

Yellowstone Association



Institute
Summer 2002

Phillips / Reese
YI Collection

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ear Friend of the Institute,

Let us introduce you to the wildest classroom on Earth!

The nonprofit Yellowstone Association Institute offers field courses that provide an inside look at Yellowstone National Park. In this remarkable outdoor setting students gain new appreciation for the value of wild places.

This catalog includes our most comprehensive selection of courses ever, including:

- More than sixty new courses, led by renowned scientists and other park experts, on topics as diverse as wolf recovery and the history of Yellowstone artists.
- Two new "Lodging and Learning" packages based at Yellowstone's historic hotels: *Yellowstone for Families* at Mammoth Hot Springs Hotel and *Roosevelt Rendezvous* at Roosevelt Lodge.
- An expanded selection of backpacking courses which introduce participants to the hidden treasures of Yellowstone's backcountry.

Please join us for an educational adventure in the world's first national park. We think you'll find Yellowstone to be an excellent teacher.

Sincerely,

Jeff Brown

Jeff Brown
Director of Educational Operations

Pat Cole

Pat Cole
Executive Director

P.S. Members of the Yellowstone Association are entitled to tuition discounts and other benefits! Please see page 48 for details.

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.

Institute Staff

Pam Cahill
Institute Operations Manager
Jim Williams
Institute Program Manager
Andy Strattman
Registrar

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> Denotes a NEW class.

● Denotes a ONE-DAY class.

* Denotes classes available for UNIVERSITY CREDIT.

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Sample; page 38, courtesy of Jim Williams;

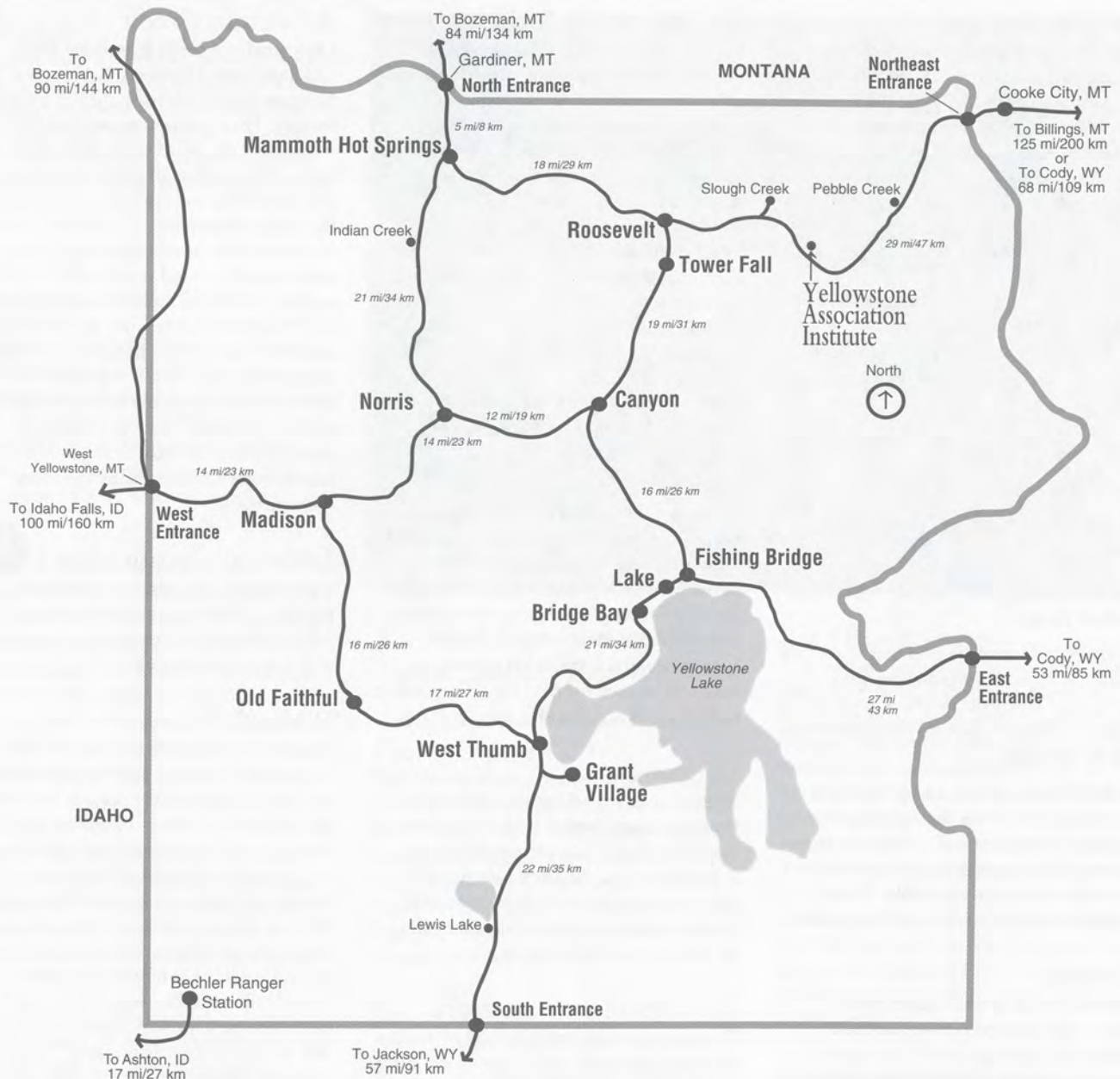
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Productions.

Design: A. Pollard, Livingston, MT



Airports

Billings, MT
Bozeman, MT
Cody, WY
Idaho Falls, ID
Jackson, WY
West Yellowstone, MT

Distances/Auto Travel Times to Yellowstone Association Institute

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

Directory

Camping & Park Information
National Park Service
Visitor Services 307-344-7381
www.nps.gov/yell/

Lodging, Campground,
Activity Bookings
Yellowstone National Park Lodges
307-344-7311
www.travelyellowstone.com

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

Plan on extra driving time in the park. The speed limit is 45 mph.

Registration

Registration for Yellowstone Association members begins January 28, 2002, at 8:00 am, Mountain Standard Time (MST). Non-member registration begins February 4, 2002, at 8:00 am, MST. Most courses are limited to 10 to 13 participants and early registration is advised.

Four Easy Ways to Register

Telephone: Call 307-344-2294, 8:00 am to 4:30 pm, Monday through Friday, MST. Please have your VISA, Discover, or MasterCard number and expiration date ready.

Online: Complete and e-mail the online registration form at www.YellowstoneAssociation.org.

Fax: Complete and fax the registration form on pg 49.

Mail: Complete and mail the registration form on pg 49.

Payment: Immediate payment of the full amount is required to guarantee your reservation. Payments by check must be received within 10 days or your reservation will be cancelled.

Note: Online, fax, and mail registrations must be received after the opening dates and times listed above. The Institute registrar will check availability and confirm registrations as soon as possible. These registrations are not final until confirmed.

Tuition

The costs listed in this catalog are for tuition and required course materials. Unless otherwise specified, the tuition charge does not include lodging, meals, transportation, or university credit fees. There is a \$10 discount for Yellowstone Association members, including those who join when they register.

Scholarships

A limited number of partial scholarships are available for all courses except Lodging and Learning, Educational Adventures, and all outfitted courses (wilderness first aid, horsepacking, and kayaking) through the Institute's Scholarship Fund. Preference will be given to teachers. Please contact us for a scholarship application.

Lodging and Meals

For courses based at the Lamar Buffalo Ranch, lodging is available for an additional fee of \$20 per person per night, and students must bring and cook their own meals. A portion of this fee is contributed to the National Park Service for maintenance of the field campus. For Lodging and Learning packages at park hotels, lodging and some meals are included. For courses with the  symbol, lodging has been set aside at park hotels and must be reserved by course participants at least 30 days in advance. For all other courses, students must make their own arrangements for lodging and meals. (See Nearby Camping, Lodging and Groceries, pg 8.)

Transportation

Students must arrange their own transportation to and from Yellowstone and to the location where the class begins. For those arriving by air, we recommend renting a car or contacting the registrar for information on public transportation. When appropriate, the Institute's 15-passenger vans will be used for field trips. Carpooling may be necessary in some cases.

Location

Most courses are held at the Yellowstone Institute Lamar Buffalo Ranch field campus (see map on pg 5). Some courses are held at park hotels, in the backcountry, or at other locations in the Yellowstone area. Course locations and meeting times are included in each description.

Participant Information

Detailed course information will be mailed to each participant at least four weeks prior to the class.

Insurance and Liability

Participants must provide their own health and accident insurance. Please read and sign the Assumption of Risk and Agreements of Release and Indemnity on the back of the registration form.

Academic Credit

Undergraduate credit is available from Colorado State University (CSU) or Montana State University (MSU) for some courses. These courses are marked with an * on the Calendar of Courses on pages 3 and 4. The number of semester hours and the sponsoring university are included in the course description. On the first day of the course, the participant must fill out a registration form and write a tuition check payable directly to the sponsoring university. Credit fees range from \$55-\$100 per semester hour and are in addition to the tuition and cabin fees. For specific fee information, contact the Institute registrar at 307-344-2294. To receive academic credit, participants may be required to successfully complete exams and other assignments.

Letter of Certification

Upon request, the Institute will gladly provide a letter of course completion, which includes the course title, description, and hours of instruction.

