now a resident instructor for the Yellowstone Association Institute.

SUE CONSOLO-MURPHY, M.S., is the Chief of Science and Resource Management for Grand Teton National Park, where she has begun innovative programs to protect grizzly bears and visitors from each other. Previously at Yellowstone National Park, she served on the grizzly conservation strategy team.

TERRY DONNELLY brings over 30 years experience to his teaching. His images are notable for their fusion of strong subject matter with revealing light. Terry's photography is featured in books, magazines, and calendars, and fine art prints of his photographs are in private and corporate collections across the country.

KATY DUFFY, M.S., identifies raptors on the wing and songbirds by sound. She is a licensed bird bander specializing in owls, hawks, and songbirds, and holds an ecology degree from Rutgers University. Now a Yellowstone park ranger, she has lived and worked in the Greater Yellowstone Ecosystem for three decades.

CRISTINA EISENBERG, PH.D. candidate, has studied wolf ecology in Glacier and Waterton Lakes national parks. She is research director for High Lonesome Ranch, and is currently conducting research in Alberta on fire, wolves, elk, and aspen. She wrote *The Wolf's Tooth: Keystone Predators, Trophic Cascades, and Biodiversity*.

SUZIE GARNER, M.A., M.F.A., leads the art department at Colorado-Mesa University, where she teaches art and graphic design. She has given field sketching workshops in several western national parks. Her work has been exhibited nationally and published in *1,000 Artist Journal Pages: Personal Pages and Inspirations*.

JIM GARRY, M.S., weaves natural history, human history, folklore, and myth into spellbinding stories. A naturalist and folklorist, he has spent most of the past four decades in the Yellowstone ecosystem. His books include *This Ol' Drought Ain't Broke Us Yet* and *The First Liar Never Has a Chance*.

JENNY GOLDING, M.S., has worked as an outdoor educator for the Appalachian Trail Conference, Student Conservation Association, and Virginia Tech. She is a certified interpretive trainer through the National Association for Interpretation and a master educator for Leave No Trace. Jenny is the director of education for the Yellowstone Association.

JIM HALFPENNY, PH.D., travels the world teaching about bears, wolves, and animal tracks. He produces educational books, computer programs, and videos. He coordinated the Long-Term Ecological and Alpine Research programs at the University of Colorado. His recent books are *Yellowstone Wolves In the Wild* and *Yellowstone Bears In the Wild*.

MARK HAROLDSON has studied and written about bears for more than 35 years. Recently he co-authored papers about long-term grizzly bear survival in the Yellowstone ecosystem and using DNA techniques to study grizzly bear immigration into Yellowstone. He is supervisory wildlife biologist for the USGS Interagency Grizzly Bear Study Team.

DAN HARTMAN lives on the northeast border of Yellowstone National Park, where he operates his gallery, Wildlife Along the Rockies, in Silver Gate. He specializes in photographing rare or elusive wildlife in their natural habitat. His photographs have been widely published in magazines such as *National Wildlife* and *National Geographic*.

HANNAH HINCHMAN teaches journal workshops around the country. Her work is included in Cathy Johnson's *Artist's Journal Workshop* and will appear in Danny Gregory's forthcoming book on travel journals. Her books include the award-winning *Little Things in a Big Country: An Artist and Her Dog on the Rocky Mountain Front*.

CHERYL JAWOROWSKI, PH.D., is a geologist for Yellowstone National Park. Her scientific research and interests include Yellowstone's volcano, glacial geology, geologic mapping, thermal infrared imaging of hydrothermal systems, and the evolution of the landscape. She has enjoyed hiking and skiing in the greater Yellowstone area for more than 20 years.

INSTRUCTOR PROFILES

LARRY LOENDORF, PH.D., studies the hunting and gathering cultures of Montana and Wyoming, contributing to the understanding of these cultures through his research, teaching, and writing. He wrote *Mountain Spirit: The Sheep Eater Indians of Yellowstone* and co-wrote *Restoring a Presence: American Indians and Yellowstone National Park* with Peter Nabokov.

MATT METZ, M.S., is a biological research technician for the Yellowstone Wolf Project. He studies wolf-prey relationships in Yellowstone National Park, with a focus on how seasonal variation in predator-prey dynamics influences predator and prey populations.

