

SEE PAGE 8 FOR OUR
NEW EDUCATION FACILITY!



YELLOWSTONE
ASSOCIATION
INSTITUTE

EDUCATIONAL PROGRAMS * SUMMER 2010

Phillips / Reese
YI Collection



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

WELCOME TO THE YELLOWSTONE ASSOCIATION INSTITUTE

THE MISSION OF THE YELLOWSTONE ASSOCIATION

The Yellowstone Association, in partnership with the National Park Service, fosters the public's understanding, appreciation, and enjoyment of Yellowstone National Park and its surrounding ecosystem by funding and providing educational products and services.

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REGISTRATION INFORMATION

LODGING AND LEARNING

Registration is now open. One phone call is all it takes to arrange a learning vacation based at hotels inside the park and led by expert naturalist guides from the Yellowstone Association Institute. Rates are estimated per person and do not include taxes.

Call 866-439-7375.

PRIVATE TOURS

Register any time for your private tour with an Institute naturalist guide. Programs are based at the Yellowstone Overlook Field Campus in Gardiner, MT, or at various park hotels. **Call 406-848-2400.**

FIELD SEMINARS

Yellowstone Association member registration begins January 13, 2010, at 8 a.m. (MT) Registration for non-members begins January 20. **Register by phone at 406-848-2400** or online at **www.YellowstoneAssociation.org**.

For detailed information on our policies, please call 406-848-2400 or visit our website at www.YellowstoneAssociation.org.

COVER PHOTOGRAPHY: Bill Mahoney, Bridget Lyons, MacNeil Lyons Images, Terri Tipping, Rhea Topping.

SUMMER 2010 EDUCATIONAL PROGRAMS

WHICH OF OUR PROGRAMS IS RIGHT FOR YOU?

— LODGING AND LEARNING —

Lodging and Learning programs mix just the right amount of education and recreation on your vacation. You'll be based at park hotels and taught by Institute naturalist guides who are intimately familiar with Yellowstone. If you want a vacation package that covers almost all you'll need and provides fun and discovery, Lodging and Learning programs are for you. See page 4.

— PRIVATE TOURS —

Private Tours are educational programs that immerse you, your family, or other small group in Yellowstone's wonders. You choose the experience that best fits your group's itinerary and interest—whether it's a one-day tour or a combination of programs for a multi-day experience. Institute naturalist guides introduce you to Yellowstone, provide advice about making the most of your visit to the park, and lead you on your adventures. See page 9.

— FIELD SEMINARS —

Field seminars are educational experiences that go deep! Taught by researchers, field biologists, and other experts, field seminars focus on specific subjects, such as observing wolves, grizzly bears, and other wildlife; predator/prey relationships; the park's wide range of vegetation; and how to capture Yellowstone through illustrations. You'll be amazed at how much you can learn in one to four days. See page 10.

We offer two different settings for field seminars:

- Our Lamar Buffalo Ranch campus is based in the quiet northeast corner of the park, far from other development. You share a cabin with up to two other participants and prepare your own meals in the group kitchen. **LAMAR TITLES APPEAR IN BROWN.**
- Courses based in and around the park take advantage of vast learning opportunities throughout the Yellowstone region. You stay in hotels at various park locations and in gateway communities, and enjoy the restaurants and amenities of these areas during your learning experience. **REGIONAL TITLES APPEAR IN GREEN.**



Visit us on Facebook for last-minute availability, field sightings, course pictures, and more!

— NOW ON FACEBOOK! —

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 5,000 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. For the most precise information about each activity and/or the effects of Yellowstone's altitude or environment, please refer to your program details or call us at 406-848-2400.

 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 of up to 250 feet. Some off-trail hiking possible.

 Brisk hikes of up to 5 miles per day with occasional elevation gains up to 500 feet in undulating terrain. Some off-trail hiking possible.

 Brisk aerobic hikes of up to 8 miles per day with climbs up to 1,000 feet on dirt trails. Loose rocks, uneven footing, and off-trail hiking are possible. Good coordination is recommended.

 Brisk aerobic, destination-oriented hiking of up to 12 miles a day. Elevation changes of up to 2,000 feet on dirt trails or off-trail; loose rock, uneven footing, steep hillside traverses, and stream crossings are possible. Good coordination is required.

SUMMER 2010 LODGING AND LEARNING PROGRAMS

Experience the best of Yellowstone National Park with one of our award-winning Lodging and Learning programs. By day you'll explore Yellowstone with a fun and knowledgeable Institute naturalist guide from the Yellowstone Association, the official educational partner of the National Park Service. Each night you'll return to park hotels for excellent meals and comfortable accommodations provided by Xanterra Parks & Resorts®, the official concessioner for Yellowstone National Park hotels. All programs include expert instruction, breakfast and box lunches, in-park transportation, and optional evening programs by the National Park Service or Xanterra. Programs have a limit of 9 to 12 participants per session. The minimum age is 12 unless otherwise stated. Rates are estimated per person and do not include taxes. Members of the Yellowstone Association receive a \$10 discount per person.

SO HOW DOES THIS ALL WORK?

To register or for more information about Lodging and Learning programs, call Yellowstone National Park Lodges at 866-439-7375, 8 a.m. to 5 p.m. (MT), seven days a week. Programs fill fast so register early. A 50 percent deposit, payable by check or major credit card, is required within two weeks of registration.

You'll receive a confirmation with a student letter, clothing and equipment list, park entrance pass, and personal data forms to fill out and return right away. These help us get to know you better so we're prepared for your arrival.

You must pay the balance of 50 percent program cost 30 days prior to your arrival or your reservation will be cancelled.

You are responsible for transportation to and from the location where the program begins.

CANCELLATION AND REFUND POLICY FOR LODGING AND LEARNING PROGRAMS

Your deposit is fully refundable if you cancel at least 60 days prior to arrival. Cancellations made between 60 and 30 days prior to arrival will result in a penalty of 50 percent of the package cost. Cancellations made inside 30 days prior to arrival will result in a penalty of the total package cost. If we cancel, you will receive a full refund. We cannot make exceptions to the refund policy for any reason including, but not limited to, illness, travel delays, emergencies, or weather. We recommend that you purchase accident, baggage, and trip cancellation insurance through a travel agent or website such as www.TravelGuard.com. Travel insurance can help protect you against financial loss if you must cancel or interrupt your trip.



Photo: Nick Derene

BEST OF YELLOWSTONE

8 to **12** people

See the best that Yellowstone has to offer! Bring up to eight friends or family members to enjoy a private tour of Yellowstone designed to fit your interests and abilities. Enjoy geology, wildlife viewing, hiking, history, and family activities. You will be escorted by an expert naturalist guide and a personal driver in high style around the Grand Loop Road in a classic yellow bus, which features large windows and a retractable canvas top perfect for wildlife viewing. Each night you'll enjoy fine dining and the comfort and charm of our hotels. This is the classiest tour available in Yellowstone, so book your trip today! ☀

Dates:

June 27, July 25, August 22

Lodging:

*3 nights at Lake Hotel,
1 night at Old Faithful Snow Lodge,
1 night at Mammoth Hot Springs Hotel.*

Rates:

*\$2,119 Double Occupancy
\$2,684 Single Occupancy*

Limit:

*Minimum 5 people; Maximum 9
All ages welcome*



Photo: MacNeil Lyons Images



Photo: Stephanie Ripley



Photo: Nick Derene

SPRING WOLF AND BEAR DISCOVERY



This is your opportunity to delve into the world of Yellowstone's wolves and bears. You'll join an Institute naturalist guide for sunrise trips in Yellowstone's northern range to look for these charismatic carnivores. During the day, you'll take leisurely hikes in their habitat, learning about their behavior, ecology, and conservation. And throughout, you'll be immersed in the beauty and wonders of Yellowstone in the spring. Your program fee includes dinner the last night. ☀

Dates:

3-day programs offered May 14, 17, 20, 23, 26, 29, June 1, 4

Lodging:

4 nights at Mammoth Hot Springs

Rates:

\$619 Double Occupancy
\$843 Single Occupancy

ESSENTIAL YELLOWSTONE



Experience Yellowstone during one of two intriguing seasons, spring or autumn. In either season, an Institute naturalist guide leads you on explorations to find the hidden secrets and sights of the park. You'll enjoy wildlife watching in the Hayden Valley, walking along the rim of the Grand Canyon of the Yellowstone River, and touring the heart of the Yellowstone volcano. Each evening, you can spend time at "geyser central"—the Old Faithful area—where you'll be staying at the cozy Old Faithful Snow Lodge. Your program fee includes dinner the last night. ☀

Dates:

4-day programs offered May 9, 16, September 19, 26, October 3, 10, 17

Lodging:

5 nights at Old Faithful

Rates:

\$1,039 Double Occupancy
\$1,542 Single Occupancy

OLD TIMES ON THE GRAND TOUR



Take the famous and historic Grand Tour of Yellowstone in the same high style as visitors of a bygone era. You'll travel with an Institute naturalist guide in one of the park's classic yellow buses, which features large windows and a retractable canvas top perfect for wildlife viewing. Your guide will escort you to cultural sites from Yellowstone's past and on walking tours of historic and thermal areas. Enjoy the spontaneity of a Yellowstone tour, too, by stopping when wildlife watching opportunities arise. To complete each day of history and sightseeing, you'll stay overnight in three historic areas—Mammoth, Old Faithful, and Lake. ☀

Dates:

5-day program offered May 23, 30, September 5, 12

Lodging:

2 nights each at Mammoth Hot Springs, Old Faithful Snow Lodge, Lake Hotel

Rates:

\$1,549 Double Occupancy
\$2,087 Single Occupancy

TRAILS THROUGH YELLOWSTONE



Lace up your hiking boots and sling on your backpack for four days of hiking, wildlife viewing, and discovery in the world's first national park. You'll be led by an Institute naturalist guide on carefully chosen hikes to explore Yellowstone's diverse landscapes throughout the park, from the geyser basins around Old Faithful to the Grand Canyon of the Yellowstone River. Search for elk, bison, grizzly bears, wolves, and other species on a sunrise wildlife viewing expedition. Be prepared for exciting hikes each day in this active program. Hikes vary from one year to the next, so be prepared to enjoy new trails. ☀

Dates:

4-day programs offered Monday to Friday from May 31 to September 27

Lodging:

2 nights at Mammoth Hot Springs
2 nights at Grant Village

Rates:

\$719 Double Occupancy
\$976 Single Occupancy

YELLOWSTONE FOR FAMILIES



Experience the magic of Yellowstone with this unique learning adventure for families with children 8–12 years old. Led by an Institute naturalist guide, your family can explore canyons, waterfalls, and geyser basins. Enjoy activities together, including animal tracking, wildlife watching, photography, painting, and hiking. During the program, your children can become Yellowstone National Park Junior Rangers. ☀

Dates:

4-day programs offered Monday to Friday and Friday to Tuesday from June 7 to August 20

Lodging:

Mammoth Hot Springs or Grant Village

Mammoth Rates:

\$639 Double Occupancy
\$863 Single Occupancy
\$389 Each Child

Grant Rates:

\$709 Double Occupancy
\$999 Single Occupancy
\$389 Each Child

"I had a beautiful view out of my cabin window, and slept with the curtain open, so I could wake to the beauty."

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



Photo: Nick Derene

FALL WOLF AND ELK DISCOVERY



This is your opportunity to delve into the world of Yellowstone's wolves and elk. You'll join an Institute naturalist guide for sunrise trips to look for these charismatic mammals. Elk should be easy to find—they are gathered for their annual rutting season, which is full of drama. Wolves are more elusive in the fall, but with an insider's advantage you'll have a good chance to see them. During the day, you'll take leisurely hikes in elk and wolf habitat, learning about their behavior, ecology, and conservation. Your program fee includes dinner the last night. ☀

Dates:

3-day programs offered August 26, September 1, 7, 13, 19, 25, October 1, 7

Lodging:

4 nights at Mammoth Hot Springs

Rates:

\$619 Double Occupancy
\$843 Single Occupancy

ROOSEVELT RENDEZVOUS



The historic Roosevelt Lodge sits in the center of Yellowstone's northern range, where you can enjoy the arresting bugle of bull elk among the fall colors of aspen, willow, and cottonwood. During the day, you'll be able to choose from a variety of exciting full- and half-day field trips, including many new selections. Learn how to capture the fall colors in photographs; discover the stories that animal tracks can tell; search for wolves; enjoy strolling in the Yellowstone volcano or tackle a challenging hike. At night, we convene in the main lodge for buffet-style dinners and entertaining evening programs. You'll stay in rustic but comfortable individual guest cabins. Each program has a limit of 52; daily field trips are in small groups. ☀

Dates:

4-day programs offered September 10, 14

Lodging:

4 nights in private cabin, with bathroom facilities nearby

Rates:

\$679 Double Occupancy
\$813 Single Occupancy



Photo: Bill Mahoney

OUR LOCATIONS

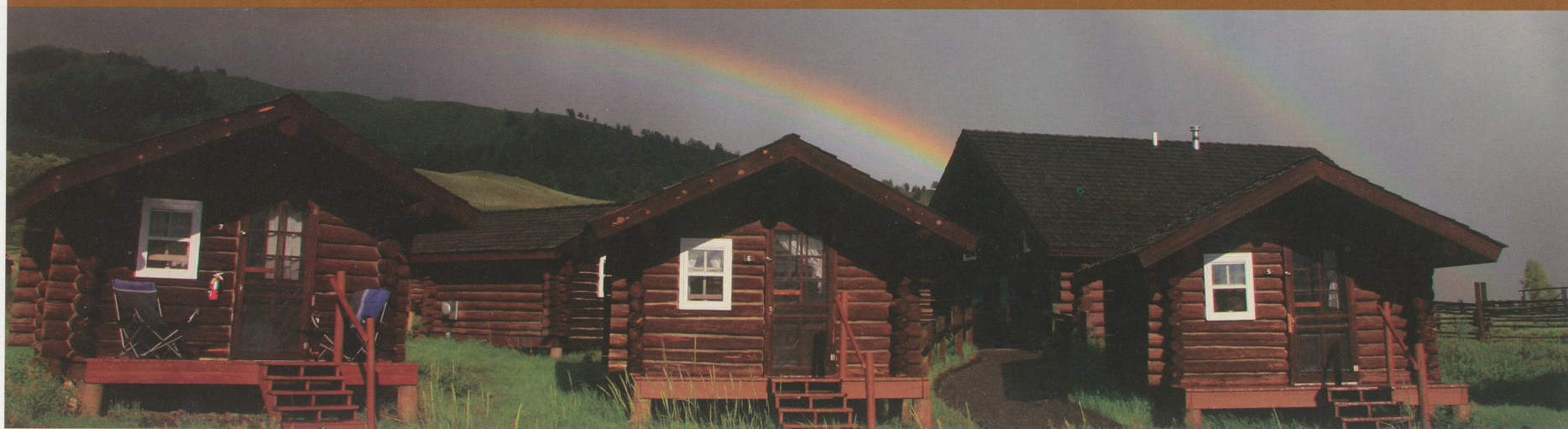


Photo: Karen Withrow

LAMAR BUFFALO RANCH FIELD CAMPUS

IS THIS CAMPUS RIGHT FOR ME?

Far from other development, the Buffalo Ranch in Yellowstone's quiet northeast corner offers comfortable lodging in a remarkable wilderness setting. You will enjoy cozy log cabins with propane heaters, a bathhouse with private showers, and a common building with fully equipped kitchen and classrooms. You cannot camp at the Buffalo Ranch, and you cannot bring pets—but service animals are allowed. You are responsible for transportation to and from the Lamar Buffalo Ranch. The ranch is primarily used for field seminars but is available for private group educational programs from November to March. If you are interested in a group program at Lamar from November to March, call us at 406-848-2400 for more information.

SO HOW DOES THIS ALL WORK?