Refund Policy

Payments for Institute courses are fully refundable, less a \$35 per course processing fee, if cancellation takes place at least 60 days before the course. No refunds will be made 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 to another course offered before September 30 of the same year on a space available basis. Cabin fees are 100 percent refundable. The Institute reserves the right to cancel a course up to 30 days before the first class day. If we cancel, you will receive a full refund.

Important:

We regret that the Institute cannot make exceptions to the refund policy for any reason, including, but not limited to, illness, travel delays, personal situations, emergencies, or weather. We strongly urge you to take out accident, baggage, and trip cancellation insurance through a travel agent. Travel insurance can help protect you against financial loss if you must cancel or interrupt your trip.

Altitude

Most of Yellowstone Park is above 6,000 feet. If you are coming from a much lower elevation, it is wise to allow yourself at least one "easy" day to adjust to this altitude before beginning strenuous activity. It is also important to drink plenty of fluids to prevent dehydration.

Children

Children who meet stated minimum age requirements are very welcome in family programs. All other courses are designed for adults; however, children 16 years and older may sometimes participate depending on class content and activities. A participating adult must accompany minors pre-approved by the Institute manager and instructor. Inquire when you register.



Leave No Trace

Leave No Trace (LNT) is a national education program designed to encourage minimum impact skills and ethics among outdoor users. The Institute endorses this program and includes the LNT curriculum in our classes. We also offer certification programs for LNT trainers and master trainers (see pg 37).

Lodging

This symbol indicates courses for which rooms have been set aside at Yellowstone National Park Lodges or other accommodations. Please contact the registrar at 307-344-2294 for reservation information.

Physical Condition

It is important that you accurately evaluate your own physical fitness. Hiking is a major part of almost every course we offer. Classes which involve backpacking, horsepacking, kayaking, or extensive fieldwork will be more demanding. Please read each course description carefully and ask in advance if you have any questions about physical requirements. For backpacking courses see the difficulty ratings on pg 36.

Weather, Clothing, and Equipment

Much class time will be spent outdoors and all courses are held rain or shine. Students should be prepared for a variety of mountain weather conditions, including cold temperatures. Appropriate rain gear, clothing, and footwear are very important. A recommended clothing and equipment list is sent to each course participant, and we are glad to answer specific questions.



Planning Your Visit to the Lamar Buffalo Ranch:

The Lamar Buffalo Ranch Field Campus

The Lamar Buffalo Ranch is our year-round base of operations in Yellowstone's scenic Lamar Valley. This facility includes log guest cabins and a common building with classrooms, kitchen, and showers. Students bring their own food and sleeping bags. Access is via the all-season road from Mammoth to Cooke City.

Log Cabins

Accommodations at the field campus are simple and comfortable. Participants share space in log cabins that include three single beds, a propane heater, and reading lights. The cabins do not have electrical outlets or plumbing. Outhouses are located nearby, and heated bathrooms and showers are always available in the classroom building. Participants must bring a pillow and a warm sleeping bag. The cabin fee is \$20 per night per person.

For courses held at the Lamar Buffalo Ranch, cabins are available to participants on a first-come, first-served basis. Early reservations are advised. Cabin rental for family members of participants may be allowed if space is available.

The Bunkhouse

The historic bunkhouse is located a short walk away from the sleeping cabins and serves as the center of activity at the field campus. The bunkhouse is fully heated and includes two classrooms, a self-service kitchen, and three restrooms with showers. The classrooms have chairs, tables, and a good collection of books and videos about Yellowstone. This building is open around the clock to match the needs of early morning and late evening wildlife watchers. The kitchen table, the back porch, and the outside picnic tables are favorite places for participants to relax and recount daily adventures.

Food and Preparation

Participants are expected to bring and cook their own food. A community kitchen allows you the flexibility of preparing your own meals while enjoying the company of other course participants. We suggest simple meals that can be prepared quickly and easily. The kitchen includes two gas stoves, a microwave, a toaster, and all of the pots and pans, dishes, cooking and eating utensils you will need. We also have three refrigerators and plenty of storage space for non-perishables. The Institute provides spices and hot beverages at each meal, and there is always a pot of hot coffee available for early risers!

continued on next page



Pets, RVs, and Camping

To avoid disturbing other students and resident wildlife, pets are not allowed at the Institute facility or on Institute courses. Park Service regulations prohibit camping and recreational vehicle use at the field campus.

Nearby Camping, Lodging, and Groceries

Camping is available in the National Park Service campgrounds at Slough Creek (7 miles west) and Pebble Creek (9 miles east). Sites at these campgrounds are available on a first-come, first-served basis.

Lodging within the park is available at Mammoth Hot Springs (29 miles west, summer and winter), Roosevelt (11 miles west, summer only), Canyon (30 miles southwest, summer only), and other locations. Space is limited and reservations should be made as soon as possible through Yellowstone National Park lodges at 307-344-7311.

A limited supply of groceries is available within the park in Hamilton Stores at Mammoth Hot Springs (29 miles west, open all year), Roosevelt (11 miles west, summer only), Canyon (30 miles southwest, summer only), and other locations.

Additional services are available in the gateway communities of Gardiner, Montana, (34 miles west) and Silver Gate/Cooke City, Montana, (23 miles east). Gardiner is a larger town, with year-round motels, restaurants, gas stations, a laundromat, and a grocery store. Silver Gate and Cooke City are somewhat smaller and more seasonal, with motels, restaurants, gas stations, and convenience stores.

Winter at the Field Campus

Winter is a particularly enjoyable time to visit the field campus. Beginning in 2002, the Institute will print a separate winter catalog covering the period November to April. That catalog will be mailed in August of 2002.



Lodging and Learning Packages at Park Hotels

The Institute is pleased to offer a variety of educational programs in cooperation with Yellowstone National Park Lodges.

Participants in these programs enjoy the best of both worlds. During the day, they explore the park with a fun and knowledgeable naturalist from the Institute. Each night, they return to excellent meals, comfortable accommodations, and entertaining evening programs at historic park hotels.

Full descriptions of these programs are available on our website at www.YellowstoneAssociation.org.

For reservations, please contact Yellowstone National Park Lodges at (307) 344-5566.

Summer 2002 Packages:

Trails Through Yellowstone

Join an Institute naturalist for four days of hiking, wildlife viewing, and discovery in the world's first national park. Carefully chosen hikes explore Yellowstone's diverse landscapes, from the geyser basins around Old Faithful to the Grand Canyon of the Yellowstone. An evening wildlife viewing expedition to Lamar Valley is dedicated to searching for elk, bison, grizzly bears, wolves, and other park denizens. This is an active program and participants must be prepared for daily hiking.

Dates:

Offered each week (Sun-Thurs.) from May 26 through September 26, except the week beginning July 14.

Maximum Group Size: 12

Minimum Age: 12

Package Includes:

- Expert instruction by Institute naturalist/guide
- Lodging with private bath at Mammoth (two nights) and Grant (two nights)
- Four breakfasts and four box lunches per person
- In-park van transportation
- Optional evening programs



Rates:

\$523 Double Occupancy
(Member's rate \$513)

\$703 Single Occupancy
(Member's rate \$693)

Yellowstone for Families

This is a family learning adventure that brings parents and children together in the shared discovery of Yellowstone National Park. Guided by a knowledgeable Institute naturalist, families enjoy activities including animal tracking, wildlife watching, photography, educational videos, painting, and hiking. Over the course of the four days, parents help their children complete the requirements of the National Park Service's Junior Ranger program. This is an active program and participants should be prepared for daily hikes.

Dates:

Offered each week (Thurs. to Mon.)
from June 20 through August 26.

Maximum Group Size: 13

Audience: Families with children
ages 8-12



Package Includes:

- Expert instruction by Institute naturalist/guide
- Lodging with private bathroom at Mammoth (four nights)
- Four breakfasts and four box lunches per person
- In-park van transportation
- Optional evening programs

Rates:

\$523 Double occupancy
(Member's Rate \$513)

\$703 Single occupancy
(Member's Rate \$693)

\$316 Each Child
(Member's Rate \$306)

Fall 2002 Package:

Roosevelt Rendezvous

Celebrate the joys of Yellowstone in autumn, including bugling elk, splendid fall foliage, and crisp, clear air. The Roosevelt Rendezvous is a four-day educational adventure featuring naturalist-led field trips by day and entertaining educational programs at night. The daily selection of small group field trips includes activities for a variety of interests and abilities. Your group will enjoy exclusive use of rustic Roosevelt Lodge, including buffet meals in the lodge dining room and comfortable accommodations in individual guest cabins. Enjoy this special season with us at the First Annual Roosevelt Rendezvous!

Dates:

Six sessions: Sept. 5-9
Sept. 9-13
Sept. 13-17
Sept. 17-21
Sept. 21-25
Sept. 25-29

Maximum Group Size: 52

(Participants will break into small groups for daily field trips.)

Minimum Age: 12

Package Includes:

- Expert instruction by Institute naturalist/guides and guest speakers
- 4 nights lodging in a private cabin at Roosevelt Lodge
- Breakfast, lunch, and dinner daily
- In-park van transportation
- Optional evening programs

Rates:

Single: \$558.00 per person
(Member's rate \$548.00)

Double: \$458.00 per person
(Member's rate \$448.00)

Triple: \$438.00 per person
(Member's rate \$428.00)

Quad: \$428.00 per person
(Member's rate \$418.00)



Educational Adventures



Educational adventures are personal natural history tours for families and other small groups. An experienced Institute naturalist will meet you at a predetermined location and join you in your vehicle for a private introduction to park wildlife and ecology. Our instructors enjoy sharing their knowledge with visitors of all ages. Programs are tailored to the interests of each group and may include hiking, wildlife watching, and/or driving tours.