LISA MORGAN, PH.D., studies the geology and geophysics of volcanoes in and near Yellowstone as a research geologist for the U.S. Geological Survey. She focuses on caldera-forming eruptions, rhyolitic lava flows, hydrothermal explosions, and the geology of Yellowstone Lake. With Ken Pierce, she developed a model for the Yellowstone hotspot.

ROBIN PARK, M.A., is an archeologist for Yellowstone National Park. Her graduate thesis, *A Culture of Convenience? Obsidian Source Selection in Yellowstone National Park*, prepared her for her position. She studies Obsidian Cliff and other evidence of Yellowstone's earliest inhabitants, along with evidence left behind by more recent human explorers.

ROBIN PATTEN, PH.D., has been walking the backcountry of Greater Yellowstone from an early age, fostering her curiosity about the land and our relationship with it. She earned an M.S. in environmental writing and literature from the University of Montana and a Ph.D. in ecology from Colorado State University.

WAYNE PHILLIPS is a former U.S. Forest Service ecologist who teaches about the flora of the Rocky Mountains and Great Plains. He has taught for the Institute since the early 1980s. He wrote *Central Rocky Mountain Wildflowers*, *Northern Rocky Mountain Wildflowers*, and *Plants of the Lewis and Clark Expedition*.

HAROLD PICTON, PH.D., is emeritus professor of wildlife at Montana State University and studies herbivores, carnivores, and wildlife management history. He and his former graduate students have published more than 100 scientific papers, many of which deal with Yellowstone. He has also published two books and produced a television documentary.

LESLIE QUINN, M.ED., trains park bus tour guides, boat guides, and wranglers for the park concessioner Xanterra Parks & Resorts. As a historian, his interests include Yellowstone village history, the Howard Eaton Trail, and the maritime history of Yellowstone Lake. He contributes to *Yellowstone Science* and other park publications.

ANASTASIA ROY has worked as a naturalist guide throughout the United States and is currently a resident instructor for the Yellowstone Association Institute. She has taught both youth and adults in Denali, the Grand Canyon, and Yellowstone, and has worked extensively teaching and training naturalists with the Appalachian Mountain Club.

AARON SCHUERR captures the park's varied landscapes in luminous paintings. His art has been featured in *Southwest Art*, *The Pastel Journal*, and *Plein Air Magazine*, and has shown with the Pastel Society of America, the C.M. Russell Auction, and the American Impressionist Society.

PAT SHANKS has studied Yellowstone's hydrothermal systems as a geochemist with the U.S. Geological Survey since 1996. He has also studied hydrothermal vents and black smokers on the ocean floor. Pat was a professor at the University of Wisconsin and University of California–Davis before joining the U.S. Geological Survey.

MEG SOMMERS shares the beauty and grace of Yellowstone through her award-winning photographs. She visits the park and its environs in all seasons, photographing landscapes, wildlife, and wildflowers. She is also an enthusiastic naturalist, and brings her considerable knowledge of the area to the photo tours she leads.

ROBERT C. THOMAS, PH.D., teaches geology at the University of Montana Western. He co-authored geological road signs along the Lewis and Clark Trail and *Roadside Geology of Yellowstone Country*. His honors include the Geological Society of America Distinguished Service Award and the Carnegie Foundation U.S. Professor of the Year Award.

BRIAN THORPE, M.S., has been interpreting Yellowstone and Glacier national parks for visitors since 1988 for the National Park Service, Yellowstone National Park Lodges, and the Yellowstone Association Institute. He earned his masters degree in 2000 with a thesis project examining neotropical migrant birds in Yellowstone National Park.

RHEA TOPPING, a Federation of Fly Fishers certified Master Casting Instructor since 1997, runs angling trips and teaches fly-fishing worldwide. She is the author of *Rod Rage*, the first book on fly-fishing etiquette, and producer of several DVDs, including the best-seller, *The Double Haul*.

JON TRAPP, M.A., served as a wolf biologist for Montana Fish, Wildlife & Parks and has worked for wolf programs in Arizona, Idaho, and Wyoming. He earned his master's degree in conservation biology from Prescott College, with a thesis focusing on wolf-den site selection in the Northern Rockies.