When you arrive at the ranch, an Institute staff person will greet you and orient you to the facility. You'll share a cozy log cabin with up to two other classmates. The bathhouse has private showers and a heated floor. The bunkhouse will serve as the base of operations for your class. You'll develop a sense of camaraderie as you and your classmates prepare meals in the kitchen, enjoy outings on your course, and watch sunsets from the porch back at the ranch. Spotting scopes at the ranch are perfect for wildlife watching after dinner. At night, you may hear coyotes barking, wolves howling, or even the hooves of a bison wandering through the campus. Lamar is "off the grid" and away from cell phone towers, so this is your chance to unplug and reconnect with the natural world.

FIELD SEMINAR LODGING RATES

\$30 per night per person

PRIVATE TOUR LODGING RATES

\$780 per night for up to 26 people

OUR LOCATIONS

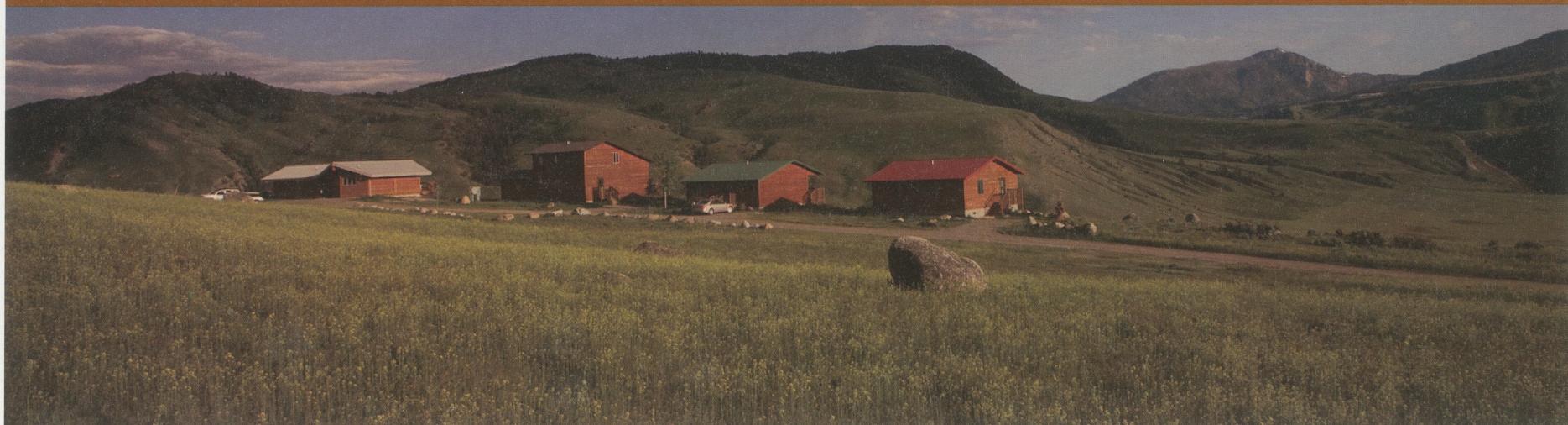


Photo: Yellowstone Association

YELLOWSTONE OVERLOOK FIELD CAMPUS

IS THIS CAMPUS RIGHT FOR ME?

We're excited to announce our brand new field campus, the Yellowstone Overlook. Opening May 1, this new facility will allow us to better serve groups. The Overlook is perfect for student and alumni groups, family gatherings, birding clubs, or any small group that would like an educational experience in Yellowstone. With its comfortable cabins and close proximity to the park and the gateway community of Gardiner, the Yellowstone Overlook Field Campus offers guests a private Yellowstone sanctuary and educational experience near modern conveniences. The campus is located 1.5 miles above Gardiner, Montana, on the Jardine Road. This 80-acre campus is situated on the border of Yellowstone National Park and features outstanding views of the Mammoth Hot Springs terraces and surrounding mountains. You might see bison, deer, elk, and wolves from the cabins.

PRIVATE TOUR LODGING 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

See our Private Tours on page 9 for daily program options and tuition rates.

SO HOW DOES THIS ALL WORK?

Choose the cabin that will best fit your group. The large cabins each have three bedrooms and can accommodate up to 12 people. The small cabin has two bedrooms and can accommodate up to 5 people. Rent all three cabins for large groups. Then pick your daily tour options from page 9. Call our information specialists and we'll help you set up your learning vacation. The Overlook is available year-round but is only available to people attending our educational programs.

When you arrive at the Overlook, our campus host will meet you and orient you to the facility. You can check in between 4 and 8 p.m. the day of your arrival. You must check out by 9 a.m. the day of your departure. You prepare your own meals in our spacious kitchens. Each day, you'll head in to the park for a Private Tour with our experienced naturalist guides. In the evenings, enjoy group dinners and star gazing from the deck. During your free time, take advantage of our educational libraries or take a hike along the Yellowstone River.

SUMMER 2010 PROGRAMS FOR PRIVATE GROUPS

PRIVATE TOURS are educational programs that immerse you, your family, or other small group in Yellowstone's wonders. Choose from the four programs listed below to best fit your itinerary and interests: one for a day-long experience or several for a multi-day program. Days will be tailored to your group's activity level and will include an optional walk or hike. 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 expert instruction, transportation for the day, snacks, and use of high-power spotting scopes and binoculars. We'll also help your children work on their Junior Ranger badge! Meals and lodging are not included. Facilities inside the park may not open before 8 a.m., so be prepared to have all meals ready the day before each program.

WILDLIFE WATCHING ON THE NORTHERN RANGE

Start: 6 or 8 a.m. at Gardiner or Mammoth, 6:30 or 8 a.m. at Roosevelt or Lamar

Discover the diverse and abundant wildlife of Yellowstone's northern range. Learn how to search for wildlife and how to use binoculars and spotting scopes effectively.

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 Yellowstone Lake area and the spectacular Grand Canyon of the Yellowstone River. Search for wildlife in the bison-rich Hayden Valley, and learn about the Yellowstone volcano on easy geology strolls.

GEYSERS, MUDPOTS, AND HOT SPRINGS: OLD FAITHFUL AREA

Start: 8 a.m. at Gardiner, Mammoth, or Norris; 9:30 a.m. at Madison or Old Faithful

From the center of the world's greatest concentration of hydrothermal features, take an in-depth look at how they form and why they do the things they do. You'll travel on boardwalks and easy trails, observing geologic features that reveal the wonders of Yellowstone's volcano.

DAY HIKING IN YELLOWSTONE

Start: 8 a.m. at Gardiner, Mammoth, Canyon, Lake, or Roosevelt; 9:30 a.m. at Madison or Old Faithful

Travel Yellowstone on carefully chosen hikes that show you the park's diverse landscape. Learn the basics of safe, low-impact backcountry travel in grizzly country with an experienced Institute naturalist guide. Hikes are selected to match your group's ability level and interests.

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, 2010.

- See page 8 for group lodging options at our Yellowstone Overlook Field Campus.
- Other options for your private group include backpacking and Lodging and Learning programs.

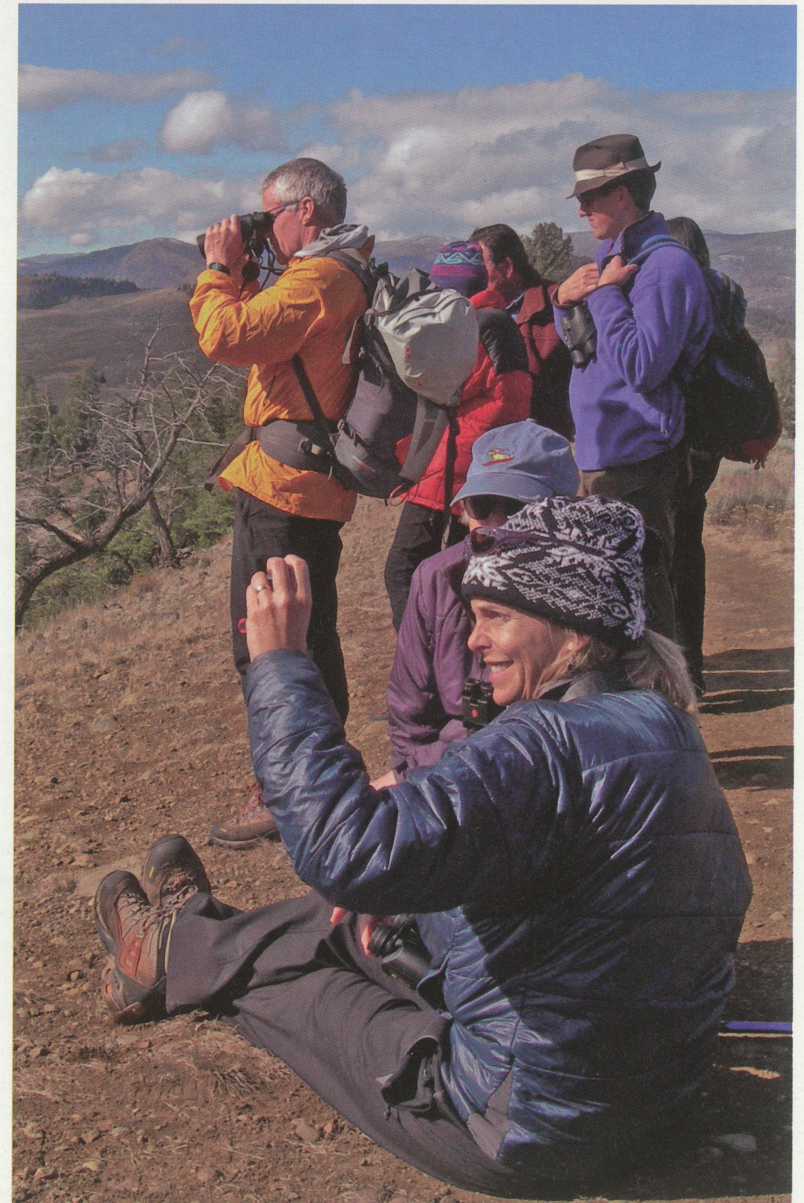


Photo: Bill Maboney

FOR MORE INFORMATION, PLEASE CALL: 406-848-2400

Members of the Yellowstone Association receive a \$10 discount.

FIELD SEMINARS

Enjoy focused educational experiences that closely examine individual aspects of the Yellowstone ecosystem. You'll learn about the park through the eyes of an animal tracker, a wolf biologist, a photographer, a geothermal scientist, and other noted experts, with just the right combination of field excursions and classroom presentations.

Courses are based at our Lamar Buffalo Ranch and at park hotels throughout the Yellowstone region. For courses based at the ranch, you can sign up for your cabin when you enroll in your course. **LAMAR TITLES APPEAR IN BROWN.**

For multi-day courses based at hotels inside the park, we have set aside a block of rooms that will be held until 30 days prior to the course. Call 866-439-7375 for rates and reservations. You are responsible for booking your own rooms and for transportation to and from your course location. You are also responsible for arranging for your own meals. Often meals are enjoyed as a group, sometimes out in the field. **REGIONAL TITLES APPEAR IN GREEN.**

Please remember that these courses are for adults. Children over 15 may attend if accompanied by an adult. For most field seminars, you will need basic day-hiking supplies such as trail food, water, sunscreen, rain gear, daypack, plus notebook and pen or pencil. If you are a member of the Yellowstone Association, you'll receive a \$10 tuition discount.

SO HOW DOES THIS ALL WORK?

Before you register, find out more details about the courses that interest you by reading the student letters. They contain detailed agendas, special equipment you'll need, and books or articles you might want to read in advance. To view course letters, go to www.YellowstoneAssociation.org, click on "Take a Class," then "Field Seminars," then "View Course Calendar."

When you are ready to register, or if you need more information about a field seminar, call us at 406-848-2400, 8 a.m. to 4:30 p.m. (MT), Monday through Friday or visit us online at www.YellowstoneAssociation.org. Courses fill fast, so register early. Full payment is required at the time of registration. Online course requests are not final until confirmed by our registrar.

After you register, you will receive a confirmation letter, park entrance pass, and personal data forms. You need to fill out and return the forms right away; they help us get to know you better so we are prepared for your arrival.



Photo: MacNeil Lyons Images

CANCELLATION AND REFUND POLICY FOR FIELD SEMINARS

Payments are fully refundable, less a \$35 per course processing fee, if you cancel at least 60 days before the course. Tuition and cabin fees are non-refundable for cancellations received fewer than 60 days before the start of the course, unless your space can be filled. If we can fill your space, a refund will be made, less the course processing fee. As an alternative, we can credit your tuition and cabin fees to another course of the same type offered before October 1, 2010, on a space-available basis. We reserve the right to cancel a course up to 30 days before the first class day. If we cancel, you will receive a full refund. We regret that the Institute cannot make exceptions to the refund policy for any reason, including but not limited to illness, travel delays, emergencies, or weather. We urge you to purchase accident, baggage, and trip cancellation insurance through a travel agent or website such as www.TravelGuard.com. Travel insurance can help protect you against financial loss if you must cancel or interrupt your trip.

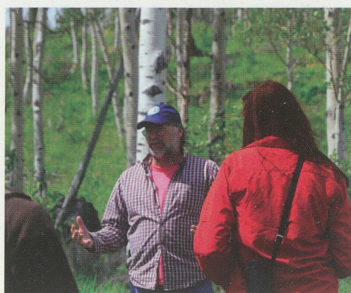


Photo: Karen Withrow



Photo: Diane Simpson



Photo: Bill Mahoney



Photo: Stephanie Ripley

#401 NEW! **CERTIFIED** **INTERPRETIVE** **GUIDE TRAINING** **WORKSHOP**



Start: April 27 at 9 a.m.
 End: April 30 at 4 p.m.
 Location: Gardiner, MT
 Instructor: Jenny Golding, M.S.
 \$370
 Limit: 13

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 10-minute presentation, deliver the presentation, and successfully complete an open-book exam. Class fee includes all materials and certification and NAI fees. ☀

#402 BIRDS ON **THE MOVE**



Start: April 30 at 7 p.m.
 End: May 2 at 4 p.m.
 Location: Gardiner, MT
 Instructor: Terry McEneaney
 \$225
 Limit: 9

During this weekend, you can join the celebration of International Migratory Bird Day right here in Yellowstone. Find out which of Yellowstone's summer avian residents have migrated from Mexico or Central and South America, and which birds have shorter migrations. You'll also see species passing through, with a long way to go to their summer homes. Search for these winged travelers from Yellowstone's subalpine country to its lowland foothills with the ornithologist who began the Yellowstone International Migratory Bird Count in 1993. Along the way, you'll compare and contrast data collected throughout the years and add your own observations to this important international data set on this special migratory bird weekend. ☀

#501 WILDLIFE **WATCHING** **IN GRIZZLY** **COUNTRY**



Start: May 3 at 1 p.m.
 End: May 6 at 9 p.m.
 Location: Gardiner, MT
 Instructor: Gene Ball
 \$400
 Limit: 13

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 INTO THE **BEAR'S DEN**



Start: May 15 at 8 a.m.
 End: May 15 at 5 p.m.
 Location: Gardiner, MT
 Instructor: Kerry A. Gunther, M.S.
 \$100
 Limit: 13

The bears are awake and away from their dens—a great time to explore where they've spent the winter. You'll begin with a classroom overview of bear denning behavior and hibernation physiology, then hike to an unoccupied bear den. Along the way and during lunch, you'll discuss bear behavior, food habits, habitat use, predation, bear-human interactions, and nuisance-bear management. Be prepared for a 4-mile hike that begins with a strenuous, extremely steep section. ☀

#503 WE ARE **NOT FOOLS YET!** **CROW TRIBAL** **CULTURE AND** **YELLOWSTONE** **NATIONAL PARK**



Start: May 24 at 7 p.m.
 End: May 26 at 4 p.m.
 Location: Lamar Buffalo Ranch
 Instructor: Timothy P. McCleary, Ph.D.
 \$225
 Limit: 13

In this class led by an anthropologist for the Crow tribe, you will examine the importance of Yellowstone National Park to Crow people historically and today. Through a combination of classroom sessions and field trips to critical cultural sites, you will learn about the origins and history of Crow people, the Crow explanation of how natural features within Yellowstone National Park were created, child rearing and training, hunting and warfare, and historic and contemporary Crow beliefs and practices in Yellowstone National Park. ☀

m+wayne

*"The Yellowstone ecosystem as a classroom cannot be surpassed.
 One must sit in it, breathe it, and feel it to understand and appreciate its value."*