Educational Adventures are available year-round. We will offer one trip daily and reservations are required.



The program cost includes all instruction and use of professional spotting scopes. Participants provide their own vehicle, meals, personal clothing and other equipment.

A full description of this program is available on our website at www.YellowstoneAssociation.org.

For reservations, please contact the Institute registrar at (307) 344-2294.

Two options are available:

Morning or Evening Wildlife Watching

The best times to see wildlife are at dawn and dusk, and you will be there to see the action!

The morning option begins with a pre-dawn drive to the Lamar Valley so that you will be in the best position to see wildlife at first light. Late morning is usually spent on a short hike or driving tour. The evening option begins with the short hike or driving tour, followed by wildlife watching until nightfall.

Dates:

Available year-round

Hours:

Approximately 6 hours

Rates:

\$165 for up to four people
(Member's rate \$155)

\$25 for each additional person

All-Day Wildlife Watching

This program is for serious wildlife watchers who want to take full advantage of daily viewing opportunities. The group gathers for early morning viewing, takes a break of 4-6 hours during the midday, and gathers again for evening viewing. Another option is morning viewing followed by a long hike ending in the late afternoon or early evening.

Dates:

Available year-round

Hours:

Approximately 8 hours

Rates:

\$210 for up to four people
(Member's rate \$200)

\$25 for each additional person





Inspiration Yellowstone Arts Workshops

The Yellowstone National Art Trust and the Yellowstone Association Institute are proud to offer Inspiration Yellowstone, a series of public art workshops taught by nationally known artists. The Trust is a non-profit organization formed to support cultural endeavors relating to Yellowstone National Park including the creation, purchase, and public display of works of fine art on or about Yellowstone.

Handling the Water in Watercolor

May 10-13 (#504)

Limit: 22

Location: Old Faithful

Instructor: Nita Engle

\$595 (Member's fee \$585)

NEW

Move from freedom to control in this level one class designed for the painter, beginning or advanced, who will be exposed for the first time to Nita's methods and techniques. This workshop will demonstrate how to control the water in watercolor, edge control, color transition, wide use of textures, and the critical element of achieving a sense of light. Nita will alternate field excursions with demonstrations and studio working time. Get comfortable with squirting, texturing, throwing, salting, and sprinkling! Students will have an opportunity to photograph some of the splendid landscapes near Old Faithful and process those photographs in order to work from personal compositions.

We will meet in the lobby of the Snow Lodge at 9:00 am on the first day and end at 4:00 pm on the last day. Rooms have been set aside at Old Faithful—contact registrar for reservation information.

Plein Air Painting in Yellowstone

July 12-14 (#721)

Limit: 13

Location: Old Faithful

Instructor: Paco Young

\$495 (Member's fee \$485)

NEW

This intensive hands-on course in the techniques of oil landscape painting will include demonstrations, discussions of composition, color mixing and application techniques, suggestions for capturing light; and other critical elements in producing landscape paintings in the field. Locations will vary from day to day and students should expect to produce one or two small paintings each day. Come prepared to work hard, laugh a lot and learn more in a few days than you thought possible. This course is recommended for highly motivated painters of all levels. Students should bring field easels.

We will meet at 9:00 am at Old Faithful on the first day and end at 5:00 pm on the last day. Rooms have been set aside at Old Faithful—contact registrar for reservation information.

Explore the Power of Woodblock Printing

August 30–September 2 (#829)

Limit: 20

Location: Old Faithful

Instructor: Andrea Rich

\$545 (Member's fee \$535)

NEW

Few places can rival Yellowstone as a site to inspire artistic creativity. On our first day we will draw from the park's spectacular landscapes and abundant wildlife. Participants will begin by creating an image using the media they are most comfortable with. With our images carefully planned, we will explore the many possible strategies for separating colors into multiple blocks. On our second day we will learn the techniques of carving and registration. Together, we will work from conception through the carving and printing process, with the end result being your own original multi-color woodblock prints created with oil based inks. Your skill level will increase rapidly as remove the surface not needed leaving only what is essential to your vision. Participants will leave with all the information they need to proceed independently in this unique and powerful medium. The course is recommended for beginning as well as advanced artists.

We will meet at 8:30 am in the lobby of Old Faithful Inn on the first day and end at 3:00 pm on the last day. Indoor classroom sessions will alternate with field excursions. The course fee includes \$100 in materials and inks.

Waterfowl Identification & Ecology

May 3-5 (#501)

Limit: 10

Location: Mammoth Hot Springs

Instructor: Terry McEneaney

\$135 (Member's fee \$125)

NEW

Loren Eisley once wrote "If there is magic on this planet it is contained in water." This course will explore the magic of aquatic environments, and the unique beauty and ecology of birds in these environments. Spring is perhaps the best time to study waterfowl due to their abundance and striking plumage. Learning the nuances of waterfowl identification is one of the fundamental building blocks in developing good birding skills. We will explore the differences between the North American Anatiformes, ranging from common to extremely rare species of ducks, geese, and swans.

We will meet in the Mammoth Hot Springs area at 7:30 pm for an introductory lecture on the first day and end mid-afternoon the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information.

Wildlife Watching in Grizzly Country

May 7-9 (#502)

Limit: 13

Location: Mammoth Hot Springs

Instructor: Gene Ball

\$180 (Member's fee \$170)

Spring is a superb time for viewing wildlife in Yellowstone. Field observation will be the major goal and activity of this introduction to the park's many wildlife species. Methods of unobtrusive observation and the ethics of interaction with wildlife will be central themes. The flexible schedule of daily field trips allows for discussions on various wildlife topics, issues, and controversies. The opening session will focus on tips for the best use of scopes and binoculars. Be prepared for occasional moderate hikes at higher elevations.

We will meet in the Mammoth Hot Springs area at 10:00 am on the first day and end with an optional evening outing on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information.



Spring Wildlife on the Northern Range

May 9-11 (#503)

Limit: 13

May 12-14 (#505)

Limit: 13

Location: Mammoth Hot Springs

Instructor: Jim Garry, M.S.

\$180 (Member's fee \$170)

Winter departs slowly from Yellowstone, but with spring comes new life and a wildlife show second to none. There are wolf pups in dens and bear mothers with new young in tow. Red bison calves frolic in the herd and the elk come to term. Small hibernators scamper about and birds return from the south. We will spend time viewing and learning about the wildlife on Yellowstone's Northern Range, including one of the world's great wildlife viewing areas, the Lamar Valley, where we may see elk, bison, coyotes, bears, and wolves. Bring your binoculars and be prepared for short hikes in easy terrain.

We will meet in the Mammoth Hot Springs area at 9:00 am on the first day and end late afternoon on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information.

Spring Wildlife on the Northern Range

May 12-14 (#505)

(see description above)

Finding the Picture Within a Picture

May 16-18 (#506)

Limit: 13

Location: Old Faithful

Instructor: Sandra Weber

\$190 (Member's fee \$180)

NEW

Many who photograph Yellowstone are understandably attracted to its big sky and large-scale scenes. However, there's another side to the park that is easy to miss: the picture within a picture. Join this three-day adventure in looking for the small-scale, close-up views of Yellowstone that highlight the region's infinite variety in plants, animals, and geological features. This intermediate class in 35mm color photography will include a moderate hike (1 to 4 miles) each day with hands-on experience shooting pictures around the Old Faithful area. We will also spend 2 to 3 hours of classroom time covering basic concepts of close-up photography with slides and handouts.

We will meet in the Old Faithful area at 7:30 am on the first day and end late-afternoon on the last day. Rooms have been set aside at Old Faithful—contact registrar for reservation information. Fee includes \$10 for course materials.

Spring Returns to Yellowstone

May 18-20 (#507)

Limit: 13

Location: Lake/Canyon

Instructor: Jim Garry, M.S.

\$180 (Member's fee \$170)

Yellowstone comes alive in springtime, and we'll be there to witness the rebirth. Through daily field trips and discussions, we'll take a closer look at the wildlife, geology, and history of the Yellowstone Lake area. In Hayden Valley, we'll search for bears that have recently emerged from their dens and bison that have just been born. On the shores of Yellowstone Lake and at the Grand Canyon of the Yellowstone River, we'll see geological forces at work. At the Lake Hotel, we'll imagine what Yellowstone was like in earlier years. We may even take in a geyser or two. Be prepared for short hikes in easy terrain.

We will meet in the Lake area at 9:00 am on the first day and end late afternoon on the last day. Rooms have been set aside at Lake—contact registrar for reservation information.

Wolf Watching in Yellowstone

May 19-21 (#508)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Norman A. Bishop

\$180 (Member's fee \$170)

Yellowstone National Park may be the best place in the world to watch wolves. Bring your binoculars, warm clothing for freezing mornings, and join the fun. We'll consider the scientific and social reasons why some Americans have alternately reviled and revered wolves. We'll also think through the process of justifying their restoration as an experimental population under the Endangered Species Act. Find out what the wolves eat, how they kill their prey, which does the killing, and what effect wolves have on other animals, including livestock outside the park. Practice patience at the roadside watching for wolves at dawn and dusk, and discuss them while watching videos and slides in the classroom at midday.