NATHAN VARLEY, PH.D., is a natural and cultural historian specializing in the Greater Yellowstone Ecosystem, where he has lived most of his life. He has studied many of Yellowstone's large mammals. For his doctorate, he studied the effects of wolf restoration on the park's northern range elk herd.

PATTY WALTON has resided in the Yellowstone ecosystem for the past 20 years. She is an outdoor enthusiast who shares her passion when teaching safety, communication, and low-impact backpacking techniques through Leave No Trace principles. She is also a practicing paramedic and CPR instructor.

LEE WHITTLESEY, M.A., J.D., PH.D. (HON.), is Yellowstone National Park's historian. His recent books include *Ho! For Wonderland* and a long history of Mammoth Hot Springs, entitled *This Modern Saratoga of the Wilderness!: A History of Mammoth Hot Springs and the Village of Mammoth*, which will be published this year.

WILDERNESS MEDICINE INSTITUTE, an institute of the National Outdoor Leadership School (NOLS), has been a leader in wilderness medicine education since 1976. WMI provides all levels of wilderness medicine training for state and federal agencies, colleges, and outdoor programs throughout the West.

GEORGE WUERTHNER brings his passion for the outdoors and knowledge of ecology to his writing and photography. He has written dozens of books, including many in the "Visitors Companion" series of national park guides. As a former resident of the greater Yellowstone area, George is intimately acquainted with the park.



YELLOWSTONE
ASSOCIATION
INSTITUTE

P.O. Box 117
Yellowstone National Park, WY 82190

We are proud to announce that we have provided over \$27 million in cash and in-kind support for educational programs and projects in Yellowstone, thanks to people like you.

Two Ways You Can Help Yellowstone

Join Us! Become a Yellowstone Association Member

For as little as \$35 annually for a family membership, you'll join more than 33,000 individuals who also love America's first national park. Membership benefits include quarterly educational publications, discounts on Institute courses, retail discounts in locations throughout the park, and much more!

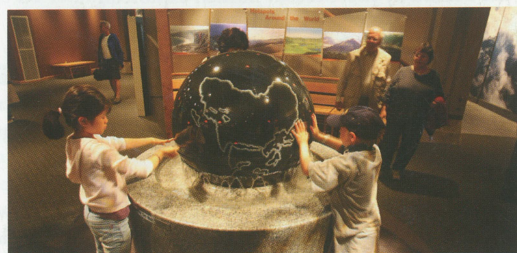
Buy Books and Gear From the Park Store

Our Park Stores are located throughout Yellowstone and on our website. They feature more than 900 books, maps, and videos to help you plan your visit. You'll also find a wide selection of shirts, hats, and other gear you can use in the field or at home to remind you of your time in Yellowstone.

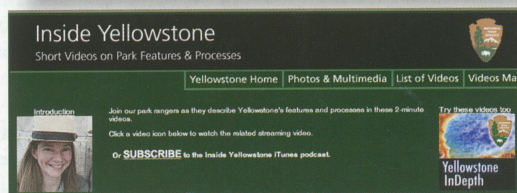
Proceeds from memberships and purchases are donated to the National Park Service to support research and education in Yellowstone, including visitor publications and state-of-the-art exhibits.

Some of the projects funded include:

- Visitor center, trail-side, and road-side educational exhibits: **\$1,467,319**



- Web videos and podcasts: **\$183,760**



- Printed materials for park visitors: **\$152,021**

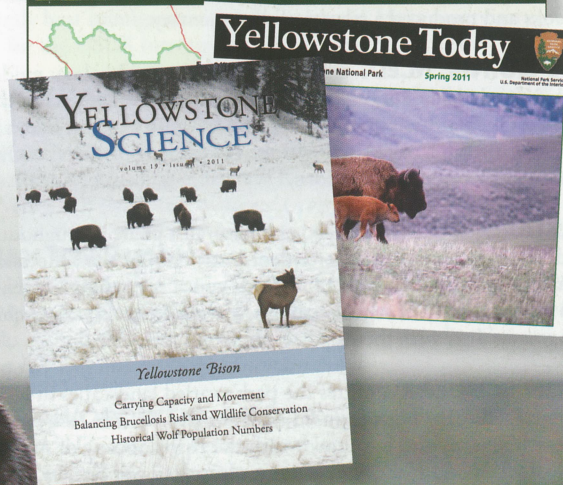


Photo: MacNeil Lyons Images