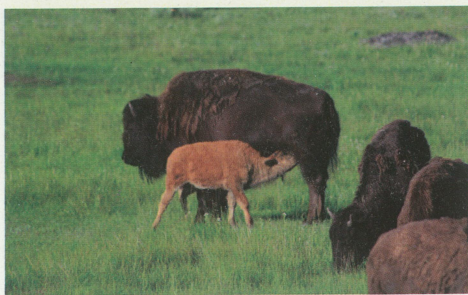


Photo: Karen Withrow



Photo: Dave Syfert



Photo: Bill Mahoney



Photo: Stephanie Ripley

#504 **NEW!** SPRING WILDLIFE WATCHING



Start: May 25 at 9 a.m.
End: May 27 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: George Bumann, M.S.
\$300
Limit: 13

Who's waking up, giving birth, or landing back in Yellowstone after winter "abroad"? You'll spend three full days in the field observing wildlife with a seasoned wildlife biologist. Enjoy the antics of bison calves and ground squirrels; look for wolves; watch bears and coyotes search for still-hidden elk calves; and maybe see returnees such as sandhill cranes and peregrine falcons. Observe how 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. ☀

#505 WILDERNESS FIRST AID



Start: May 27 at 8 a.m.
End: May 28 at 5 p.m.
Location: Gardiner, MT
Instructor: Wilderness Medicine
Institute Staff
\$240
Limit: 30

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 BEHIND THE SCENES OF WOLF MANAGEMENT AND ECOLOGY



Start: May 27 at 5 p.m.
End: May 29 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jon Trapp, M.A.
\$225
Limit: 13

Step into the shoes of wolf biologists to better understand carnivore ecology and the complexity of wolf management. What effects have wolves had on coyotes, grizzlies, cougars, ravens, and vegetation in Yellowstone? What happens to wolves when they leave the protection of the park? What will happen now that wolves are no longer on the list of endangered species? You'll view wolves in the wild, visit original reintroduction sites, and delve into the ecology, politics, economics, and mythology of this keystone predator. Be prepared for time outdoors in cold, wet weather. ☀

#507 MOOSE ECOLOGY



Start: May 29 at 8 a.m.
End: May 30 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Dan Tyers, Ph.D.
\$225
Limit: 13

Of all the major wildlife that people want to see in Yellowstone, the moose is among the largest—and hardest to find. Find out why they are so seldom seen by exploring some of the best moose habitat in Yellowstone—the northeast corner of the park. As you enjoy short hikes, you'll find out why moose live in this area, how scientists study these large animals, what they have discovered, and what moose issues face park managers. In the classroom, you'll learn more about this elusive animal and its natural history—and its future in Yellowstone. Be prepared for short hikes in cold, wet weather. ☀

#508 **NEW!** THE SAGA OF THE YELLOWSTONE ELK



Start: May 30 at 9 a.m.
End: June 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Terry Enk, Ph.D., and
Harold Picton, Ph.D.
\$360
Limit: 12

Biology and history combine to tell the amazing story of Yellowstone's elk herds. Learn how elk nearly went extinct in North America, the role they played in an expansion of Yellowstone National Park, and why they were the center of controversy for decades. Let experts on the subject explain how grizzlies impact Yellowstone's elk today and how the wolf reintroduction has affected the park's herds. Field trips to geothermal sites will help illustrate how Yellowstone's unique geology offers both opportunities and dangers for this popular park mammal, and how the geothermal areas impact elk ecology. ☀

"I learned so much and had the time of my life doing it. It was just a superb experience on every level. This was the best instructor I've ever had."



Photo: Karen Withrow



Photo: Diane Simpson

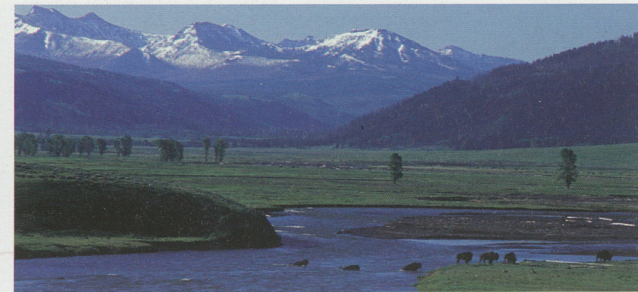


Photo: Tom Murphy

#509 MAMMAL SIGNS: INTERPRETING TRACKS, SCAT, AND HAIR



Start: May 31 at 9 a.m.
End: June 3 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$415
Limit: 13

Mammals are elusive and hard to observe in the wild, but you can discover their behavior in the signs they leave behind. Through illustrated lectures and laboratories, you'll learn about natural history, ecology, anatomy, gaits, track averaging, relative size, estimating track age and speed, print identification, finding clues, and following trails. During afternoons in the field, you'll put your learning into practice as you explore animal behavior by reading the stories that tracks tell. ☀

#601 WOLVES OF THE PAST, PRESENT, AND FUTURE



Start: June 4 at 9 a.m.
End: June 6 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: James Halfpenny, Ph.D., and Jim Garry, M.S.
\$370
Limit: 12

Discover a uniquely broad view of wolves from their evolutionary origins to interpretation of their sign to compelling renditions of classic wolf tales. In lectures and the field, you'll learn about wolf evolution, ecology, and management from carnivore ecologist Dr. James Halfpenny and the rich cultural history of wolves from folklorist Jim Garry. During field trips, you'll look for these magnificent canids and learn more about their restoration to Yellowstone. ☀

#602 LEARNING BIRDS BY SOUND



Start: June 4 at 7 p.m.
End: June 6 at 3 p.m.
Location: Gardiner, MT
Instructor: Terry McEneaney
\$225
Limit: 9

Challenge your birding skills by undertaking identification not with binoculars or field guides, but with your ears. Learn to identify bird songs, calls, chip notes, vocal clucks, quivering, fluttering, gaping, and even flying noises. Using intense concentration, you'll focus on the sounds of 30 species to form a sound learning foundation, and you will learn approximately 20 more species. You'll spend most of your time in the field developing these difficult but rewarding skills. ☀

#603 GRIZZLIES: FROM DUMPS TO RECOVERY



Start: June 4 at 7 p.m.
End: June 6 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Mark Haroldson and Sue Consolo Murphy, M.S.
\$270
Limit: 12

Spring is a time 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 classroom discussions about the natural and cultural history of grizzlies and their current status and threats. Explore reasons why grizzlies were removed from the federal list of threatened species, and why they were ordered back under federal protection. ☀

#604 NEW! A DAY WITH TOM MURPHY: PHOTOGRAPHIC COMPOSITION



Start: June 12 at 9 a.m.
End: June 12 at 4 p.m.
Location: Gardiner, MT
Instructor: Tom Murphy
\$100
Limit: 40

Aspiring and experienced photographers alike won't want to miss this opportunity to learn about nature and wildlife photography from one of Yellowstone's most renowned photographers. This classroom-based workshop features discussion and lecture on photographic composition through slides of Tom Murphy's award-winning work, as well as a critique of participants' photos. Tom offers rare insight into the joys and challenges of photography in the backcountry through tales of his journeys into the depths of Yellowstone. Learn to use photography to capture the essence and splendor of Yellowstone. A public slideshow and book-signing will follow at 7 p.m., showcasing Yellowstone's seasons through Tom Murphy's work. ☀

"This class was indeed a highlight of my outdoor life. You helped me realize that I stopped paying attention to the little things, and I stopped absorbing the role every critter plays telling the story I should be reading when I'm on the mountain."

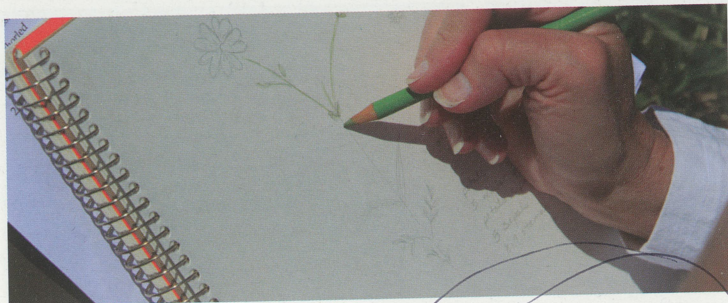


Photo: Karen Withrow



Photo: Sandra Nykerk



Photo: Terri Tipping



Photo: MacNeil Lyons Images

#605 WOLVES— REALITY AND MYTH



Start: June 12 at 7 p.m.
End: June 14 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Nathan Varley, Ph.D.
\$225
Limit: 13

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 your own relationship with wolves, how it may relate to various myths about wolves, and how it relates 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. 🌟

#606 PLANTS OF YELLOWSTONE'S INDIAN PEOPLE



Start: June 14 at 9 a.m.
End: June 16 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Wayne Phillips
\$300
Limit: 13

For centuries people came to Yellowstone to gather the plants they needed for food, medicine, fiber, dyes, and ceremonies. You'll learn how these plants were used and how to identify them. And you'll search for them in Yellowstone's dry sagebrush valleys, lush mountain meadows, and coniferous forests. You won't be able to collect the plants, but you'll learn what they look like, what habitat they require, and how they were used by Shoshone, Bannock, Crow, Nez Perce, Blackfeet, and other tribal people. 🌟

#607 NATURE PHOTOGRAPHY IN YELLOWSTONE: THE DIGITAL IMAGE



Start: June 14 at 6:30 p.m.
End: June 18 at 4 p.m.
Location: Gardiner, MT
Instructor: Sandra Nykerk
\$435
Limit: 12

With the diverse photographic opportunities in Yellowstone National Park as inspiration, you'll integrate the various aspects of digital photography into your photographic skill set. Learn the digital lexicon and explore the digital workflow from pixels to prints, including the differences between film and digital cameras and techniques of image editing and adjustment. You'll have time to practice these new digital skills both in the field and in the classroom. Bring a digital SLR camera with which you are familiar. You should also understand basic photographic principles and theory. 🌟

#608 MAP, COMPASS, AND GPS ACROSS YELLOWSTONE



Start: June 15 at 8:30 a.m.
End: June 17 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$230
Limit: 13

A sliver of metal that points north changed the world, and satellites are changing the way we navigate. Discover the fascinating history of navigation while learning these life-saving techniques yourself. Learn to use the sun and stars, a compass, and a GPS unit to guide your way. Make your own compass, and then map the Buffalo Ranch. Learn about the Global Positioning System (GPS), then navigate to specific points using a GPS unit. Find out how to convert your information into a topographic map and why topographic contours and other map details help biologists study Yellowstone's wildlife. 🌟

#609 NEW! THE WORLD OF OWLS



Start: June 17 at 9 a.m.
End: June 19 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Dan Hartman
\$300
Limit: 13

Grab your binoculars and canteen and follow expert Dan Hartman into the woods to explore the seldom-seen world of Yellowstone's owls. Learn about the park's eight owl species from slide shows and from BBC and National Geographic wildlife films for which Dan has guided. Venture into the forest to visit past owl nests, get a feel for owl habitat, and look for evidence owls have returned. What species share owl habitat, and what species do owls prey upon? Enjoy morning and evenings spent in the field, walking less than a mile at a time, exploring and looking for signs. Midday discussions will focus on the day's findings. 🌟

*"I appreciated the instructor's sensitivity to Native American culture and values.
The course went well beyond simple plant identification."*



Photo: Bridget Lyons



Photo: Stephanie Ripley



Photo: Karen Withrow

#610 FISH BONES AND SCAT PILES: OTTERS IN THE WILD



Start: June 18 at 8 a.m.
End: June 19 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jamie Crait, Ph.D. candidate
\$200
Limit: 13

Secretive otters may not reveal themselves during this class—but you'll spend plenty of time looking for them. Along the way, you'll learn to identify their tracks and signs, investigate a den, and find out how they choose their habitats. You'll collect otter scat to dissect for clues to their prey. And in class sessions, you'll find out more about their role in the Yellowstone ecosystem, examine how the decline in cutthroat trout impacts them, and how humans affect them. No doubt you'll keep searching for these intriguing animals long after the class ends. ☀

#611 NEW! GHOST HOTELS OF YELLOWSTONE



Start: June 20 at 8 a.m.
End: June 21 at 5 p.m.
Location: Old Faithful
Instructor: Leslie J. Quinn, M.Ed.
\$200
Limit: 13

Learn about Yellowstone's ghost hotels and other historical oddities during this two-day course. 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? Enjoy visiting lost hotels and other sites at Old Faithful, West Thumb, Lake, Canyon, Mammoth, and throughout the park to find the answers. Antique photographs and stories told by your instructor, a park hotel expert, will also help you uncover these fun pieces of Yellowstone's history. ☀

#612 YELLOWSTONE'S WOLVES: ECOLOGY, BEHAVIOR, AND CONSERVATION



Start: June 20 at 9 a.m.
End: June 21 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Douglas Smith, Ph.D., and Christine Smith
\$240
Limit: 12

Some people wonder if wolves are worth all the public attention and scientific research they are receiving. You can learn about the value of this attention to humans and to ecosystems in which wolves live by finding out what scientists are learning from long-term wolf research in Yellowstone and other parts of the world. You'll learn about the natural history of wolves through field trips to observe them and to examine their scat, tracks, other sign, and carcasses of their kill. ☀

#613 NATIVE TROUT CONSERVATION IN YELLOWSTONE



Start: June 21 at 7 p.m.
End: June 23 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Bob Gresswell, Ph.D.
\$225
Limit: 13

If cutthroat trout and other native sport fish are to survive in Yellowstone National Park and remain an ecologically significant component of the ecosystem, it will be through intensive efforts based on sound, defensible science. You can join this effort by participating in spawning stream surveys, stream inventories, native fish restoration activities, and other management and scientific projects. You will be working on specific projects on the streams and lakes of the park, but you'll have some class time to learn details about the trout and current issues making their management so challenging. ☀

#614 NEW! SUMMER WILDLIFE WATCHING



Start: June 21 at 7 p.m.
End: June 24 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Brad Bulin, M.S.
\$325
Limit: 13

Learn from an expert why Yellowstone's northern range is often referred to as "North America's Serengeti." From the park's charismatic megafauna to lesser-known wildlife such as pika, salamanders, falcons, and even insects, you'll see how the northern range lives up to its name. Classroom-based lectures will complement field excursions to look for wolves and bears in the mornings and evenings, and search for reptiles, waterfowl, trout, and otters during the day. Short hikes to places like Trout Lake, Rescue Creek, and stops along the Yellowstone River will help paint the picture of the unique and fascinating assortment of wildlife that call Yellowstone's northern range home. ☀

"The entire experience was positive and memorable. Our instructor shares all of himself with his classes. I never fail to learn a huge amount of information from him. Being outside in Yellowstone National Park is the best!"