Bring a scope and tripod if you have them. We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 3:00 pm on the last day.

The Ecology of the Greater Yellowstone Grizzly Bear

May 19-21 (#509)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending

Instructor: Doug Ouren

\$180 (Member's fee \$170)

How far does a grizzly bear travel in a day? Do grizzlies forage during the nighttime hours? How do human activities like hunting and logging influence grizzly bear habitat selection? These are important ecological questions whose answers will help us to preserve grizzly bear habitat. To address these questions, we will use state-of-the-art research methods including the application of satellite based global positioning systems (GPS), radio telemetry, and satellite imaging, each of which provide data on grizzly bear movements, habitat use and habitat availability. We will see what the landscape looks like from space and how the bear is using that landscape based on GPS locations. We will then use that knowledge on our daily outings to observe grizzly bear ecology in action. Be prepared for moderate hiking.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end by 3:00 pm on the last day.

Coyote Behavior, Ecology, & Management

May 22-24 (#510)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Eric M. Gese, Ph.D.

\$180 (Member's fee \$170)

NEW

The coyote is the most successful canid species in North America—more intelligent, resilient, complex, and flexible than wolves and foxes and, as a result, more numerous and widespread. This course will use classroom sessions and field trips to observe the behavior of these remarkable creatures, examine their role in the ecosystem, and discuss their conflicts with human interests. Topics will include evolution, taxonomy, behavior, ecology, interactions with prey species and other predators, and the relationship between coyotes and humans. Particular attention will be paid to the evolving effects of wolf reintroduction on the coyotes of Yellowstone's northern range. Participants should be able to walk 2 to 3 miles, and be equally adept at standing and patiently watching coyote behavior. Slide shows and videos will be used to supplement direct observation.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.

Ripple Effect: The Ecology of Wolf Restoration

May 22-24 (#511)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Norman A. Bishop

\$180 (Member's fee \$170)

NEW

The restoration of wolves has caused a ripple like a large rock thrown into a small pond and the entire grazer-predator-scavenger food web has felt the effects. At dawn and dusk, we will attempt to observe direct interactions between wolves and other species—wolves chasing elk and bison; face-offs between grizzly bears, coyotes, and wolves; ravens, hawks, and eagles sharing the feast with wolves. In the classroom, we will think together about the interrelationships using illustrated talks and videos. There will be time each afternoon to nap, explore, hike, or read, in preparation for another wolf watching adventure.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 3:00 pm late afternoon on the last day.



Wilderness First Aid

May 25-26 (#512) Limit: 24

Location: Lamar Buffalo Ranch

Instructor: Wilderness Medicine Institute Staff
\$135 (Member's fee \$125)

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. Some of the topics to be addressed are patient assessment, shock, wilderness wounds, fractures and dislocations, hypothermia, heat illness, altitude illness, and bites and stings. Emphasis is placed on learning the principles of medical care rather than memorizing information. May be used to re-certify as a Wilderness First Responder. No previous certification is required.

We will meet in the Lamar Ranch area at 8:00 am on the first day and end at 5:00 pm on the last day.

The Yellowstone Geyser Basins in Spring

May 25-27 (#513)

Limit: 13

Location: Old Faithful

Instructor: Leland Roy Mink, Ph.D.

\$125 (Member's fee \$115)

NEW

Nowhere is the earth's energy expressed more dramatically or clearly than Yellowstone. This course explores how the energy of the earth fuels Yellowstone's geothermal features and examines the geologic structures and processes that determine whether a feature will be a geyser, mud pot, hot spring, or fumarole. Alternating between slide presentations and field trips, the course will help students to better understand, enjoy, and appreciate the wonders of Yellowstone's geyser basins. Be prepared to walk 2 to 4 miles per day on relatively flat trails.

We will meet in the Old Faithful area at 5:30 pm on the first day and end at 5:00 pm on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information.

Conservation of Grizzly Bears in North America

May 28-29 (#515)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Lance Craighead, Ph.D.

\$125 (Member's fee \$115)

NEW

What is the current status of grizzly bears, what are their prospects for the future, and what is necessary to save the great bear in perpetuity? On one hand, the Yellowstone population has increased and the process of removing the bear from the Endangered Species list has begun. On the other are arguments that the short-term rise in the population obscures a more ominous trend toward habitat destruction and potential extinction. What is the real story? This course will give you the information to decide for yourself.

Classroom sessions will explore contrasting visions for grizzlies in the northern Rockies with an emphasis on the different factors that effect grizzly conservation—biology, genetics, public policy, and social values. There will be optional field trips to watch bears in the morning and the evening.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end about 5:00 pm on the last day.

Mammal Tracking: Interpreting Tracks, Scat & Other Sign

May 28-31 (#516)

Limit: 12

July 16-19 (#727)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU

Instructor: James Halpenny, Ph.D.

\$265 (Member's fee \$255)

Mammals are elusive and hard to observe in the wild, but much can be learned from their sign. As a tracker, you will experience the joys of interpreting natural history from sign. Our emphasis will be on tracking as a process for understanding animal behavior rather than on track identification.

Topics include: the roles of natural history and ecology, field notebooks, taxonomy, anatomy, terminology, measurements, track averaging, relative size, estimating track age and speed, print identification, gait patterns, finding clues, and following trails. Slide lectures and laboratories will introduce concepts of gaits, speed, and animal signs. Afternoon field sessions will aid in learning to trail and read stories in tracks.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end about 5:00 pm on the last day. Fee includes \$30 for a copy of *A Field Guide to Mammal Tracking* plus other course materials.



Wolf Recovery in the Northern Rockies

May 30-31 (#517)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: David Gaillard, M.E.S.

\$125 (Member's fee \$115)

NEW

The Yellowstone wolf recovery program generated more public comments than any other natural resource issue in U.S. history. Is it the conservation success-story of the century, or has it brought problems that will only worsen in years to come? What have been the effects of wolf recovery for both people and wolves? Have predictions about effects on the economy and ecology come true? What do we do now that wolves are nearing recovery goals? How many wolves are enough, and where? Join us for a "crash course" on wolf policy in Yellowstone and across the northern Rockies. The format will be presentations and discussions, including plenty of time for observing wolves and other wildlife in Yellowstone.

We will meet in the Lamar Ranch area at 7:00 am on the first day and end late afternoon on the second day.

Wolves—Reality & Myth

May 31-June 2 (#518)

Limit: 12

June 20-22 (#618)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nathan Varley, M.S.

\$125 (Member's fee \$115)

The mythological wolf has guided the human spirit through the ages. Today, in the process of pursuing the Yellowstone wolves, visitors have discovered much about these animals and themselves. Join us in a search for wolves and learn more about our relationship to these controversial carnivores. Immerse yourself in the ecological, cultural, and spiritual realm of the wolf through observations, presentations, and discussions. Plan on being in the field for sunrise and sunset each day. Be prepared for moderately strenuous hikes in the morning or afternoon. In addition to presentations each evening, there will be time for rest and quiet contemplation.

We will meet in the Lamar Ranch area at 7:00 pm on the first day and end at 3:00 pm on the last day.



Mountain Dwellers of the Yellowstone Ecosystem

May 31-June 2 (#519)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU

Instructor: Terry Enk, Ph.D.

\$180 (Member's fee \$170)

Bighorn sheep have long fascinated us with their charismatic physical appearance and ability to thrive in rugged, precipitous terrain. We will delve into the fascinating world of bighorn sheep and explore their natural history and ecology, including their unique adaptations to extreme environments, habitat use, food habits, and relations with other wildlife species (including predators). We will discuss the role of bighorn sheep in early cultures and explore current controversies and management issues. Field observation during day trips is the major focus with some classroom time, too. This course takes place during the bighorn sheep lambing period, and you will have opportunities to observe adult sheep and newborn youngsters. The schedule will be flexible to take advantage of opportunities to observe bighorns in the wild. Be prepared for occasional, easy to moderately strenuous hikes into sheep habitats.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 3:00 pm on the last day.

In Celebration of Birds

June 7-8 (#602)

Limit: 13

Location: West Yellowstone, Montana

Instructor: Katy Duffy, M.S.

\$65 (Member's fee \$55)

Do birds fascinate you? Do sweet bird songs make you smile? Would you like to enhance your knowledge of Yellowstone's winged wonders? Then join us as we observe and enjoy birds on the west side of Yellowstone. Before we take to the field, we will spend an evening reviewing common birds of Yellowstone using slides and mounted birds and focusing on raptors (hawks, eagles, falcons and owls). The following morning we will head out to watch birds, polish our identification skills, and listen to bird songs. We will wrap up our celebration of birds by investigating some aspects of bird basics, including specialized adaptations to habitats, how birds migrate, and why birds sing. Be prepared to walk up to 3 miles on moderate trails.

We will meet at the West Yellowstone Visitor Center at 7:30 pm on the first day at and end the next day at 2:30 pm.

Grizzly Bear Ecology & Management

June 7-10 (#603)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending: U, 1 semester hour, CSU

Instructor: Sue Consolo Murphy, M.S.