Photo: Karen Withrow



Photo: Bill Mahoney



Photo: Karen Withrow

#615 YELLOWSTONE'S GEOECOSYSTEM



Start: June 23 at 8 a.m.
End: June 25 at 4 p.m.
Location: Mammoth Hot Springs,
Lake Village
Instructor: Paul Doss, Ph.D.
\$300
Limit: 11

Find out firsthand how geology puts the "system" in ecosystem by exploring the geologic controls so magnificently displayed in Yellowstone National Park. During field trips and brief lectures, you'll learn how geology controls the ecosystem—from entire landscapes to small hillside niches, from charismatic megafauna to microscopic plants and animals. You'll also discover the intricate interplay among volcanic and hydrothermal processes, rock types, hydrogeology, and the distribution of flora and fauna that make Yellowstone unique. Participants should have a small overnight bag for the stay at Lake on the second night. Rooms will be held until 30 days prior to the course. Call 866-439-7375 for rates and reservations. ☀

#616 BEARS: BONES, SIGNS, AND STORIES



Start: June 24 at 9 a.m.
End: June 27 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: James Halfpenny, Ph.D., and
Jim Garry, M.S.
\$490
Limit: 12

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 Dr. James Halfpenny and the rich cultural history of bears from folklorist Jim Garry. Perhaps you'll see these magnificent bears during the field trips. ☀

#617 THE ART OF WILDFLOWER IDENTIFICATION



Start: June 25 at 8:30 a.m.
End: June 27 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Meredith E. Campbell
\$300
Limit: 13

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 sketching techniques. 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. ☀

#618 NEW! DRAGONFLIES, DAMSELFLIES, AND POND INVERTEBRATES



Start: June 28 at 9 a.m.
End: June 30 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Robert Anderson, Ph.D.
\$300
Limit: 13

Bring your waders and plenty of curiosity as you explore a lesser-known side of Yellowstone. The park is best known for its top predators and mammals, but with an expert's guidance you'll soon discover another fascinating world of predators and prey: the world of the small freshwater creatures that inhabit the glacial ponds, streams, and lakes in the northern sector of the park. Catch, observe, and learn to identify naiads of dragonflies and damselflies that feed on crustaceans, worms, mollusks, and the larvae of mayflies, caddisflies, and stoneflies. Classroom discussion of biological concepts will enhance field experiences. ☀

#619 EXPLORING YELLOWSTONE BY MAP AND COMPASS WITH AN INTRODUCTION TO GPS



Start: June 28 at 9:30 a.m.
End: June 28 at 4:30 p.m.
Location: Old Faithful
Instructor: Orville E. Bach Jr., Ed.D.
\$100
Limit: 13

Look at a hiking map of Yellowstone National Park, and you'll notice that trails traverse only a small fraction of the land. So how do you get to that little lake that is located away from any trails? Find out how in this short, fun course. You'll learn the classic skills of map and compass navigation that have helped travelers for centuries find their way. See how a GPS unit works, and why satellite navigation has enhanced route-finding. You'll use these skills to find that hidden lake and historic sites in the Old Faithful area and take home the knowledge to find other little-known sites away from any well-marked trail. Maps and compasses will be provided. ☀

"This was a chance to see nature with an experienced person and be around people who have similar interests."



Photo: Karen Withrow



Photo: Stephanie Ripley



Photo: Terry Donnelly

#620 **NEW!** DAY HIKING YELLOWSTONE: FOLLOWING NATIVE AMERICAN TRAILS



Start: June 28 at 7 p.m.
End: July 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jim Garry, M.S.
\$325
Limit: 13

Look back through time to explore some routes used for hundreds of generations before John Colter arrived. People started hiking in Yellowstone as soon as the glaciers melted. What evidence is there that the Bannock Trail exists, and what other Native American tribes played a role in the history of this country's first national park? Guided by an expert, you'll hike routes and trails that have been used for hundreds, if not thousands, of years, looking for signs of these early explorers and residents. ☀

#621 **WILDLIFE ARTISTS AND ILLUSTRATORS**



Start: June 30 at 7 p.m.
End: July 2 at 5 p.m.
Location: Gardiner, MT
Instructor: Gene Ball
\$225
Limit: 13

Come to North America's premier wildlife country and explore how wildlife art has developed and changed over the years. You'll examine the themes in this genre and how they parallel the movements to conserve and restore wildlife populations. See how wildlife illustrations and paintings follow artistic movements—or not. And consider how wildlife art contributed to the ongoing guidebook phenomenon and the vast market of prints and reproductions available today. In addition to illustrated discussions, you'll view the collections of the Heritage Research Center in Yellowstone and the National Museum of Wildlife Art in Jackson, Wyoming (admission not included). ☀

#701 **A TRAIL THROUGH LEAVES: THE ART OF THE ILLUSTRATED FIELD JOURNAL**



Start: July 1 at 9 a.m.
End: July 4 at Noon
Location: Lamar Buffalo Ranch
Instructor: Hannah Hinchman
\$400
Limit: 13

Enter nature in a new way, through the exhilaration and creativity of an illustrated field journal. You'll learn to mix words and images with exploration and introspection to record your encounters with the natural world. Explore these techniques through early morning writing rambles, classroom and field instruction in basic drawing methods, creative mapping, design and color, and careful observation. You'll have ample time for solitude and for browsing in the instructor's extensive library. ☀

#702 **NEW!** SUMMER WILDLIFE WATCHING



Start: July 2 at 7 p.m.
End: July 5 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Brad Bulin, M.S.
\$325
Limit: 13

Learn from an expert why Yellowstone's northern range is often referred to as "North America's Serengeti." From the park's charismatic megafauna to lesser-known wildlife such as pika, salamanders, falcons, and, even insects, you'll see how the northern range lives up to its name. Classroom-based lectures will complement field excursions to look for wolves and bears in the mornings and evenings, and search for reptiles, waterfowl, trout, and otters during the day. Short hikes to places like Trout Lake, Rescue Creek, and stops along the Yellowstone River will help paint the picture of the unique and fascinating assortment of wildlife that call Yellowstone's northern range home. ☀

#703 **NEW!** SUMMER LANDSCAPE PHOTOGRAPHY



Start: July 5 at 9 a.m.
End: July 8 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: Terry Donnelly and Mary Liz Austin
\$480
Limit: 12

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 set off with two professionals to explore Yellowstone, photographing subject matter ranging from its grand vistas to more intimate portraits of the land. Traveling by van and brief hikes to Yellowstone's iconic sites, you'll be on location both at sunrise and sunset to take advantage of the best light. Classroom time will be spent in discussion and viewing slide shows, with tips on digital file preparation. There will be a slideshow of participants' photos on the final afternoon. Learn to use compositional devices and creative tools as you hone your skills. SLR camera and tripod are desirable. ☀

"A unique and fabulous way to see one of the natural wonders of our country."

Members of the Yellowstone Association receive a \$10 discount.



Photo: Karen Withrow

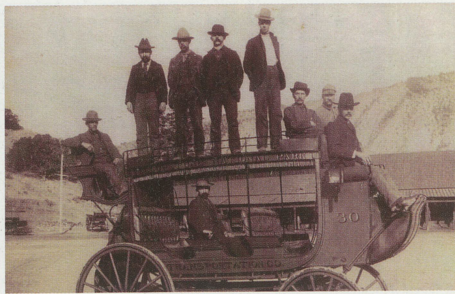
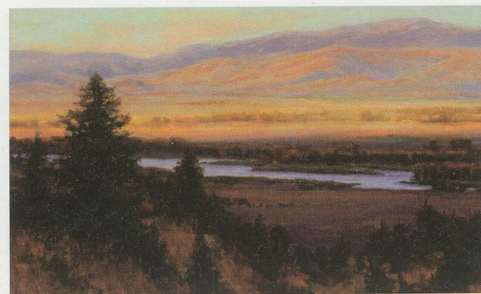


Photo: NPS



Painting: Aaron Schuerr



Photo: Bill Mahoney

#704 ALPINE WILDFLOWERS OF THE BEARTOOTH PLATEAU



Start: July 5 at 7 p.m.
End: July 7 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: John S. Campbell, Ph.D.
\$225
Limit: 12

High, windswept, and cold, the Beartooth Plateau seems inhospitable to wildflowers. In this field course, you'll discover the truth: the plateau is rich with wildflowers adapted to live at high altitudes. Many of them are blooming right now on the tundra, although their tiny sizes make them challenging to locate. As you look for them, you'll learn to identify families of flowering plants and individual species. Find out how they survive, what adaptations allow them to live in the tundra, and how alpine plant communities reveal subtle differences in the tundra habitat. ☀

#705 EMERGING KNOWLEDGE OF WOLVES



Start: July 8 at 7 p.m.
End: July 11 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructors: Nathan Varley, Ph.D., and Linda Thurston, M.S.
\$390
Limit: 25

In this seminar, you'll discover the latest results of wolf researchers. Their collective work addresses such important questions as: Are wolves lowering elk numbers and changing their distribution? For the wolf, is a bigger body size necessarily better for hunting large prey? Is being older necessarily better? Will wolf effects on prey alter beleaguered plant communities? Can wolves be deterred from hunting domestic prey, and thereby reduce conflict with ranchers in agricultural lands? Instructors will present these and other fascinating topics in the classroom while also leading groups into the field each morning for wildlife viewing and short hikes. ☀

#706 NEW! DUDES, SAVAGES, AND STAGECOACHES: THE HORSE AND BUGGY DAYS OF YELLOWSTONE



Start: July 8 at 7 p.m.
End: July 11 at 4 p.m.
Location: Gardiner, MT
Instructor: Lee Whittlesey, M.A., J.D., Ph.D. (Hon)
\$325
Limit: 13

Immerse yourself in the fascinating history of stagecoach travel in Yellowstone National Park. Your guide is the park's historian, and you will be entertained as he sets the stage of national events, 19th-century politics and geography, and the evolution of tourism. Listen to the stories, read the handwritten diaries, and view the archived photographs that document the travails and joys experienced by 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. ☀

#707 PICKING BUGS OUT OF THE PAINT: THE ART OF PLEIN-AIR PAINTING



Start: July 12 at 9 a.m.
End: July 15 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Aaron Schuerr
\$400
Limit: 13

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 sketching and 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. ☀

#708 NEW! DAY HIKING YELLOWSTONE: LITERARY TRAILS



Start: July 12 at 7 p.m.
End: July 15 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jim Garry, M.S.
\$325
Limit: 13

Hike trails recorded by some of Yellowstone's best writers. You'll stay in Osborne Russell's Secluded Valley and hike to Wahn Springs, named for the bear of Ernest Thomas Seton's *Biography of a Grizzly*. And you'll look at sites written about by such greats as John Burroughs, Rudyard Kipling, and John Muir. You'll learn about their park writings while hiking in the country they loved. With their words and images to guide you, you'll see and appreciate Yellowstone in an entirely new light. ☀

"The Institute's integrity in all things is great and I've had consistently great experiences here, now seven classes!"



Photo: Karen Withrow

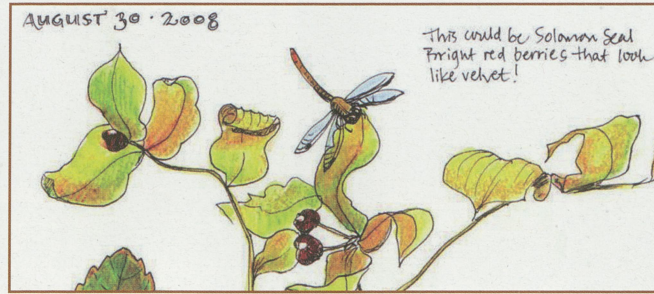


Illustration: Nancy Seiler



Photo: Karen Withrow

#709 ALPINE ECOLOGY IN THE BEARTOOTH[®]



Start: July 16 at 6 a.m.
End: July 18 at 4 p.m.
Location: Cooke City, MT
Instructor: James Halfpenny, Ph.D.
\$305
Limit: 13

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. Participants can choose between camping at the Chief Joseph campground, which will be the base of operations for this course, or staying in a hotel in nearby Cooke City. ☀

#710 BIRDING FOR BEGINNERS



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

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; how to describe what you see; and how to use field guides, binoculars, and spotting scopes. Then spend a full day in the park, closely examining the more common species in Yellowstone; learning which birds live in particular habitats in Yellowstone; and exploring the wonder of bird migration, song, and courtship. You'll also find out how to help birds wherever you live and to enjoy birding no matter where you are. ☀

#711 DRAWING IN DEPTH: THE PLANTS OF YELLOWSTONE



Start: July 16 at 9 a.m.
End: July 19 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Nancy Seiler
\$400
Limit: 13

Get up close to Yellowstone's plants and learn how to draw them true to life. You'll spend each morning on excursions to observe, draw, and collect field information about plants in different habitats. Learn to see clues about where they grow and why; examine them with magnification while taking extensive notes and sketching their details. In the afternoon, you'll develop your field sketches into botanically accurate illustrations using graphite pencils, pen, colored pencils, or watercolors. Through these experiences, you'll hone valuable skills for observing life closely. ☀

#712 FLY-FISHING FOR NOVICES



Start: July 19 at 10 a.m.
End: July 22 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Rhea Topping
\$425
Limit: 8

Learn to fly-fish in Yellowstone's world-class trout waters! You'll start casting the first day and learn the basics: knots, equipment, fly patterns and the insects they imitate, playing and landing a fish, wading safety, catch-and-release fishing, and fly-fishing etiquette. Learn about the kinds of trout inhabiting Yellowstone waters and trout conservation issues. You'll have plenty of time to practice and fish on your own and to enjoy wildlife viewing at dusk. Be sure to purchase your Yellowstone National Park fishing license before the class. ☀

#713 MAMMAL SIGNS: INTERPRETING TRACKS, SCAT, AND HAIR



Start: July 20 at 9 a.m.
End: July 23 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$415
Limit: 13

Mammals are elusive and hard to observe in the wild, but you can discover their behavior in the signs they leave behind. Through illustrated lectures and laboratories, you'll learn about natural history, ecology, anatomy, gaits, track averaging, relative size, estimating track age and speed, print identification, finding clues, and following trails. During afternoons in the field, you'll put your learning into practice as you explore animal behavior by reading the stories that tracks tell. ☀

"Everything about the course, from registration to these last moments, exceeded all my expectations. I learned a lot, felt safe, and had a blast."



Illustration: George Bumann



Photo: Scott Morrison



Illustration: Susan Zwinger



Photo: Stephanie Ripley

#714 DAY HIKING THE BEARTOOTH



Start: July 20 at 7 p.m.
End: July 23 at 4 p.m.
Location: Cooke City, MT
Instructor: Gene Ball
\$325
Limit: 13

Outside Yellowstone's northeast corner rises the Beartooth Plateau—an ancient high country with the largest expanse of tundra in the lower 48 states. After an evening review of low-impact backcountry travel, we'll spend three days hiking to glacial lakes, walking among blazing wildflower meadows, and soaking up the history, wildlife, issues, and ecology of the Greater Yellowstone Ecosystem. Hikes range up to 8 miles, with 1000-foot elevation gains, so take a deep breath and tighten up those boot laces. At day's end, you'll find good food and relaxation in Cooke City, where rooms have been set aside at the Alpine Motel until 30 days prior to the course. Call 888-838-1190 for rates and reservations. ☀

#715 NEW! QUICK SKETCHING WILDLIFE IN YELLOWSTONE



Start: July 23 at 7 p.m.
End: July 25 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: George Bumann, M.S.
\$225
Limit: 13

Preserve those wildlife experiences in a way that no camera can. In this course on quick sketching animals, you'll learn to release your mind and hands to record those momentary jewels in a reflexive dash of pencil on paper. Let a trained wildlife ecologist, naturalist, and professional artist teach you how to observe, understand, and document your experiences of wildlife watching in Yellowstone. Lessons will include information on animal anatomy, tidbits for understanding behavior, approaches and techniques to drawing animals, and more. Classroom time will include discussion, slides, and video footage, but the focus will be time spent in the park observing wildlife, with sketchbooks in hand. ☀

#716 NEW! FLY-FISHING FOR SEASONED ANGLERS



Start: July 24 at 10 a.m.
End: July 27 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Rhea Topping
\$425
Limit: 8

Seasoned anglers will enjoy learning about the "big picture" of fly-fishing in Yellowstone. While you will work on technique and fine tune good casting skills, this course offers much more than skill enhancement. Learn about important conservation issues relating to the different species of trout in Yellowstone, address concerns about invasive species, and spend time both in the classroom and in the field studying aquatic entomology. You'll fish as many different rivers as possible, using a variety of techniques, and returning after dark to the Lamar Buffalo Ranch. Yellowstone Park fishing permits, available at most visitor centers, are required. Participants must provide their own equipment. ☀

#717 NEW! THE ILLUSTRATED JOURNAL FOR HEART, ART, AND SCIENCE



Start: July 26 at 9 a.m.
End: July 28 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Susan Zwinger, Ph.D.
\$300
Limit: 13

Great minds through the centuries have kept journals. Greats such as Leonardo da Vinci and John James Audubon knew that the basis of good science, as well as art, is close observation. Through abundant exercises, field notes, drawing, description, and documentation, participants in this workshop will build journaling skills. Zwinger uses her own hardbound journals, as well as published examples, to show others how to keep their own records and observations of natural science. Through writing, drawing, observation, and research of various organisms, participants will develop valuable tools in the study of natural history. ☀

#718 TRACKING THE HEAT: YELLOWSTONE'S HOT SPOT AND CALDERAS



Start: July 28 at 7 p.m.
End: August 2 at 5 p.m.
Location: Old Faithful
Instructor: Lisa Morgan, Ph.D.
\$525
Limit: 13

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 Yellowstone hot spot and calderas, 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 866-439-7375 for rates and reservations. ☀

"The opportunity to learn from the world's expert is something that everyone interested in tracking should participate in."



Photo: Terri Tipping



Photo: Stephanie Ripley



Photo: Bill Mahoney

#719 BEARS: FOLKLORE AND BIOLOGY



Start: July 29 at 9 a.m.
End: July 31 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructors: Jim Garry, M.S., and
Harold Picton, Ph.D.
\$360
Limit: 12

Why does the bear loom large in Yellowstone and in our psychic landscape? You'll explore this question in both the classroom and the field. Learn about the bear's basic biology, including reproduction, behavior, food habits, home ranges, habitat use, and population biology. You'll also delve into the bears of myths, dreams, folklore, and popular culture. Throughout the course, you'll explore the importance of both scientific and folk knowledge as part of our relationship with the land of the bear. ☀

#720 SEARCHING FOR YELLOWSTONE'S MOST ELUSIVE CARNIVORES



Start: July 31 at 9 a.m.
End: August 1 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$205
Limit: 13

How do you study an animal you seldom see? You'll discover the answers by working with a scientist who is researching Yellowstone's most elusive predators—the wolverine and the Canada lynx. You'll learn to identify these carnivores, their footprints, and their sign. You'll visit a live-trap used on the wolverine research project and see how hair-snare devices can detect Canada lynx. And you'll find out why this research is so important to these animals and the rest of Yellowstone's ecosystem. ☀

#801 THE BISON OF YELLOWSTONE



Start: August 1 at 9 a.m.
End: August 3 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructors: Jim Garry, M.S., and
Harold Picton, Ph.D.
\$360
Limit: 12

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 19th century. Discover the role of the Buffalo Ranch in the survival of the bison and explore the current political turmoil around bison management and the definition of the Yellowstone ecosystem. ☀

#802 SHAPING THE NORTHERN YELLOWSTONE LANDSCAPE



Start: August 2 at 9 a.m.
End: August 4 at 3 p.m.
Location: Lamar Buffalo Ranch
Instructor: Grant A. Meyer, Ph.D.
\$300
Limit: 13

Northern Yellowstone displays the spectacular geologic processes—from volcanism to huge landslides—that shaped this region. You'll learn to read this landscape, interpret its evolution, and understand how physical processes and climate affect Yellowstone's ecosystems. With illustrated programs, you'll see less accessible areas and learn about scientific methods of interpreting geologic processes and history. During short hikes each day, you'll apply this knowledge and use maps and digital images to understand this still-evolving landscape. ☀

#803 **NEW!** UNDERSTANDING YELLOWSTONE'S HOT SPRINGS, MUDPOTS, AND GEYSERS



Start: August 4 at 9 a.m.
End: August 6 at 4 p.m.
Location: Old Faithful
Instructor: Pat Shanks, Ph.D.
\$300
Limit: 13

Explore the incredible world of Yellowstone's world famous thermal features. Yellowstone has more than 10,000 hot springs, mudpots, and geysers, but why are they here and how do they work? Learn about these features and the geology that hosts them from a leading researcher. Hike through renowned thermal areas, such as Upper and Lower Geyser basins, Norris, Mammoth, Mud Volcano, West Thumb, and areas along the margins of Yellowstone Lake as you learn about heat sources, volcanic gases, geyser eruptions, hydrothermal explosions, acid hot springs, and the microbes that reside in them. You may even get to take temperature or pH measurements as you explore and come to fully appreciate why Yellowstone was set aside as our first national park. ☀

"Our instructor has an obvious love for the park. She willingly and enthusiastically shares her knowledge."



Photo: Nick Derene

#804 **NEW!** NORTHEAST CORNER BACKPACK EXPEDITION: COOKE CITY TO GARDINER THE HARD WAY



Start: August 4 at 9 a.m.
End: August 13 at 5 p.m.
Location: Gardiner, MT
Instructor: Jim Garry, M.S., and Patty Walton
\$1,000
Limit: 8

Backpack from the northeast corner of Yellowstone from Cooke City to Gardiner. Forget carrying 9 days of groceries and fuel—this 10-day backpacking class offers a resupply day. Travel through the incredible scenery of the northern-most reaches of Yellowstone—prime wildlife habitat—while learning about the history of this part of the park. The route follows Warm Creek, Pebble Creek, Slough Creek, Buffalo Plateau, Coyote Creek, Hellroaring, Rescue Creek, and the Gardner River Canyon. You won't want to miss the only Yellowstone Association Institute backpacking course offered this summer. Visit our website for more information. ☀



Photo: Duncan Foley

#805 **NEW!** PHOTOGRAPHING YELLOWSTONE'S THERMALS



Start: August 9 at 7 p.m.
End: August 12 at 2 p.m.
Location: Old Faithful
Instructor: Duncan Foley, Ph.D.
\$325
Limit: 13

Learn to capture Yellowstone's world-famous geothermal features in photographs during this three-day course. Let expert Duncan Foley teach you the art of photographing geysers, mudpots, and hot springs on trips to the Upper, Midway, and Lower Geyser basins. You'll learn how to emphasize colors, textures, and composition, especially during morning and evening light; and geyser basins provide many topics for midday photos too. Other possible trips include Mammoth Hot Springs, Canyon, West Thumb, or the Norris Geyser Basin. Digital cameras preferable. No need for an SLR camera. ☀



Painting: Lita Judge

#806 **NEW! A DEEPER VIEW OF WOLVES: GENES, ENVIRONMENTS, AND BEHAVIOR**



Start: August 10 at 9 a.m.
End: August 11 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Dan Stahler, Ph.D. candidate
\$200
Limit: 13

Gain a fresh perspective on wolves as you learn about the factors that influence their lives. Current science is revealing new truths and mysteries about wolves. Integrating new molecular techniques with traditional field biology, we are learning more about how their genes and environment affect wolves' behavior and ecology. Through dynamic classroom lectures and field observations, you'll explore subjects ranging from how kinship and socioecological conditions interact to influence reproduction and territoriality, to the genetic structure of western wolf populations, to genetics of coat color. Recent findings and cutting-edge science will be used to help you gain a deeper understanding of Yellowstone's wolves—one that will both reinforce existing ideas and alter long-established paradigms. ☀

#807 **NEW!** PAINTING MORAN'S YELLOWSTONE



Start: August 10 at 7 p.m.
End: August 13 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Lita Judge
\$325
Limit: 13

Explore Yellowstone through the eyes of an artist. Thomas Moran's field sketches from the 1871 Hayden Expedition played a vital role in the preservation of the park. View the paintings of Moran and other early explorers at the Yellowstone Heritage and Research Center. Then follow in their footsteps as you discover the pleasure of plein-air (open air) painting with watercolors. Through daily painting excursions, nightly lectures, and painting demonstrations, you'll explore and learn the art history of Yellowstone. Enjoy three days of on-location painting that includes demonstrations, critiques, and encouragement from your artist instructor. You may even get the opportunity to paint some of the same locations made famous by Moran. ☀

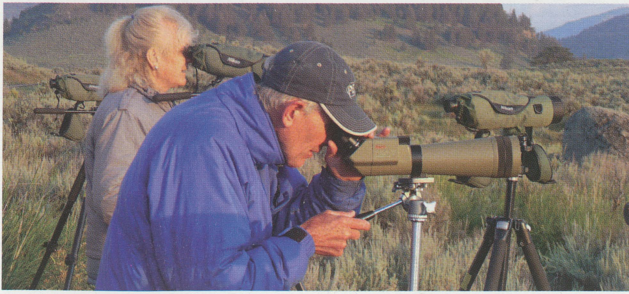


Photo: Karen Withrow



Photo: Stephanie Ripley

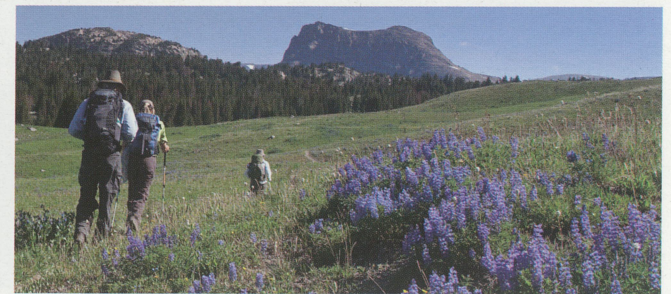


Photo: Terri Tipping

#808 **NEW!** SUMMER WILDLIFE WATCHING



Start: August 12 at 7 p.m.
End: August 15 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Brad Bulin, M.S.
\$325
Limit: 13

Learn from an expert why Yellowstone's northern range is often referred to as "North America's Serengeti." From the park's charismatic megafauna to lesser-known wildlife such as pika, salamanders, falcons, and even insects, you'll see how the northern range lives up to its name. Classroom-based lectures will complement field excursions to look for wolves and bears in the mornings and evenings, and search for reptiles, waterfowl, trout, and otters during the day. Short hikes to places like Trout Lake, Rescue Creek, and stops along the Yellowstone River will help paint the picture of the unique and fascinating assortment of wildlife that call Yellowstone's northern range home. ☀

#809 **NEW!** BEGINNING FLY-FISHING FOR WOMEN



Start: August 15 at 10 a.m.
End: August 18 at 4 p.m.
Location: Gardiner, MT
Instructor: Rhea Topping
\$425
Limit: 8

This is your chance to jump start your interest in fly-fishing. This course covers all the basics: knots, equipment, fly patterns and the insects they imitate, playing and landing a fish, wading safety, and catch-and-release fishing. Let your instructor, an author on the subject, teach you about fly-fishing etiquette. Also a certified master casting instructor, Rhea Topping will help you develop good casting skills. You'll enjoy time on a variety of rivers, in the prettiest classroom ever, Yellowstone National Park. At dusk you'll have time to view wildlife before returning each evening to Gardiner. Yellowstone Park fishing permits, available at most visitor centers, are required. Participants provide their own equipment. ☀

#810 THE PLACE NAMES OF WONDERLAND



Start: August 21 at 9 a.m.
End: August 23 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Lee Whittlesey, M.A., J.D.,
Ph.D. (Hon)
\$300
Limit: 13

Have you ever wondered if the Gibbon River is named after a man or a monkey? Find out the origin of this name and hundreds of others in Yellowstone while traveling around the park with its historian. Stop to look at a mountain and find out who it is named for and who decided to honor this person and why. Learn how Greek and Roman mythology affected Yellowstone's place names, plus discover the influence of American politics and religion. And find out the role the U.S. Government plays today in naming places here and around the country. ☀

#811 THE WOLVES OF YELLOWSTONE



Start: August 21 at 9 a.m.
End: August 23 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: George Bumann, M.S.
\$300
Limit: 13

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. ☀

#812 DAY HIKING THE WILD YELLOWSTONE: NORTHERN RANGE AREA



Start: August 23 at 7 p.m.
End: August 26 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jim Garry, M.S.
\$325
Limit: 13

John Muir once exclaimed that Yellowstone is "wild enough to awaken the dead." More than 100 years later, Yellowstone's wild side is still out there waiting for you to lace up your boots, leave the roadside, and hike into the backcountry. After an evening review of low-impact backcountry travel, you will hit the trail to soak up the history, geology, ecology, wildlife, and wildflowers with stories, discussion, and hands-on exploration. Daily hikes will range from 8 to 12 miles with 2000-foot elevation gains, so come prepared to breathe the air that "is electric and full of ozone." ☀

"All hikes were well-planned, beautiful, and fun! My feet aren't happy, but my heart is full."

Members of the Yellowstone Association receive a \$10 discount.



Photo: Shirley Cope



Photo: Larry Loendorf

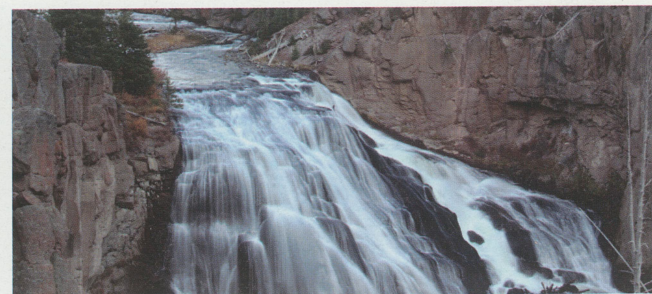


Photo: Stephanie Ripley

#813 **NEW! THE GRAND TOUR OF YELLOWSTONE GEOLOGY**



Start: August 24 at 9:30 a.m.
End: August 26 at 4 p.m.
Location: Old Faithful
Instructor: Jamie Farrell
\$300
Limit: 13

Did you know that Yellowstone is a living, breathing, shaking volcano? Learn about the geologic origin of Yellowstone and its active volcanic, earthquake, and deformation history through field excursions to volcano, fault and glacial features, and geysers. Visit modern seismic and GPS-measuring instruments to understand how volcanic activity is measured. Spend time in the classroom the first day learning background knowledge of the Yellowstone volcanic system and viewing maps and illustrations. Field trips will include moderate hikes and walks along the boardwalks in Upper, Midway, Biscuit, and Norris Geyser basins, with stops at Yellowstone Lake, the Grand Canyon, Hayden Valley, and Firehole Canyon Drive. ☀

#814 **WONDERLAND'S SERENE SPOT: HISTORY ON YELLOWSTONE LAKE**



Start: August 28 at 9 a.m.
End: August 28 at 5 p.m.
Location: Lake Village
Instructor: Leslie J. Quinn, M.Ed.
\$140
Limit: 11

Lake Hotel has long been a place to slow down and enjoy Yellowstone, but the hotel's button-down exterior belies the area's colorful past. Traveling on foot and by bus, you'll visit the hotel and Lake Lodge plus the sites of a vanished lodge, the colorful Wylie "permanent camp," and other historical curiosities. You'll also travel by boat to Stevenson Island, where the shipwrecked SS *E.C. Waters* rests. ☀

#815 **NEW! THE AMERICAN BEAVER: ECOSYSTEM ARCHITECT AND HABITAT-MAKER**



Start: August 30 at 8 a.m.
End: August 31 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Bruce Thompson, M.S.T.
\$200
Limit: 13

No other animal on our continent has so uniquely gnawed its way into both the natural and cultural history of our nation. Discover the status of *Castor canadensis* in the greater Yellowstone area. How has the wolf reintroduction impacted the beaver? How does this preeminent dam builder impact the lives of elk and numerous other animals? Explore the beavers' wetland habitat and learn about beaver evolution and behavior as you observe active colonies. Your instructor will give an overview of non-lethal innovations to mitigate behavior of this important ecosystem architect and habitat-maker. ☀

#816 **CALLING YELLOWSTONE HOME: THE SHEEP EATERS**



Start: August 30 at 9 a.m.
End: September 1 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Larry Loendorf, Ph.D.
\$300
Limit: 12

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 used as they traveled in and out of 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. ☀

#817 **NEW! YELLOWSTONE BY COACH AND CAMP: THE WYLIE WAY**



Start: August 30 at 7 p.m.
End: September 1 at 4 p.m.
Location: Old Faithful
Instructor: Elizabeth Watry
\$225
Limit: 13

In 1883, William Wallace Wylie inaugurated a movable camp system that used horses, wagons, and tents for visitors to tour Yellowstone. The program became so popular that Wylie established permanent camps throughout the park, but by 1916 the introduction of the automobile brought the romantic era of stagecoach travel to a close. Visit locations of the Wylie Permanent Camping Company, looking for scattered remnants of human habitation and activities. In the classroom, you'll view brochures and photographs, both from the early 1900s and from your instructor's recent explorations. Enjoy field excursions to the Old Faithful, Lake, Canyon, Swan Lake, and other camps, as you learn about this fascinating time in the park's early history. ☀

"The cumulative effect of these days of talks and walks has provided me with an understanding of geology that I have never been able to achieve in workshops or geology field trips before."