\$200 (Member's fee \$190)

Are greater Yellowstone's grizzly bears endangered? What are the biggest threats to their long-term survival? Explore the bears' history and current status through field trips, lectures by researchers and managers, and early morning searches for these magnificent bruins. Walks are not lengthy or strenuous, but may occur in cold or inclement weather; warm clothing and sturdy footwear are essential.

We will meet in the Lamar Ranch area for a picnic at 6:00 pm on the first day and end at 3:00 pm on the last day. Fee includes \$20 for course materials.

Mammals Great & Small

June 8-11 (#604)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 2 semester hours, CSU

Instructor: Don Streubel, D.A.

\$235 (Member's fee \$225)

The ecological role of mammals in the Yellowstone ecosystem is the focus of this course. We will study large and small mammal behavior, factors affecting their distribution and abundance, and their management in different parts of the park. Fieldwork and early morning and evening observations of elk, bison, bears, bighorn sheep, pronghorns, ground squirrels, pikas, and possibly wolves will be emphasized. No specific biological background is required, but enthusiasm and a desire to enjoy long hours in the field with animals are a prerequisite. Be prepared for moderate, but not strenuous hiking.

We will meet in the Lamar Ranch area at 8:30 am on the first day and end late afternoon on the last day.

Amphibians & Reptiles of the Greater Yellowstone Ecosystem

June 11-13 (#606)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending

Instructors: Charles R. Peterson, Ph.D.

& Debra A. Patla, M.S.

\$220 (Member's fee \$210)

The objectives for this course are to develop: (1) the ability to identify amphibians and reptiles in the Greater Yellowstone Ecosystem; (2) basic knowledge of their natural history; (3) an appreciation of the importance of amphibians and reptiles; and (4) an understanding of conservation threats and actions. Course activities will include field trips and lectures illustrated with slides, recordings, and live animals. There will be opportunities to photograph live animals. Moderate hiking in hilly terrain will be required for the field trips. We hope to observe the following species: tiger salamanders, boreal toads, boreal chorus frogs, Columbia spotted frogs, sagebrush lizards, bull snakes, wandering garter snakes, and prairie rattlesnakes.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end around 5:00 pm on the last day. Recommended reading: *The Amphibians & Reptiles of Yellowstone and Grand Teton National Parks*, by C. R. Petersen and E. D. Koch. Bring hip waders if you have them. Fee includes \$20 for course materials.



The Ecology Of Yellowstone Birds

June 11-13 (#607)

Limit: 13

Location: Old Faithful

Credit Pending

Instructor: Jay Rotella, Ph.D.

\$125 (Member's fee \$115)

NEW

The goals for this course are: (1) to understand the biology and identification of Yellowstone's bird species, (2) to understand the factors that affect how bird species are distributed across the Greater Yellowstone area, and (3) to discuss ways that humans can ensure that bird populations endure in a rapidly changing world. Alternating between short classroom sessions and visits to a variety of key bird habitats, we'll see and discuss many of the real-world challenges that birds face in today's environment. Participants should be able to hike 0.5 miles. Slide shows and videos will be used in the class.

We will meet in the Old Faithful area at 6:00 pm on the first day and end late afternoon on the last day. Rooms have been set aside at Old Faithful—contact registrar for reservation information.



Bears: Bones, Signs & Stories

June 12-15 (#608)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: 1 semester hour, MSU, CSU

Instructors: Elaine Anderson, Ph.D., James

Halfpenny, Ph.D., & Jim Garry, M.S.

\$275 (Member's fee \$265)

Ursophiles (Greek for "bear lovers") unite! Supplement your knowledge of bears with a unique triad of instructors. From Dr. Elaine Anderson's lectures you will learn the evolutionary history of carnivores, especially ursids, as she talks about fossil and recent bears—their bones and their distribution. In lectures and the field, Dr. Jim Halfpenny will discuss modern bears: their signs, ecology, and management. During evening field trips, Jim Garry will explore the vast and fascinating folklore of the bear, while examining the bear's habitat and behavior. Half-day lectures will be supplemented by short field trips to study bear sign and ecology. At evening programs, we will share worldwide bear lore. Optional sunrise field trips will be available to look for bears.

We will meet in the Lamar Ranch area at 9:00 am the first day and end late afternoon on the last day. Fee includes \$20 for course materials.

Introduction to Yellowstone's Birds

June 14-16 (#609)

Limit: 12

Location: Lamar Buffalo Ranch
Credit Pending

Instructor: John Carlson, Ph.D. candidate
\$180 (Member's fee \$170)

NEW

This course will teach you how to identify the birds of Yellowstone and give you the skills to identify birds no matter where you are. But this course is more than just identification; we will also closely examine some of the more common species in Yellowstone, learn which birds live in particular habitats in Yellowstone and why, and discuss other aspects of bird behavior. Just bring your bird book, binoculars, and an interest in learning more about the avian world around you.

We will meet in the Lamar Ranch area at 7:00 am on the first day and end at 3:00 pm on the last day.

Day Hiking—A Trail Time Forgot

June 15 (#610)

Limit: 13

Location: Blacktail Ponds/Mt Everts

Instructor: Orville E. Bach Jr., Ed.D.

\$65 (Member's fee \$55)

Spectacular lakes, vistas, wildflowers, and wildlife-viewing opportunities are in store as we explore this seldom-visited region of Yellowstone's wild backcountry. Our hike starts near the Blacktail Ponds and winds up and over Mt. Everts, concluding at its northern base. We will follow old Army trail blazes, backed up with our trusty compasses and global positioning systems, and discuss Yellowstone's fascinating natural and human history along the way. Our hike will climb about 1000 feet and cover 8 miles so participants should be in good physical condition. As always, be prepared for changes in weather.

We will meet in front of the Albright Visitor Center at Mammoth Hot Springs at 7:30 am and end late afternoon.

Introduction to Wolf Watching

June 16 (#611)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Nathan Varley, M.S.

\$65 (Member's fee \$55)

NEW

Discover the excitement of wolf watching in Yellowstone! Packed with information, the course will begin with classroom presentations on the momentous history of wolf recovery, recent scientific research discoveries, and the contentious management of these controversial predators. Midway through the afternoon, we will go outside for short, moderately strenuous hikes to ecologically or historically significant locations. After a dinner break, the evening excursion will provide a good opportunity to locate and watch wolves and other wildlife.

We will meet at 1:00 pm in the Lamar Ranch area and end at approximately 10:00 pm.

The Evolution, Ecology & Future of the Wolf Family

June 17-19 (#613)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU

Instructors: Elaine Anderson, Ph.D.,

& James Halpenny, Ph.D.

\$220 (Member's fee \$210)

Dire, gray, red, and timber wolves, coyotes, and foxes: these canids have all roamed North America. Some still survive here in spite of their human cohabitants. How did they evolve and where do they fit in the overall scheme of things? Where does the domestic dog fit in? What is the modern ecology of North American wolves? How do we study these animals in the field? What is happening with the dynamic Yellowstone wolf reintroduction? Will wolves survive the steadily increasing human population? Join Elaine, carnivore paleontologist, and Jim, carnivore ecologist, to answer these and more questions.

Optional sunrise and evening field trips emphasizing wolf observation and reintroduction into Yellowstone will supplement morning and afternoon lectures.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end about 5:00 pm on the last day. Fee includes \$20 for course materials.

The National Park Idea: Then & Now

June 18-20 (#614)

Limit: 13

Location: Mammoth Hot Springs

Credit Pending

Instructor: Mike Yochim, M.S.

\$180 (Member's fee \$170)

NEW

What is the purpose of Yellowstone National Park? Is it a tourist playground, a wilderness preserve, an economic engine, or something else? At base, these are questions about what is called "the park idea"—what a National Park is and, more importantly, what it ought to be. This course will explore the history of the national park idea as it pertains to Yellowstone National Park with an emphasis on the landmark political conflicts that changed the park idea and, in the process, Yellowstone itself. We will examine these issues with visits to the sites of past and present management controversies, short hikes (2 to 4 miles), and slide presentations.

We will meet at the Mammoth Hot Springs Hotel at 8:30 am on the first day and end late afternoon on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information.



Predator-Prey Systems

June 19-21 (#615)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Mark S. Boyce, Ph.D.

\$180 (Member's fee \$170)

NEW

Immerse yourself in the principles of predator-prey dynamics as we examine the effects of keystone predators (especially wolves and bears) on ungulate prey populations. We will use computer models to explore the dynamics of predator-prey systems in the Greater Yellowstone Ecosystem and we will have early-morning field trips looking for wolves and grizzly bears. Lectures will provide an overview of current research programs on predator-prey systems in the Greater Yellowstone area.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day. If available, students are encouraged (but not required) to bring PC-based laptop computers.

Grizzly & Black Bear Ecology & Management

June 20 (#617)

Limit: 12

Location: Lamar Valley/Antelope Creek

Instructor: Kerry A. Gunther, M.S.

\$65 (Member's fee \$55)

At once intelligent, nurturing, ferocious, and fragile, the grizzly bear is one of the most interesting and complex mammals in North America. This introductory course explores the behavior and management of the grizzly bear with particular emphasis on food habits, habitat use, predation behavior, and bear-human interactions.

Beginning in the morning, we will discuss grizzly bear biology and management and attempt to view bears in the Lamar Valley and Antelope Creek areas. With some luck and the aid of Institute spotting scopes, we will have some exciting bear viewing. In the late morning or early afternoon, we will adjourn to the Lamar Buffalo Ranch for a slide presentation on the bears of Yellowstone. Pack a lunch and bring rain gear in case of inclement weather.