Photo: Jon Trapp



Photo: Nick Derene



Photo: Nick Derene

#901 **NEW!** FORCES OF NATURE: WOLVES AND FIRE



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

Over the ages, both wolves and fire have played important ecological roles in shaping our natural environment. We will explore the ecology and management of these two influential forces and discuss topics such as: how wolves and fire affect ungulate populations; how fire both benefits and hinders herbivores, and how it consequently affects wolves; how indigenous populations viewed wolves and fire; and how the management strategies of wolves and fire have evolved over the last 100 years. We will be up early and out late looking for wolves. Be prepared for short hikes and time outdoors in cold, wet weather. ☀

#902 **WORDS INSPIRED BY WILDERNESS**



Start: September 3 at 9 a.m.
End: September 6 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Alan Kesselheim
\$400
Limit: 13

In this intensive field and classroom course, you'll learn to render experiences and personal insights into powerful writing through the skills of vivid "diving in" to scenes, showing rather than telling, hitching anecdotes to universal themes, editing to tighten and strengthen, and highlighting details in a scene. You'll develop and hone an essay or other piece of writing and discuss each other's work, much like a writer's group that meets to discuss issues and provide feedback. At the conclusion, you will formally present your finished piece to the group. Accept this challenge to push your writing to the next level. ☀

#903 **NEW!** HIKING THROUGH TIME: GEOLOGY OF THE NORTHERN RANGE



Start: September 3 at 7 p.m.
End: September 6 at 4 p.m.
Location: Gardiner, MT
Instructor: Cheryl Jaworowski, Ph.D.
\$325
Limit: 13

Learn about the catastrophic and gradual processes that formed the Yellowstone landscape in this three-day course. Hike the Specimen Ridge, Lamar, and Hellroaring Creek trails as you discuss the geology of the northern Yellowstone landscape. The first evening's meeting will be in the classroom, where you'll discuss plans for the class and learn about Yellowstone's geology. Head out the next day to explore the landscape, learn to read geologic maps, identify rocks and minerals, and search for evidence of ancient life as you discover the geological processes that created the extraordinary landscape of the northern range. ☀

#904 **RAPTORS ON THE WING**



Start: September 4 at 7 p.m.
End: September 6 at 3 p.m.
Location: Gardiner, MT
Instructor: Terry McEneaney
\$225
Limit: 9

Anywhere you look this time of year, you are likely to see raptors either wing-flapping or soaring on updrafts on their way south. You'll find out why these birds-of-prey fly along ridges, where they are going, and what they eat. Because you are likely to see so many species of raptors, this is the perfect time to learn the nuances of raptor identification—especially the field marks of immature and adult hawks, eagles, falcons, and osprey. Whether you are a beginning or advanced birder, you'll pick up new identification tips as you observe this amazing assemblage of migrating raptor species. ☀

#905 **FALL ON THE NORTHERN RANGE**



Start: September 11 at 9 a.m.
End: September 13 at 4 p.m.
Location: Gardiner, MT
Instructor: Jim Garry, M.S.
\$300
Limit: 13

Explore Yellowstone's famous northern range during its lively fall season, when you can see—and hear—what the elk are up to. Properly called the "northern winter range," this vast open area of Yellowstone is year-round habitat for many species. Through field trips and discussions, you'll find out how the Northern Range 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 of thousand feet of elevation change—yet another factor in the variety of this vast land of wildlife. ☀

"Great instructor; I went from inept and frustrated with my camera to excited to use my new skills!"



Photo: Molly Hashimoto

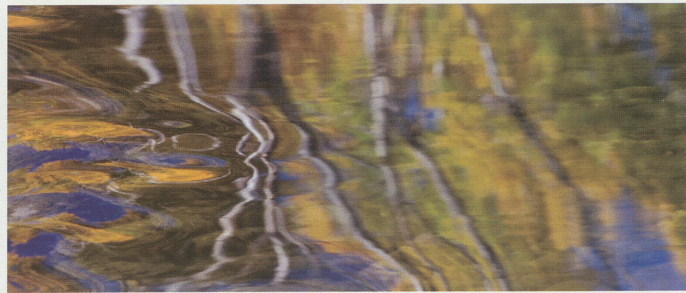


Photo: Sandra Nykerk



Photo: Bill Mahoney

#906 THE BEAUTY AND SCIENCE OF AUTUMN



Start: September 17 at 1 p.m.
End: September 19 at 4 p.m.
Location: Gardiner, MT
Instructor: James Halfpenny, Ph.D.
\$250
Limit: 13

Luminescent aspens, gold-colored fields, subtle lines of red running up mountains—the colors of fall signal changing seasons, life and death, procreation and preparation. Immerse yourself in this wealth of wonder on field trips to explore and photograph aspen groves, colorful hillsides, dying conifers, elk in rut, and traveling wolves. Learn why aspen colors change and how beetles cause red evergreens. Look for wolves teaching their young essential skills for surviving the coming cold, and watch elk in the throes of their annual mating season. It's a colorful, wild time in Yellowstone—experience it all! ☀

#907 PAINTING FALL LANDSCAPES OF YELLOWSTONE



Start: September 17 at 7 p.m.
End: September 20 at 4 p.m.
Location: Gardiner, MT
Instructor: Molly Hashimoto
\$345
Limit: 13

Discover the pleasure of plein-air watercolor painting in Yellowstone, painting at the colorful thermal areas as well as at locations where fall color is at its best. Enjoy studio time in Gardiner learning watercolor techniques and developing your palette. Practice each day outdoors at one of the park's spectacular landscapes, drawing and painting Yellowstone's landforms and hydrothermal features. You'll also have the opportunity to view the magnificent art collection held in the Yellowstone Heritage and Research Center, which includes works by Moran, Twachtman, and Widforss and serves as inspiration to artists around the world. ☀

#908 AUTUMN PHOTOGRAPHY IN YELLOWSTONE



Start: September 25 at 6:30 p.m.
End: September 29 at 4 p.m.
Location: Gardiner, MT
Instructor: Sandra Nykerk
\$435
Limit: 12

Immerse yourself in Yellowstone's autumn while exploring unparalleled photographic opportunities, from bugling elk to the spectacular colors of the changing landscape. You'll build a foundation of technical photographic principles and then move on to explore your own creative vision. You'll also learn the differences between film and digital imaging, the possibilities of macro photography, the importance of understanding natural history, and the essential role of ethics in nature photography. You will need a film or digital SLR camera with which you are familiar and a thorough understanding of basic photographic principles. ☀

#909 THE WONDERLAND COLLECTIONS: UP CLOSE AND PERSONAL



Start: September 27 at 9 a.m.
End: September 27 at 4 p.m.
Location: Gardiner, MT
Instructor: Colleen Curry, M.A.
\$100
Limit: 15

This rare behind-the-scenes day at Yellowstone's Heritage and Research Center will take you into the collections of cultural and natural history specimens seen by few other people. You'll be able to study rarely seen items such as Thomas Moran's original watercolors, early souvenirs, rare books and manuscripts, and natural history specimens such as skulls from the wolves restored in the 1990s. Search for additional information on objects of your choice through the collections database and find out how the park collects, processes, handles, and stores these irreplaceable items. ☀

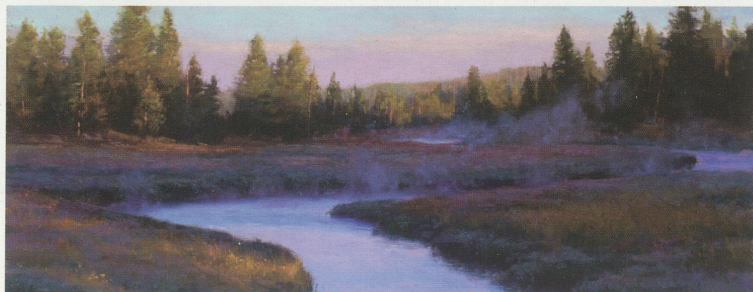
#1001 AUTUMN WILDLIFE WATCHING



Start: October 1 at 9 a.m.
End: October 3 at 4 p.m.
Location: Gardiner, MT
Instructor: George Bumann, M.S.
\$300
Limit: 13

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. ☀

"The breadth of the instructor's knowledge gave me a much better appreciation for the park. I'll see Yellowstone through a new set of eyes as a result of this class."



Pastel Painting: Aaron Schuerr



Photo: Meg Sommers

#1002 **NEW!** CAPTURE YELLOWSTONE WITH PASTELS



Start: October 2 at 9 a.m.
End: October 3 at 4 p.m.
Location: Gardiner, MT
Instructor: Aaron Schuerr
\$200
Limit: 13

Learn to create dynamic landscapes in pastel—the perfect tool to approach the splendid autumn color in Yellowstone. This two-day course will offer expert classroom instruction in the mornings, covering such topics as a painterly approach to pastel, broken color and layered color, texture, design, pastel brands, papers, and framing. Your instructor will demonstrate in both charcoal and pastel and help you prepare for creating pastel paintings on location. Afternoons will be spent in the field, putting what you've learned into practice with individualized guidance and encouragement from your instructor. You'll finish the class with a friendly group critique of the creations. ☀

#1003 **AUTUMN DAY HIKING IN YELLOWSTONE**



Start: October 5 at 7 p.m.
End: October 8 at 5 p.m.
Location: Gardiner, MT
Instructor: Ashea Mills
\$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. Enjoy an easy first day to acclimate to the climate and elevation, taking a short hike and watching wildlife. After that, plan on hiking 8 to 12 miles each day with elevation gains up to 1500 feet. ☀

#1004 **NEW!** AUTUMN WILDLIFE PHOTOGRAPHY



Start: October 6 at 9 a.m.
End: October 9 at 4 p.m.
Location: Gardiner, MT
Instructor: Meg Sommers
\$400
Limit: 13

Spend four days surrounded by Yellowstone's fall splendor while learning to photograph wildlife, both large and small. Learn photographic techniques, philosophies, and ethics while you study wildlife behaviors and habitats. This class is ideal for beginning and intermediate photographers who want to advance their photography skills. Classroom time will focus on composition, lighting, equipment, and computer skills. The majority of the course, however, will be spent in the field, learning to capture Yellowstone's abundant and diverse wildlife with a camera. You will need either a film or digital SLR camera. ☀

#1005 **THE WOLVES OF YELLOWSTONE**



Start: October 13 at 9 a.m.
End: October 15 at 4 p.m.
Location: Gardiner, MT
Instructor: Brad Bulin, M.S.
\$300
Limit: 13

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: Nick Derene

"Lectures were exceptional, and given by dynamic, articulate, and extremely knowledgeable individuals."

Members of the Yellowstone Association receive a \$10 discount.

INSTRUCTOR PROFILES

ROBERT ANDERSON, PH.D. (16) is an entomologist and retired professor of biological sciences at Idaho State University, where he taught and wrote about applied ecology and medical entomology. He has also produced videos on crickets, insect collecting, and butterflies of Yellowstone and Grand Teton national parks.

MARY LIZ AUSTIN (17) is a professional landscape photographer working from her home in Puget Sound. In her art she strives to define her relationship with her subject through photography, whether it's capturing a grand landscape image or an intimate nature portrait. Her images convey the elemental beauty of nature with exquisite detail achieved from large format photography. Her images are featured by many prominent publishers of books, calendars, and magazines.

ORVILLE E. BACH, JR., ED.D., (16) is a familiar face at the Old Faithful Visitor 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*.

GENE BALL (11, 17, 20) was director of the Yellowstone Association and Institute from 1985–88. He now lives in Meeteetse, Wyoming, and teaches a wide variety of topics and does other freelance projects for a variety of organizations throughout the West.

SHAUNA BARON (4, 5, 6, 9) is a biologist who has studied large and small carnivore species, including wolves, bears, fishers, and bobcats. She has worked with the Colorado-based Mission Wolf captive wolf program, the U.S. Fish and Wildlife Service Red Wolf Project in North Carolina, and as a volunteer for the Yellowstone Wolf Project. Shauna is a resident instructor for the Yellowstone Association Institute.

BRAD BULIN, M.S., (4, 5, 6, 9, 15, 17, 23, 27) is a wildlife biologist with more than 10 years' experience teaching science at the K–12 and college levels and conducting extensive field research on carnivores, raptors, amphibians, and plants. In addition to being a resident instructor for the Yellowstone Association Institute, Brad is a wildlife cinematographer who spends considerable time capturing Yellowstone on camera.

GEORGE BUMANN, M.S., (12, 20, 23, 26) can draw, paint, describe, and teach about all aspects of Yellowstone National Park's ecology. He has a degree in wildlife ecology and experience teaching field biology, ornithology, dendrology, mammalogy, drawing, and field journaling. His art and writing have appeared in popular and scientific publications. His bronze sculptures can be found in the National Museum of Wildlife Art in Jackson, Wyoming, and collections across the United States, and Europe.

JOHN S. CAMPBELL, PH.D., (18) has studied arctic and alpine plant ecology in the Greater Yellowstone Ecosystem since 1973. He is a professor of biology at Northwest College, located immediately east of Yellowstone National Park, and has published an extensive review of North American alpine ecosystems.

MEREDITH E. CAMPBELL (16) holds a bachelor of science degree with an emphasis in botany and a certificate in scientific illustration. Meredith's botanical and wildlife illustrations have been published in numerous books, magazines, and other publications. She is a professional artist who has been teaching drawing to both adults and children for the past 20 years.

JAMIE CRAIT, PH.D. CANDIDATE (15) has been studying otters for more than five years, earning his master's degree in 2005 and now working toward his Ph.D. at the University of Wyoming. He has earned several awards for his research and has published numerous articles about otters and the ecology of Yellowstone Lake. His research focuses on how declines in cutthroat population affect otters and the ecology of the lake.

COLLEEN E. CURRY, M.A., (26) is the supervisory museum curator at Yellowstone National Park where she oversees the park's museum program, the archives, and the research library. She planned and supervised moving the park's 5.3-million-item collection to the Heritage and Research Center in 2004. Before coming to Yellowstone, she was curator at other National Park Service sites and at the U.S. Supreme Court.

TERRY DONNELLY (17) is an award-winning professional landscape and nature photographer with over 30 years of experience. His images are notable for their fusion of strong subject matter with revealing light. Terry's photography is featured in books, magazines, and calendars by many prominent publishers, among them The Audubon Society, Sierra Club Books, National Geographic Books, Brown Trout, The Wilderness Society, and The Nature Conservancy. Fine art prints of his photographs are held in private and corporate collections across the country.

PAUL DOSS, PH.D., (16) vividly describes geologic processes so that you can almost see the landscape forming. Supervisory geologist for Yellowstone National Park from 2000–2001, he teaches in the Department of Geology and Physics at the University of Southern Indiana. For more than two decades, he has taught field geology, conducted research, and completed geologic mapping in the Rocky Mountain Region and the Yellowstone Plateau.

TERRY ENK, PH.D., (12) studied bighorn sheep and mountain lions for his doctorate from Montana State University. He has also conducted mountain lion research with the Hornocker Wildlife Institute, assisted in developing a strategy to protect wildlife along the U.S.-Mexico border, and served as elk biologist for the New Mexico Department of Game and Fish. He now is a wildlife consultant from his home in Boise, Idaho.

JAMIE FARRELL (24) is an advanced PhD student at the University of Utah. He has worked for seven years on research on the geology and geophysics of Yellowstone, specializing in earthquakes and ground deformation. He participates in outreach of scientific information to the Yellowstone Volcano Observatory and to the public. In addition to spending many weeks in the park each year doing field research, he has led numerous field trips in the Yellowstone area. Jamie lived in West Yellowstone and worked as a fly-fishing guide in and around the park prior to moving to his current home in Utah.

DUNCAN FOLEY, PH.D., (22) has been teaching in Yellowstone for more than 30 years. He guides students among the ever-changing and fascinating hydrothermal features, and teaches about the volcano that fuels them and how to photograph them. A professor of geosciences at Pacific Lutheran University in Tacoma, Washington, he is the author of *Yellowstone's Geysers and Other Hydrothermal Features*.

JIM GARRY, M.S., (13, 16, 17, 18, 21, 22, 23, 25) weaves together natural history, human history, folklore, and myth into spellbinding stories. A naturalist and folklorist, he has spent a good part 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., (11) has worked in the adult environmental and outdoor education field for 14+ years, for organizations such as the Appalachian Trail Conference, Student Conservation Association, and Virginia Tech. She is a certified Leave No Trace master educator, certified interpretive trainer through the National Association for Interpretation, and wilderness first responder. Jenny is currently program manager for the Yellowstone Association.

BOB GRESSWELL, PH.D., (15) knows the cutthroat trout intimately after more than 30 years studying this fish. He is a research biologist with the USGS Northern Rocky Mountain Science Center in Bozeman, Montana, and has affiliate faculty appointments at Montana State University and Utah State University.

KERRY A. GUNTHER, M.S., (11) is the bear management biologist for Yellowstone National Park, where he has worked in grizzly bear and black bear research and management for more than two decades. He has published papers on bear management, grizzly bear-human interactions, bear-inflicted human injuries, and grizzly bear predation on elk calves, bison calves, and spawning cutthroat trout. He is the recipient of the 1997 Sigurd Olsen Environmental Achievement Award and the 2005 U.S. Department of Agriculture Conservation Project of the Year Award.

JAMES HALFPENNY, PH.D., (13, 14, 16, 19, 21, 26,) is an ecologist, educator, and writer who has taught field courses since 1961 and was coordinator of long-term ecological and alpine research at the University of Colorado. As president of A Naturalist's World, Jim produces educational books, computer programs, and videos and travels the world teaching about bears, wolves, and animal tracks. Jim's recent books are *Yellowstone Wolves in the Wild* and *Yellowstone Bears in the Wild*.

MARK HAROLDSON (13) has studied bears for more than 30 years. He is supervisory wildlife biologist for the Interagency Grizzly Bear Study Team in Bozeman, Montana, and has authored or co-authored more than 30 publications about grizzly bears. Recent works include co-authoring *Wildlife Monograph No. 161* on grizzly-bear population parameters in the Yellowstone ecosystem and a book chapter on grizzly bear ecology and management.

DAN HARTMAN (14) lives year-round on the northeast border of Yellowstone National Park, where he operates his *Wildlife Along the Rockies* gallery in Silver Gate. Through years of patient and respectful observation, he has proven that rare or elusive wildlife can be photographed in natural habitat, without the use of game farms. His photographs have been widely published in magazines such as *National Wildlife* and *National Geographic*.

MOLLY HASHIMOTO (26) has been painting watercolors for more than 25 years. Her paintings of the North Cascades and Pacific Northwest have been widely exhibited. She has also illustrated several children's books. In addition to teaching at the Yellowstone Association Institute, she teaches at the North Cascades Institute and the Sitka Center for Art & Ecology.

HANNAH HINCHMAN (17) teaches renowned illustrated journal workshops around the country. She has also worked with graduate students in architecture, geography, and design at Louisiana State University. Her books include *A Trail Through Leaves: The Journal as a Path to Place* and the award-winning *Little Things in a Big Country: An Artist and her Dog on the Rocky Mountain Front*. She is earning her MFA in graphic design at Indiana University.

CHERYL JAWOROWSKI, PH.D., (25) is a geologist for Yellowstone National Park. Her scientific research and interests include Yellowstone's volcano, glacial geology, geologic mapping, and the evolution of the landscape. She has enjoyed hiking and skiing in the greater Yellowstone area for more than 20 years.

LITA JUDGE (22) is an artist, illustrator, and author who; in her previous education and work as a geologist, spent an entire summer mapping the Yellowstone and surrounding areas. Her paintings have been exhibited at the C.M. Russell Museum, The Phippen Museum, and the San Diego Museum of Art. Awards for her children's books include the International Reading Association Children's Book Award, American Library Association Notable Book, Jane Addams Children's Book Honor, and the Storytelling World Resource Award.

ALAN KESSELHEIM (25) is a wilderness adventurer, accomplished paddler, freelance writer, and workshop leader. Adventures in wild places have fueled much of his writing. He has written hundreds of magazine pieces and nine acclaimed books, including *Water and Sky: Reflections of a Northern Year* and *Threading the Currents: A Paddler's Passion for Water*. He has taught popular writing classes at the Buffalo Ranch and on the shores of Yellowstone Lake since 2001.

LARRY LOENDORF, PH.D., (24) has always been interested in the hunting and gathering cultures of Montana and Wyoming. He has contributed to the understanding of these cultures through his archeological and historical research, his university teaching, and his writing. Loendorf co-wrote *Restoring a Presence: American Indians and Yellowstone National Park* with Peter Nabokov. He is also the author of *Mountain Spirit: The Sheep Eater Indians of Yellowstone*.

MACNEIL LYONS (4, 5, 6, 9) is an experienced National Park Service ranger and educator. He has served at the Blue Ridge Parkway, Point Reyes National Seashore, Golden Gate National Recreation Area, and Yellowstone National Park. Currently a resident instructor for the Yellowstone Association Institute, he designed the Institute's award-winning *Yellowstone for Families* program. MacNeil is also a published writer and photographer.

TIMOTHY P. MCCLEARY, PH.D., (11) works with the Crow Nation to record and share their history, traditions, and culture. He is a professor at Little Big Horn College, the Crow tribal college. He received his Ph.D. in anthropology at the University of Illinois: Urbana-Champaign. He has published papers on Crow culture, and the book *The Stars We Know: Crow Indian Astronomy and Lifeways*.

TERRY MCENEANEY

(11, 13, 25) recently retired from Yellowstone National Park after serving 34 years as a field ornithologist and has embarked on a part-time guiding/lecturing business. He teaches ornithology field classes throughout Montana and Wyoming. He wrote *Birds of Yellowstone*, *The Uncommon Loon*, and *Birding Montana*. He is writing several new books including *The Ecology of Yellowstone Birds*, *The Yellowstone Trumpeter Swan*, and *Lucky Feathers* about his personal field experiences with Yellowstone birds.

GRANT A. MEYER, PH.D.,

(21) studied fires and climate change in northern Yellowstone, which earned him the 1997 Kirk Bryan Award of the Geological Society of America. He is assistant professor in the Department of Earth and Planetary Sciences at the University of New Mexico and has studied landforms and geological processes in Yellowstone since 1983.

ASHEA MILLS (4, 5, 6, 9, 27) is an expert naturalist who has worked in many spectacular places across the United States. Her passion, though, is Yellowstone—and she has been teaching and guiding here for more than 10 years. An inspiring educator and experienced backcountry traveler, she is equally knowledgeable about this region's wildlife, geology, and history, and is passionate about sharing the wonders of Yellowstone with visitors of all ages.

LISA MORGAN, PH.D.,

(20) studies the geology and geophysics of volcanic terrains in and near Yellowstone National Park as a research geologist for the U.S. Geological Survey. With Ken Pierce, she has developed major concepts and a model for the Yellowstone hotspot. Currently, she is focusing on caldera-forming eruptions, rhyolitic lava flows, hydrothermal explosions, and the geology of Yellowstone Lake.

SUE CONSOLO

MURPHY, M.S., (13) is chief of science and resource management at Grand Teton National Park and also worked for Yellowstone National Park from 1982 to 2003. She has worked with the Interagency Grizzly Bear Study Team and served on the conservation strategy team for Yellowstone's grizzlies. She has written papers on grizzly management and the book *Wildlife @ Yellowstone*.

TOM MURPHY (13)

owns Wilderness Photography Expeditions and conducts natural-history-photography seminars primarily in Yellowstone National Park. Tom's work has been published in *The New York Times Magazine*, *Newsweek*, *Outside*, *National Geographic*, and most of the major magazines that deal with natural history. Tom has published several books, including the series *The Seasons of Yellowstone*, which includes *The Light of Spring*, *The Abundance of Summer*, and *The Comfort of Autumn*.

SANDRA NYKERK (14, 26) is a naturalist and photographer who lives in Gardiner, Montana. She has taught photography workshops and natural history programs throughout the country for more than 25 years and her photographs and fine art images are widely published and exhibited. Sandra's interdisciplinary degree in photography, cultural anthropology, and environmental history explored the role of photography in the cultural and personal perceptions of natural spaces, especially Yellowstone National Park.

WAYNE PHILLIPS (14) is a former U.S. Forest Service ecologist who now teaches and writes about the flora of the Rocky Mountains and Great Plains and is active in the Montana Native Plant Society. 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., (12, 21) 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 the Yellowstone area. He has also published two books and produced a television documentary.

LESLIE J. QUINN, M.ED., (15, 24) trains park bus tour guides, boat guides, and wranglers for Xanterra Parks and Resorts® in Yellowstone. He also contributes to *Yellowstone Science*. His special interests include Yellowstone Park village history, the Howard Eaton Trail, and the maritime history of Yellowstone Lake.

AARON SCHUERR (18, 27) has taken many trips to Yellowstone from his home in Livingston, Montana, to capture the park's varied landscapes in luminous paintings. His art has been featured in *The Montana Quarterly*, *The Pastel Journal*, and *Artist's Magazine*. His work has been shown with the Pastel Society of America, the C.M. Russell Auction, and the Santa Fe Art Auction. He is represented by Legacy Gallery in Jackson Hole, Wyoming, and Scottsdale, Arizona.

NANCY SEILER (19) creates her detailed botanical illustrations in graphite, pen and ink, colored pencil, and watercolor. An experienced instructor, Seiler received her certificate in botanical illustration through the Denver Botanic Gardens. She is a member of the Montana Native Plant Society and the American Society of Botanical Artists.

PAT SHANKS (21) is a geochemist with the U.S. Geological Survey. Since 1997, he has worked in Yellowstone on hot-spring geochemistry in the subaerial environment throughout the park, as well as on the floor of Yellowstone Lake. He has also worked extensively on hydrothermal systems on the continent and ocean floor, sea-floor hydrothermal vents, and black smokers. He specializes in water-rock reactions. Pat was a professor at the University of Wisconsin and University of California-Davis before coming to the USGS.

CHRISTINE SMITH (15) runs her own Gardiner-based photography business. She previously taught high school wildlife biology and worked in Yellowstone National Park organizing and regulating research in the park. She has lived in the Yellowstone area since 1994 and has worked with the Yellowstone Wolf Project since 1999.

DOUGLAS SMITH, PH.D., (15) leads the Yellowstone Wolf Project. He has published widely on the subject in magazines, books, and scientific journals. He is the co-author of *The Wolves of Yellowstone* and *Decade of the Wolf*, a summary of the first 10 years of wolf recovery in Yellowstone. He also appears in the National Geographic video entitled *Return of the Wolf*.

MEG SOMMERS (27) is an award-winning professional nature photographer who photographs Yellowstone's many wonders year-round. A resident of Cody, Wyoming, she is a knowledgeable naturalist. Her dual passions for both nature and photography combine with her enthusiasm for sharing the magic of it all. She has been a professional photo tour guide in Yellowstone for more than five years.

DAN STAHLER, PH.D., CANDIDATE (22) has studied wolves since 1996. He earned his master's degree studying the relationship between Yellowstone's ravens and wolves and is now researching wolf social dynamics and genetics for his doctorate. He is the project biologist for the Yellowstone Wolf Project, where he helps coordinate and direct research on wolves, their prey, and scavenger communities.

BRUCE THOMPSON, M.S.T., (24) is director of education for Tracy Aviary in Salt Lake City, Utah. He also operates ECOTRACS (Ecology-based Teaching, Resources, and Curriculum Services) to conduct field and indoor natural science programs, interpretive training, educator workshops, instructional design and development, and education research throughout the Intermountain West. Bruce is an avid animal tracker and has been combining photography and natural science education for more than 25 years.

BRIAN THORPE, M.S. (19) 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.

LINDA THURSTON, M.S., (18) has worked on wolf management and research throughout the Rocky Mountains of the U.S. and Canada, including the wolf recovery project in Yellowstone, a wolf-elk research project near Banff National Park, addressing livestock depredation issues in Montana, and monitoring wolf populations in the Clearwater National Forest. She earned her masters degree from Texas A&M University for studying wolf-denning behavior in Yellowstone.

RHEA TOPPING (19, 20, 23) is certified as a master casting instructor worldwide by the Federation of Fly Fishers and was named Woman of the Year by that organization in 1999. She has been an Institute instructor since 1998 and instructs and runs angling trips worldwide under the company name Mayfly Adventures. Rhea is the author of *Rod Rage: A Guide to Angling Ethics*, the first book written on fly-fishing etiquette, and recently produced her first DVD, *The Double Haul*.

JON TRAPP, M.A., (12, 25) served as a wolf biologist for Montana Fish, Wildlife & Parks and has worked for the Mexican Wolf Program in Arizona, the Nez Perce Wolf Program in Idaho, and for the U.S. Fish and Wildlife Service on Wyoming wolf management. 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. Jon is also a wildland firefighter near Yellowstone.

DAN TYERS, PH.D., (12) has been involved in wildlife research and management in the Yellowstone area more than 30 years. Currently, he is the district wildlife biologist and program manager for wildlife, wilderness, and trails for the Gardiner Ranger District, Gallatin National Forest. His doctoral research involved the winter ecology of moose in the Northern Range of Yellowstone.

NATHAN VARLEY, PH.D., (14, 18) is a natural and cultural historian specializing in the Greater Yellowstone Ecosystem, where he has lived almost his entire life. As a wildlife biologist, he has studied many of Yellowstone's large mammals, including elk, wolves, bears, and bison. For his Ph.D. at the University of Alberta, he focused on the effects of wolf restoration on the park's Northern Range elk herd.

PATTY WALTON (22) 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.

ELIZABETH A. WATRY (24) is a graduate student in the History and Philosophy Department of Montana State University. Her masters' thesis is on the history of the Wylie Camping Company, which operated during Yellowstone's stagecoach era from 1883 until 1916. She has been published in numerous publications and is currently writing a book entitled *Women in Wonderland: Lives, Legends, and Legacies of Yellowstone National Park*, which will examine the lives of noteworthy historical and contemporary women who have played a role in Yellowstone.

LEE WHITTLESEY, M.A., J.D., PH.D. (HON.), (18, 23) can tell you who named Old Faithful, when it happened, and probably what the weather was. He is Yellowstone National Park's historian. He has written more than a half dozen books about the park, including *Death in Yellowstone*, *A Guide to Yellowstone Waterfalls and Their Discovery*, and *Storytelling in Yellowstone: Horse-and-Buggy Tour Guides in the Grand Old Park, 1872-1920*. He most recently co-authored *Ho! For Wonderland* and *Images of America Yellowstone*.

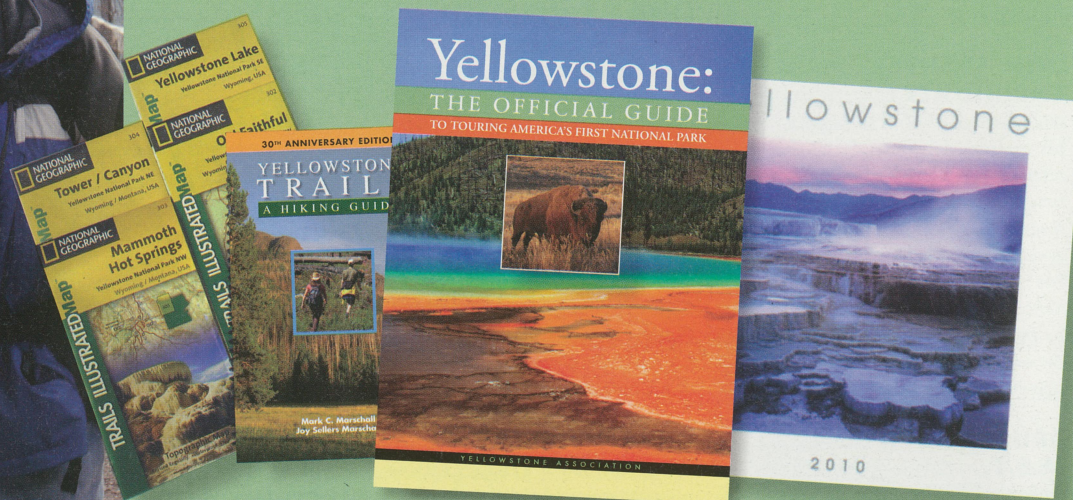
WILDERNESS MEDICINE INSTITUTE (12), an institute of the National Outdoor Leadership School (NOLS), has been a leader in wilderness medicine education since 1976. WMI provides all levels of wilderness medicine training for state and federal agencies, colleges, and outdoor programs throughout the West.