We will meet at the Lamar Ranch area at 6:00 am and end at 2:00 pm.

Wolves—Reality & Myth

June 20-22 (#618)

(see description on pg 15)

Birding by Jizz

June 21-23 (#620)

Limit: 8

Location: Lamar Buffalo Ranch

Instructor: Terry McEneaney

\$135 (Member's fee \$125)

NEW

To improve their identification skills, modern birders have borrowed a trick from World War II British fighter pilots. The British pilots learned to identify different types of military aircraft by their general impression and shape (GIS), or 'Jizz.' In this course, we will learn to identify birds by jizz, emphasizing impression, shape, behavior, and flight and de-emphasizing the conventional indices of size, color, and pattern. This approach can improve your ability to identify birds that are moving too quickly to allow fine distinctions of color, size, and pattern. Beginner, intermediate, and advanced birders will all have an opportunity to learn something. However, due to the wide spectrum of student birding skills, the curriculum will focus on a more intermediate skill level. The bottom line is that we are going to have fun.

We will meet in the Lamar Ranch area at 7:30 pm on the first day for an introductory lecture and end mid-afternoon on the last day.



Exploring Yellowstone by Map & Compass

June 22 (#621)

Limit: 13

Location: Old Faithful

Instructor: Orville E. Bach, Jr., Ed.D.

\$65 (Member's fee \$55)

Yellowstone's off-trail backcountry contains an abundance and variety of unique and seldom-visited natural phenomena, including waterfalls, thermal areas, and lakes, which become accessible with the proper use of a map and compass. Participants will become proficient in reading a topographic map and using a compass by actually setting and following compass courses to some remote lakes and historical sites in the Old Faithful area. Maps and compasses will be provided. Participants should pack a lunch and bring rain gear in the event of inclement weather.

We will meet at the Old Faithful Visitor Center at 9:00 am, spend the day in the field, and end at 4:00 pm.

Wildflowers in the Mammoth Area

June 23 (#622)

Limit: 13

Location: Mammoth Hot Springs

Instructor: William C. Edwards, Ph.D.

\$65 (Member's fee \$55)

Over 1,000 different kinds of plants have been identified in the Greater Yellowstone Ecosystem, adding to the visual splendor of the park. Many of them grow in the Mammoth area. Join us as we seek them out in their natural habitats in field, forest, and along streams. Marvel at the visual spectrum they display, learn about their uses and how they were named, and discover how you can identify other flowers you may find in the park. This is a beginning class for those who have very little background in flower identification.

We will meet in the Map Room of the Mammoth Hotel at 8:30 am for a short orientation. Then we will take several short hikes in easy terrain in the Mammoth area returning to the hotel by 5:00 pm.



Wild Edible Plants & Medicinal Herbs

June 23-25 (#623)

Limit: 13

Location: Squirrel Meadows, Targhee

National Forest, Idaho

Credit pending: U, 1 semester hour, CSU

Instructor: Wayne Phillips

\$190 (Member's fee \$180)

The blue camas meadows, ponds, aspen groves, and coniferous forests in the Bechler area between Yellowstone and Grand Teton National Parks were an important food and medicine gathering area for early Americans. This is an exceptional area to study the edible and medicinal properties of many native plants of the West. Field identification of wild plants, major poisonous plants of the area, and gentle-harvesting techniques will be emphasized. Participants will learn to develop their own wild food meals and herbal preparations.

We will start from a Forest Service cabin at Squirrel Meadows, on the road between Ashton, Idaho, and Flagg Ranch, near the South Entrance to the park. Be prepared for short, leisurely walks of 1 to 3 miles with an elevation gain/loss of 300 feet.

We will meet in Ashton at 8:00 am the first day and end late afternoon on the last day. Participants should come prepared to camp out, or stay in a motel in Ashton, which is less than an hour away. Fee includes \$10 for course materials.

Plant Eaters of the Yellowstone

June 23-25 (#624)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU

Instructors: Harold Picton, Ph.D. & Terry Enk, Ph.D.

\$200 (Member's fee \$190)

Much of the wildlife viewing excitement in Yellowstone is provided by its eight species of large herbivores. Join us as we discover the intricacies of the biology of these species and how together they form a complex and dynamic ecosystem. Through field observation, you will examine their special adaptations and the roles that they serve as predators upon the plant community and as prey for the carnivores. You will also learn how the "part herbivores" of the bear world fit into the system. Featured species of the Yellowstone area include: white-tailed deer, mule deer, pronghorn antelope, bighorn sheep, mountain goats, moose, elk, bison, black bears, and grizzly bears.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end late afternoon on the last day.

Cougars—Ghosts of the Rockies

June 24-25 (#626)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Toni K. Ruth, Ph.D. candidate

& Polly C. Thornton, M.S.

\$125 (Member's fee \$115)

Cougars, also known as "ghosts of the Rockies," are Yellowstone's most elusive large carnivores. Detection and interpretation of cougar sign is often the only way to understand their behavior and ecology. Through a combination of slide lectures and field instruction, you will be introduced to sign-interpretation and the history of cougars in the West and in Yellowstone. Find out what Yellowstone cougars eat, how often they kill prey, what effect wolves may have on cougar population and predation rates, and how current research pertains to cougar conservation. Practice "detective work" to locate cougar sign, examine current radio-tracking techniques, and discuss cougar-wolf interactions. Because of their elusive nature, this course does not focus on obtaining direct observations of cougars. Field trips to search for cougar sign will require hiking off-trail on steep slopes and through rocky and rugged terrain. Participants must have good hiking boots that provide ankle support.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.

Day Hiking in Wonderland

June 26-28 (#629)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Tom Watson, M.A.

\$180 (Member's fee \$170)

Explore Yellowstone's natural world through casual hikes off the beaten path. As we ramble into Yellowstone's moderately rugged interior, we will immerse ourselves in the sights and sounds of this unique and mysterious place. Our hikes will give bird watchers, animal observers, geology explorers, and plant identifiers a chance to experience and learn in one of the world's greatest outdoor classrooms. Good hiking shoes and an appetite to learn are your tickets to this place some have called, "Wonderland." Be prepared for light to moderately strenuous hikes of 4.5 to 6.5 miles per day.

We will meet in the Lamar Ranch classroom at 8:30 am each day, and then venture into the field until late afternoon.



Mid-Sized Carnivores

June 26-28 (#630)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Steven W. Buskirk, Ph.D.

\$180 (Member's fee \$170)

NEW

This course will explore the factors that affect the distribution and abundance of mid-sized carnivores—a diverse group, including martens, fishers, lynx, wolverines, river otters, badgers and minks—that is important ecologically and aesthetically. We will also examine how these species affect the communities to which they belong, including each other. Classroom presentations will focus on evolution, habitats, prey, and conservation. Most mid-sized carnivores are rare, shy, or both, so our field trips will focus on exploring suitable habitats to locate and identify the sign of as many species as possible. We will climb to the spruce-fir zone to examine the physical structure that is so important to several species. Also, we will spend one day studying the diets and behaviors of otters and minks.

We will meet in the Lamar Ranch area at 8:30 am on the first day and end at 5:00 pm on the last day.

Uncovering Secrets of the Lower Geyser Basin

June 28-29 (#632)

Limit: 13

Location: Old Faithful

Instructor: Orville E. Bach, Jr., Ed.D.

\$125 (Member's fee \$115)

Have you ever imagined what early explorers experienced when they discovered Yellowstone's thermal basins? The Lower Geyser Basin with its rare and remote thermal features provides an opportunity to experience the sense of discovery. Our two-day course will primarily consist of short hikes in the field to view spectacular hot pools, mud pots, and geysers, and to study the fascinating geology and ecology of Yellowstone thermal basins.

We will meet at the Old Faithful Visitor Center at 9:00 am on the first day and end at about 4:00 pm on the last day. Rooms have been set aside at Old Faithful—contact registrar for reservation information.

Field Photography in Yellowstone: The Creative Image

June 28-July 1 (#633)

Limit: 11

Location: Mammoth/Lake/Old Faithful

Credit Pending: U, 1 semester hour, CSU

Instructor: Sandra Nykerk

\$235 (Member's fee \$225)

Bring your camera and visually explore Yellowstone while developing your photographic skills in the field. The first morning will be spent in the classroom; from there, we'll move to the "classroom in the great outdoors." We'll photograph many of Yellowstone's special places, including the thermal features of Mammoth, the scenic landscapes of the Grand Canyon of the Yellowstone and Yellowstone Lake, and the dramatic hues of the Old Faithful area geyser basins, all the while allowing for the serendipity of wildlife.

There will be special emphasis on the evolution of personal vision and creativity, and the importance of natural history knowledge to the nature photographer. This is an intermediate level course for those who have a working understanding of photographic principles and a fundamental familiarity with their equipment.

We will meet in the Mammoth Hot Springs area at 9:00 am on the first day and end in the Old Faithful area at 4:00 pm on the last day. We recommend the following dates and areas for camping or lodging: June 27 & 28—Mammoth area; June 29—Yellowstone Lake area; June 30 and July 1—Old Faithful area. Rooms have been set aside at Mammoth, Lake, and Old Faithful—contact registrar for reservation information.

The Art of Wildflower Identification

June 29-July 1 (#634)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Meredith E. Campbell

\$180 (Member's fee \$170)

NEW

This class will give you the skills to identify the beautiful wildflowers that enhance our world and the knowledge to better understand and appreciate them. You will learn basic botanical terminology, how to use beginner keys and pictorial field guides, about Indian and wildlife uses, distribution, and pollination strategies. Sketching techniques will be taught to help you recognize key identification features even when the plant is not in bloom. Absolutely no drawing experience is necessary. After a classroom session on terminology and field sketching techniques, we will spend most of our time going on short hikes to develop our skills in the field.

We will meet in the Lamar Ranch area at 8:30 am on the first day and end at 3:00 pm on the last day.

Wolves of the World

June 29-July 1 (#635)

Limit: 12

Location: Lamar Buffalo Ranch

Instructors: Douglas Smith, Ph.D. & Christine Smith

\$200 (Member's fee \$190)

Join us for a comprehensive and intensive study of wolves. Through a combination of classroom sessions and field trips to watch wolves, we will examine their habitat and acclimation pens. You will learn about wolves of the world, North America, and Yellowstone National Park. Topics and issues include: population status worldwide, taxonomy, predator-prey relationships, relationships with other carnivores, morphology, and evolution. A discussion of human/livestock/wolf relationships will also be conducted.

There will be required reading before the class begins as well as during the session. Slide shows and videos will be used in the classroom. Participants should be able to hike 2 to 3 miles.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end late afternoon on the last day.



Alpine Wildflowers

July 1-3 (#702)

Limit: 13

Location: Cooke City, Montana

Credit Pending

Instructor: John Campbell, Ph.D.

\$125 (Member's fee \$115)

NEW

This intensive course will provide an introduction to the wildflowers that inhabit alpine tundra and to the ecological adaptations that allow their survival at high altitudes. The wildflowers will serve as a connection to the general ecology of alpine ecosystems. Topics and issues covered will include the identification of alpine wildflowers, their ecological adaptations, and the distribution and ecology of tundra plant communities. This will be a field course, and will focus on the alpine regions of the Beartooth Plateau. Participants should be able to hike 2 to 3 miles at elevations over 10,000 feet.

We will meet in Cooke City at 4:00 pm on the first day and end at 4:00 pm on the last day. Contact registrar for lodging information.

Introduction To The Butterflies Of Greater Yellowstone

July 2-3 (#705)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending

Instructor: Robert Anderson, Ph.D.

\$125 (Members fee \$115)

This is the first of two courses on butterflies which explore the beauty and aesthetic appeal of these charismatic insects whose diverse colors and patterns have inspired many a naturalist. The Greater Yellowstone Ecosystem supports nearly 130 species of butterflies representing seven families. Several species, including the Yellowstone Checkerspot and Haydens Ringlet, are unique to the region. Participants in this introductory course will discover the butterfly bounty of Yellowstone and its environs, and develop an understanding and appreciation of the diversity of invertebrate microfauna in Yellowstone.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.

Wolf Watching in Yellowstone

July 2-4 (#706)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Norman A. Bishop

\$180 (Member's fee \$170)

Yellowstone National Park may be the best place in the world to watch wolves. Bring your binoculars, scope and tripod if you have them (Institute has scopes), warm clothing for freezing mornings, and join the crowd. In this course, we will consider the scientific and social reasons why some Americans have alternately reviled and revered wolves. We'll also examine the process of justifying the wolf's restoration as an experimental population under the Endangered Species Act. Find out what the wolves eat, how they kill their prey, which does the killing, and what effect the wolves have on other animals, including livestock outside the park. We'll watch for wolves from the roadside at dawn and dusk, and discuss them while watching videos and slides in the classroom at midday.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 3:00 pm on the last day.

Advanced Studies on Butterflies of Yellowstone

July 4-5 (#707)

Limit: 12

Credit pending

Location: Lamar Buffalo Ranch

Instructor: Robert Anderson, Ph.D.

\$125 (Member's fee \$115)

This is a continuation of the *Introduction to the Butterflies of Greater Yellowstone* course. In this advanced course, we will review and practice spot identification of families, and further analyze species that are active in the region. We will also consider scientific protocols for obtaining information relating to the systematic, biological, ecological, and physiological attributes of butterflies in the laboratory and field. We will observe the numbers, variety, flight characteristics, and food requirements of butterflies. Participants should be able to identify butterflies at the family level to take this course.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.

Along the Yellowstone River with Lewis & Clark

July 5-7 (#708)

Limit: 12

Location: Mammoth Hot Springs/

Three Forks, Montana

Credit pending: U, 1 semester hour, CSU

Instructor: Jim Gary, M.S.

\$180 (Member's fee \$170)

In the summer of 1805, Lewis and Clark passed through the Yellowstone region en route to the Pacific Ocean. They came up the Missouri River from the Great Falls and camped in the Three Forks area before continuing west. On the return trip, William Clark explored the Yellowstone River while Corps of Discovery member John Colter ventured into the area we now know as Yellowstone National Park.

Almost 200 years later, we will walk in their footsteps, see what they saw, read their journals, and speculate on what they would think of this country today. We'll journey to Three Forks and follow Clark's route to the Yellowstone where we'll see cottonwood trees like those he used to make canoes, and visit a buffalo jump that was in use then.

We will meet in the Mammoth Hot Springs area at 9:00 am on the first day and end at Mammoth midday on the last day. Participants must secure their own campsite or lodging in Mammoth Hot Springs and Three Forks—contact registrar for lodging information.

Nature Photography in Yellowstone: Building a Foundation for Creativity

July 5-8 (#709)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending: U, 1 semester hour, CSU

Instructor: Sandra Nykerk

\$235 (Member's fee \$225)

Yellowstone's magnificent diversity of sweeping landscapes, majestic wildlife, brilliant colors, and steamy surrealism, provides an unparalleled setting for learning and expanding your photographic skills. We will concentrate on photographic principles, including the ethics of nature photography, creative visualization, learning to see the light, metering, exposure, and composition. Then we will explore film and equipment selection, and macro photography. Daily classroom lectures and slide programs are integrated with field trips for "hands-on" learning and enjoyment of this spectacular region. Lab film processing during the course for on-site feedback will be available. Students should bring a 35mm camera with interchangeable lenses. Emphasis will be on developing technical excellence and personal vision along with an understanding that a really good nature photographer is an even better naturalist!

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day. Participants will be expected to pay for their own lab film processing.

Artistic Field Journals

July 5-8 (#710)

Limit: 10

Location: Old Faithful

Instructor: Eleanor Williams Clark, M.L.A.

\$245 (Member's fee \$235)

The Firehole River, geysers, and fumaroles intrigued early artists. Their sketches, recording the landscape of 1871, were essential in understanding and establishing Yellowstone Park. In this course, you will learn how field art facilitates a unique understanding of park resources. Using examples from early field artists such as Holmes and Moran, we will explore various field techniques for sketching and painting. The natural setting will inspire you: thermal features, creeks, rivers, meadows, and wildlife in the Old Faithful area. There will be basic instruction on how to paint in the field. Ink, pencil, charcoal, and watercolor paints will be used to create sketches and notes of our surroundings in the field and in quiet corners of the Old Faithful Inn.

We will meet in the Old Faithful area at 9:00 am on the first day and end at 2:00 pm on the last day. Rooms have been set aside at Old Faithful—contact registrar for reservation information. Fee includes \$10 for course materials.





Wild Cats of the Northern Rockies

July 6 (#711)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Kerry Murphy, Ph.D.

\$65 (Member's fee \$55)

NEW

Discover the cougars, lynx, and bobcats of the Greater Yellowstone Ecosystem. Classroom sessions will explore wild cat management and research with emphasis on current status, taxonomy, comparative morphology and niche, predator-prey relationships, and interactions with other carnivores, including humans. The course will end with an afternoon field trip to identify cat habitats and cat sign in the Lamar Valley area. Participants should be able to hike up to 2 miles total.

We will meet in the Lamar Ranch area at 8:30 am and finish the class at 6:00 pm the same day.

Plants of Yellowstone

July 7-9 (#713)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Jennifer Whipple, M.A.

\$180 (Member's fee \$170)

From the alpine flowers of Mt. Washburn to the specialized plants of the thermal areas, this course focuses on the fascinating wildflowers and vegetation of Yellowstone National Park. Participants will learn to recognize plant families, genera, and species, including some that are rarely seen in the park. We'll also discuss a variety of related park issues during informal field sessions. Be prepared to spend some time in vehicles as we explore the locations of various wildflowers scattered throughout the park. We will investigate many different habitats on short (less than 1 mile) walks. Wear appropriate shoes for wet areas.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end late afternoon on the last day.

Yellowstone's Charismatic Microorganisms

July 9-10 (#716)

Limit: 13

Location: Old Faithful/

Mammoth Hot Springs

Instructor: David M. Ward, Ph.D.

\$180 (Member's fee \$170)

NEW

Yellowstone's hot spring microorganisms exhibit themselves colorfully at environmental extremes plants or animals cannot withstand. This intensive course explores the evolution, ecology, and biotechnological value of these tiny creatures. During the first day we will take short hikes to examine microbial diversity found in a variety of chemically different hot springs, observe environmental parameters that control the distribution of microbial communities, and collect samples. On the second day we will use microscopes to view the microorganisms that form these communities.