SUSAN ZWINGER, PH.D. (20) infuses her teaching with her enthusiasm, curiosity, knowledge, and extensive art and writing experience. She avidly explores natural areas and environmental issues, bringing them to audiences through her many articles and books. She has published more than 70 poems. Her first of five natural history books, *Stalking the Ice Dragon*, won the 1992 Governor's Writers Award.



Photo: Nick Derene

TWO WAYS YOU CAN HELP YELLOWSTONE...



1. JOIN THE YELLOWSTONE ASSOCIATION

Now that you know about our classes, find out more about the Yellowstone Association. By joining, you'll increase your support for Yellowstone National Park and reduce your class fees. The Yellowstone Association has been the park's official education partner since 1933, providing a wide range of educational programs and services designed to help people understand and enjoy this remarkable place. We believe education is the best way to protect wild places, and we need your help to preserve Yellowstone for future generations. To become a member, please complete the membership section on the Institute registration form on page 34 or join online at www.YellowstoneAssociation.org. You'll receive benefits including a \$10 discount on each Institute course that you attend, a 15 percent discount on products at our Park Store, a 10% discount Yellowstone General Stores, and a subscription to our quarterly magazine, *Yellowstone Discovery*.

2. BUY BOOKS AND GEAR FROM THE PARK STORE

The Yellowstone Association's Park Store features 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—and which will remind you of your time in Yellowstone. To purchase items, please visit the Park Store at www.YellowstoneAssociation.org or call 406-848-2400. Members of the Yellowstone Association receive a 15 percent discount.

Proceeds from memberships and purchases are donated to the National Park Service to support education and research in Yellowstone.

GENERAL INFORMATION

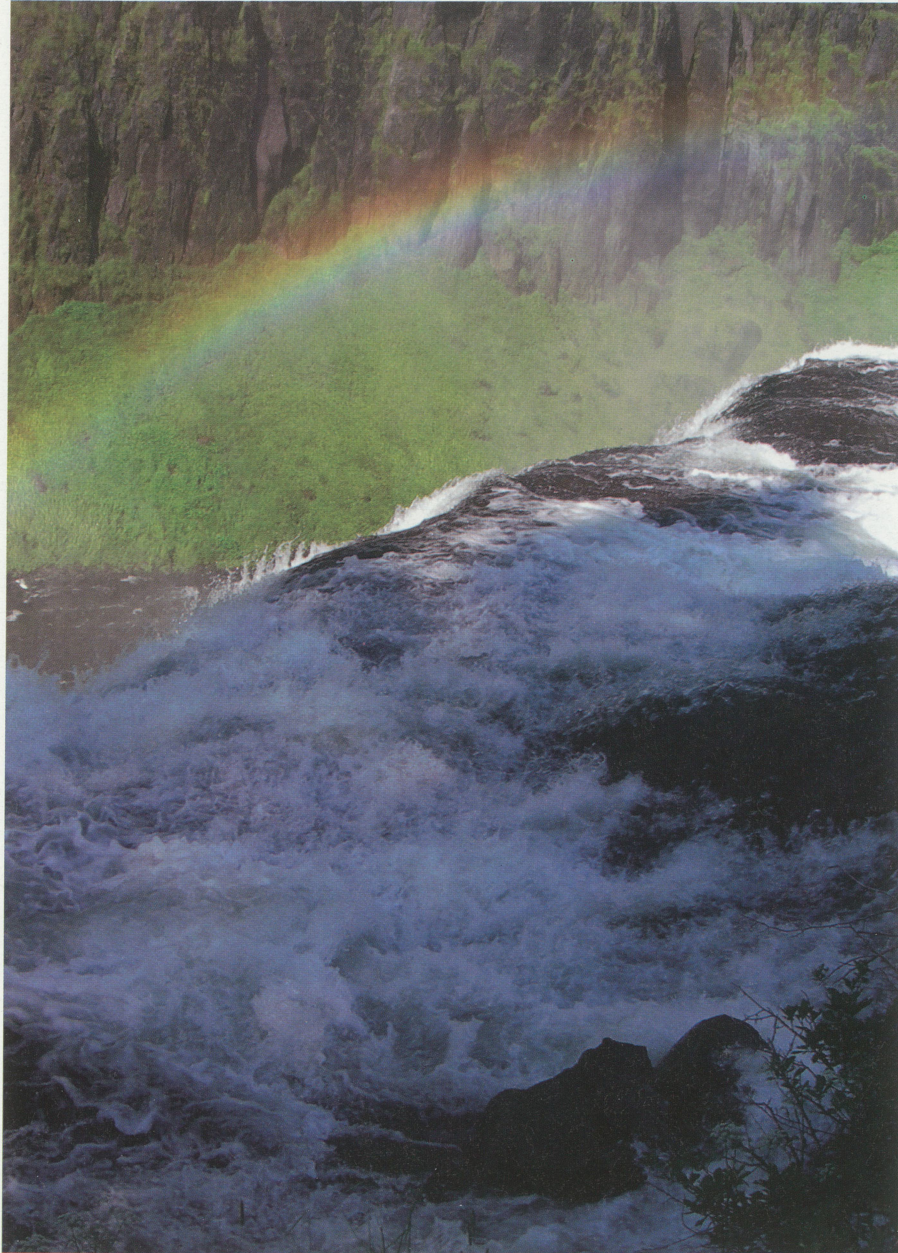


Photo: Bill Mahoney

ALTITUDE

Most of Yellowstone Park is above 6000 feet. If you live at or are coming from altitudes below 5000 feet, allow at least one day to acclimatize before beginning strenuous activity. This will give your body time to begin adjusting to the altitude.

RELEASE FROM LEGAL LIABILITY AND COLLECTION OF HEALTH INFORMATION

On receipt of your completed registration form, we will send you an Assumption of Risks/Release from Liability form. All participants, including minors, are required to sign and return these forms. We will also send a form that will help us identify medical conditions that could be affected by the environment or activity. All information on your health form will remain confidential and will be reviewed only by Institute personnel or a licensed physician.

SAFETY, RESPONSIBILITY, AND RISK

Your safety is important to the Institute. We have established procedures to minimize the potential for medical emergencies and to provide an appropriate response, should an emergency occur. All members of the Institute staff are expected to follow these procedures. Our staff have also received training in driver safety, wilderness medicine, and the use of portable emergency radios.

Once you enroll, you will need to complete a health form and fully and accurately inform Institute staff of relevant medical conditions that could affect your well-being and the well-being of others on your trip. Specifically, we will want to know if you have any conditions that can be aggravated by the environment of Yellowstone (e.g., altitude; dry, hot summer weather; smoke from nearby fires, etc.), by the activity or workload, or that might otherwise cause you to be a risk to yourself or others. The Institute needs and expects you to take an active role in protecting yourself. You will be asked to obtain and arrive with proper clothing and equipment. (A list with recommendations will be provided for your convenience.) Once you arrive, you will be expected to monitor your condition continually, stay hydrated and well-fed, make prudent decisions, and keep Institute staff informed of your status and well-being. If and when you see any type of potential danger, you need to point it out to your course leader and your co-participants.

Even with these combined efforts toward participant safety, it is important that you realize we cannot guarantee your safety. All Institute programs entail inherent risk; many of these risks simply are associated with exercising at moderate altitudes in mountainous or wilderness terrain. Even in our leisurely programs that do not stray far from developed areas, advanced medical care may be significantly delayed.

WEATHER

The weather in Yellowstone Park varies according to the season, but it is dry nearly year-round. Be sure to drink plenty of fluids, which will not only help prevent dehydration, but can assist with acclimatization. If you are coming during a particularly hot or cold time, realize that the temperature extreme can add considerably to the difficulty of the course.

2010 REGISTRATION/MEMBERSHIP FORM

To register for a **LODGING AND LEARNING** program, call 866-439-7375.

To register for a **PRIVATE TOUR**, including lodging at the
Yellowstone Overlook Field Campus, call 406-848-2400.

To register for a **FIELD SEMINAR**, enroll at www.YellowstoneAssociation.org,
call 406-848-2400, or send in your completed registration form.

Name _____

Address _____

City _____ State _____ Zip _____

Home Phone _____ Business Phone _____

Cell Number _____ Email Address _____

☐ I have read the refund policy and understand to receive a refund, I must cancel
at least 60 days before a course and pay \$35 course processing fee.

☐ Check here if you are a current member of the Yellowstone Association or are joining now.

MEMBERSHIP INFORMATION

☐ Renewing ☐ Joining

Memberships are family memberships, and include children through the age of 18. Two
membership cards are usually issued per family. Additional cards are available upon request.

Annual Membership Dues:

☐ Gardner \$35
☐ Gibbon \$50
☐ Firehole \$100
☐ Lewis \$250
☐ Madison \$500

The Yellowstone Society:

☐ Lamar \$1,000
☐ Gallatin \$2,500
☐ Bechler \$5,000

MEMBERS NOTE:

Members receive a \$10 per course
discount. If you are a Yellowstone
Association member, be sure to
deduct \$10 from each course cost
when calculating tuition!

Course #	Title	Dates	Tuition
1.			
2.			
3.			

Lodging:

☐ I want to stay at the Institute cabins at Lamar the following nights at \$30/night.

Dates _____

☐ Male ☐ Female (Please check for cabin lodging.)

☐ My class does not meet at the Lamar facility. See course descriptions for recommended
lodging or contact the registrar.

☐ I will make my own lodging or camping arrangements.

Total tuition fee(s) \$ _____

Cabin fee(s) at \$30 per person per night _____

Membership (optional, see left) _____

Total Enclosed \$ _____

Payment by: ☐ Check ☐ American Express ☐ Discover ☐ MasterCard ☐ Visa

Credit Card# _____ Exp. Date _____

Signature _____

Mail to:

Yellowstone Association Institute
P.O. Box 117
Yellowstone Park, WY 82190

Fax to:

406-848-2847

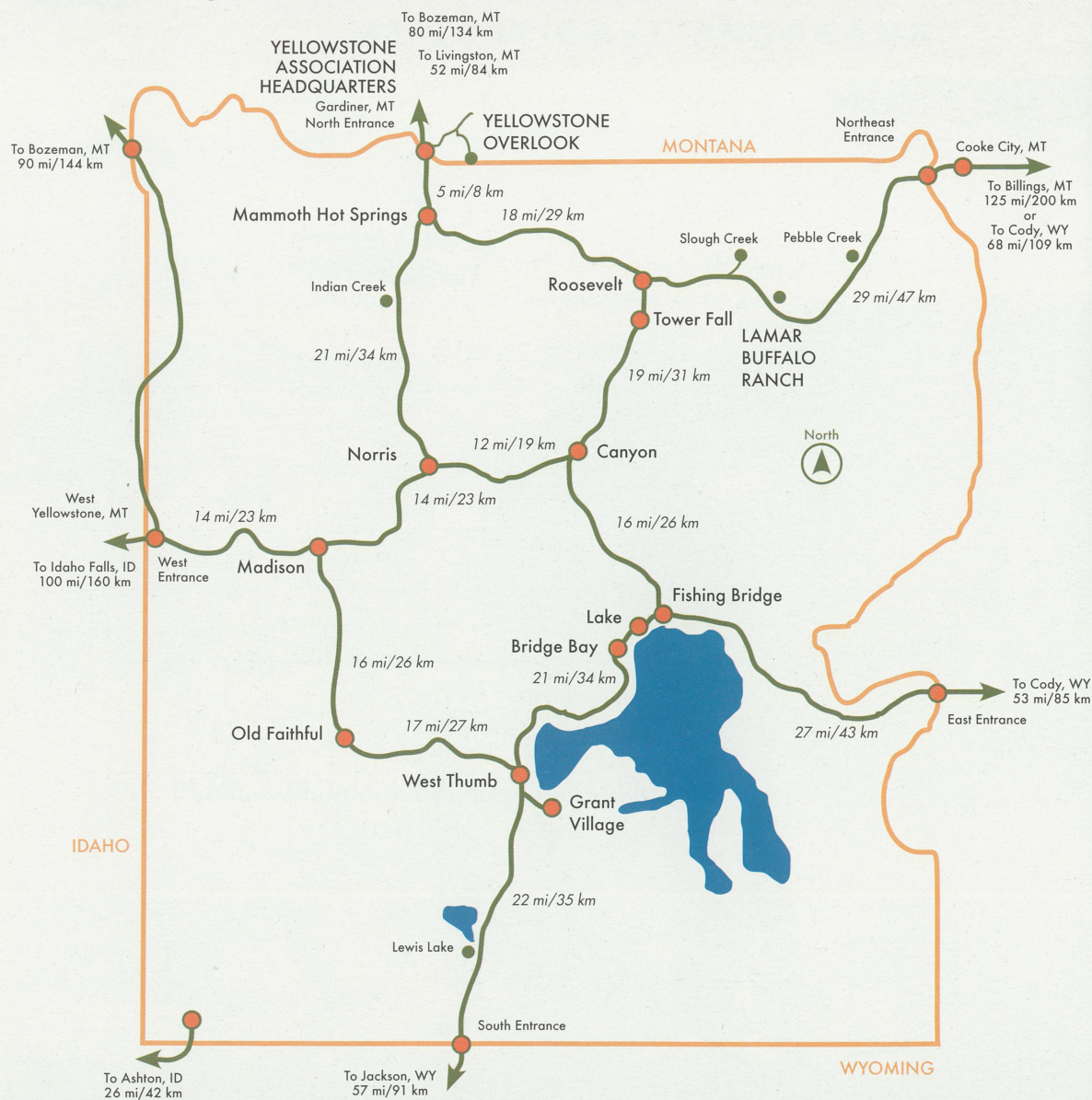
Telephone:

406-848-2400

Please duplicate this form for multiple participants, or go to our website for additional forms.

Visit our website at www.YellowstoneAssociation.org or call 406-848-2400.

TRAVEL INFORMATION



Directory

Camping and Park Information
National Park Service
Visitor Services 307-344-2107
www.nps.gov/yell/

Lodging, Campground, Activity Bookings
Xanterra Parks & Resorts®
866-439-7375
www.YellowstoneNationalParkLodges.com

Wyoming Travel Information
Wyoming Division of Tourism
800-225-5996
www.wyomingtourism.org

Montana Travel Information
Official State Travel Information
800-847-4868
www.visitmt.com

Airports

Distances/Auto Travel Times To Lamar Buffalo Ranch Field Campus

Billings, MT	From Billings via Red Lodge 143 mi. 3 1/2 hrs. via Livingston 207 mi. 3 3/4 hrs.
Bozeman, MT	From Bozeman via Livingston 118 mi. 2 1/2 hrs.
Cody, WY	From Cody via East Entrance 126 mi. 3 hrs. via Northeast Entrance 84 mi. 2 1/4 hrs.
Idaho Falls, ID	From Idaho Falls 240 mi. 4 1/2 hrs.
Jackson, WY	From Jackson 146 mi. 3 1/2 hrs.
West Yellowstone, MT	From West Yellowstone 70 mi. 2 hrs.

Plan on extra driving time in the park. The speed limit is 45 mph or lower. There may also be construction delays. Visit www.nps.gov/yell/planyourvisit/hours.htm, call the National Park Service at 307-344-2107, or check in at a visitor center for up-to-date travel information.

Members of the Yellowstone Association receive a \$10 discount.



YELLOWSTONE
ASSOCIATION
INSTITUTE

P.O. Box 117
Yellowstone National Park
Wyoming 82190

www.YellowstoneAssociation.org

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