We begin at the Great Fountain Geyser parking lot at 9:00 am on the first day and spend the night at Mammoth, where we will conduct laboratory work until 5:00 pm on the second day. Rooms have been set aside at Old Faithful on July 8 and at Mammoth on July 9 and 10—contact registrar for lodging information.

Day Hiking the Wild Yellowstone

July 9-11 (#717)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nancy Procter, M.S.

\$180 (Member's fee \$170)

NEW

John Muir once exclaimed that Yellowstone is "wild enough to awaken the dead." Over 100 years later, Yellowstone's wild side is still out there waiting to be discovered. All you need to do is strap on your boots, leave the roadside, and hike into the backcountry. On this course, we will do just that, exploring the wild places where legends begin. The first evening, we will review the basics of safe, comfortable, low-impact backcountry travel. For the next three days, we 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 up to 10 miles, with possible 1,500-foot elevation gains, so come prepared to breathe the air that "is electric and full of ozone."

We will meet in the Lamar Ranch area at 7:30 pm on the first day and end late afternoon on the last day.



History of Wildlife Conservation in Yellowstone

July 10-12 (# 718)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: James A. Pritchard, Ph.D.

\$180 (Member's fee \$170)

NEW

At one time in Yellowstone, it was considered appropriate to stomp on pelican eggs to improve the fishing at Yellowstone Lake, to systematically exterminate wolves to increase game populations, and even to lure bears onto a garbage-covered 'stage' so that the public could enjoy a bear show. Today, these behaviors are virtually unimaginable. This course will explore the evolution of wildlife conservation and management in Yellowstone from the park's creation in 1872 to the present and relate historic changes to shifts in the cultural significance of wildlife, the national conservation picture, the science of ecology, and the role of science in park management.

Bring your daypack and be prepared to hike rain or shine, as we will walk several miles each day off the broken trail to historical sites where elk were penned, wolves sequestered, fish propagated, bison corralled, and where bears entertained.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 3:00 pm on the last day.

History of Yellowstone Artists

July 11 (#719)

Limit: 13

Location: Old Faithful

Instructor: Peter Hassrick, M.A.

\$65 (Member's fee \$55)

NEW

Yellowstone was a mecca for artists in the late 19th and early 20th centuries. Major figures in American painting found Yellowstone to be a natural template for an everchanging artistic interpretation of America's western wilderness. In art, these interpretations range widely from the grand manner, nationalistic, panoramic landscapes of Thomas Moran and Albert Bierstadt to the delicately personal watercolors of Louis Comfort Tiffany. In this course, we will examine the history of American art through the artistic interpretation of Yellowstone. We will study many actual images and discuss the "sweat and inspiration" behind them, the influence of creative impulse on aesthetic forms, the taste of the times, the demands of an enthusiastic public, and the difficulty of reaching the Yellowstone wonderland.

We will meet at the Old Faithful Snow Lodge at 9:00 am and end at 5:00 pm.



Lamar Valley Service Learning—Noxious Weeds

July 12-14 (#720)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Paul Miller & NPS Resource

Management Staff

\$50 (Member's fee \$40)

NEW

Yellowstone now has 197 species of exotic plants that are spreading through the park, displacing native species, and progressively chipping away at the park's ecological foundations. The situation is most dire on Yellowstone's northern range where infestations are severe and the implications for wildlife are potentially great. This course is an opportunity to not only learn about the ecology and management of noxious weeds but to make a difference by directly assisting the National Park Service in the control of weeds in and around Lamar Valley. This course will be 25% classroom time and 75% field experience and will explore the origins, identification, ecology, and effects of noxious weeds on Yellowstone's northern range. Control projects will involve manual weed removal and surveys to document the amount and types of noxious weeds in the vicinity of Lamar Valley.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.

The Nez Perce in Yellowstone

July 13-15 (#722)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Jim Garry, M.S.

\$180 (Member's fee \$170)

NEW

The Nez Perce were Yellowstone's most reluctant tourists. Their only desire was to stay on their ancestral lands but conflicts with white settlers flared into a war with the U.S. Army whose surprise attack at Big Hole left many Nez Perce women, children, and old folks dead and the survivors bewildered, bitter, and angry. Fleeing to Canada, the Nez Perce crossed through Yellowstone National Park and left an indelible mark on its history. We'll visit the sites where the Nez Perce bumped into tourists and the army, with varied results. We'll follow parts of their trail and the Army's. And we'll talk about not just the 1877 war but Nez Perce history in general, from pithouse days until today.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.



Geysers, Mud Pots & Hot Springs

July 13-15 (#723)

Limit: 13

July 17-19 (#729)

Limit: 13

Location: Old Faithful

Credit pending: U, 1 semester hour,
MSU, CSU

Instructor: Duncan Foley, Ph.D.

\$190 (Member's fee \$180)

Yellowstone has the world's greatest concentration of hydrothermal (natural hot water) features. Explore the interacting heat, rock, and water systems that have been preserved in Yellowstone in their dynamic geologic setting in this field-based class. We will examine a wide variety of hydrothermal features and discuss how they form and why they do the things they do.

We will meet at the Canyon Visitor Center at 11:00 am on the first day, and proceed to Old Faithful by evening. The second day will be spent in the Upper, Midway, and Lower Geyser Basins, where we will try to see several of the major geysers erupt. On the third day we will start at Norris Geyser Basin, and finish in late afternoon at Mammoth. Be prepared each day for all kinds of weather and on- and off-trail hikes of 2 to 3 miles. No background in geology is required for this class. This class will be based at Old Faithful. Rooms have been set aside at Old Faithful—contact registrar for reservation information. Fee includes \$10 for course materials.

Yellowstone's Insect Vampires

July 15 (#724)

Limit: 10

Location: Lamar Buffalo Ranch

Instructor: John Burger, Ph.D.

\$65 (Member's fee \$55)

NEW

This course explores the biology, ecology, and behavior of some of the very few animals you are allowed to kill in Yellowstone: insects seeking your blood and the blood of other mammals. The course will include a slide-lecture introduction to the biology, ecology, life cycles, and behavior of blood-feeding insects and emphasize their role in park ecosystems to promote an appreciation, if not love, of these "pests." The course will include field observation of habitats for mosquitoes, black flies, and horse flies, host-seeking behavior of snipe flies, and possibly others on human and equine hosts. This course may include a trip to selected mosquito breeding sites located in the Canyon-Norris area.

We will meet in the Lamar Ranch area at 9:00 am and end in the early evening.

Birds, Bees, & Butterflies

July 16-18 (#725)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Peg Steunenberg

\$180 (Member's fee \$170)

See and experience Yellowstone in a completely new way by drawing its beautiful butterflies, pollinators, and birds. Drawing sharpens the perception of nature and sharpened perception enhances drawing skill. By using both insect and bird specimens (provided in class), participants discover that basic anatomy provides the roadmap for an accurate rendering. Starting with a graphite drawing, we will progress through a variety of mediums—water-based paint, pen and ink, and mixed media using several different kinds of paper. Demonstrations will be given and ample time allowed for trying one's hand at the various methods. A detailed course outline and explanatory technique notes are provided. Time permitting, short hikes and some field sketching will provide the opportunity to observe various plants on which birds and insects depend.

We will meet in the Lamar Ranch area at 8:30 am on the first day and end at 4:00 pm on the last day.

Fly-Fishing for Women I

July 16-18 (#726)

Limit: 6

August 20-22 (#822)

Location: Mammoth Hot Springs

Instructor: Rhea Topping

\$275 (Member's fee \$265)

Jump-start your interest in fly-fishing! We will cover all 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 with an emphasis on developing good casting skills. You will visit and fish a variety of rivers in the prettiest classroom ever, Yellowstone National Park! There will be time to practice and fish on your own, and view wildlife at dusk, returning late each evening to Mammoth.

Meet at Mammoth Hot Springs in the hotel lobby at 2:00 pm on the first day with your fly rod and reel, and end in the late afternoon on the last day. Participants must provide their own equipment and equipment is available for rent at local fly shops. Rooms have been set aside at Mammoth Hot Springs—contact registrar for reservation information. Fee includes \$15 for course materials (flies and textbook). Yellowstone Park fishing permits are required and are available at most visitor centers.

Mammal Tracking: Interpreting Tracks, Scat & Other Sign

July 16-19 (#727)

(see description on pg 14)

Geysers, Mud Pots & Hot Springs

July 17-19 (#729)

(see description on this page)

Fly-Fishing for Women II

July 19-21 (#730)

Limit: 6

August 23-25 (#824)

Location: Mammoth Hot Springs

Instructor: Rhea Topping

\$275 (Member's fee \$265)

The introductory class has been such a success that we decided to add a second, more advanced class immediately following Fly-Fishing for Women I should you wish to take both! This course will be a review, again concentrating on developing good casting skills, but placing more emphasis on technique and fine-tuning. There will be less instruction and more fishing time. We will fish as many different rivers as possible, returning after dark to Mammoth. Our goal is to leave you with the desire to go fly-fishing again and again!

Meet at Mammoth Hot Springs in the hotel lobby at 2:00 pm on the first day, and end in the late afternoon on the last day. Participants must provide their own equipment and equipment is available for rent at local fly shops. Rooms have been set aside at Mammoth Hot Springs—contact registrar for reservation information. Fee includes \$15 for course materials (flies and textbook). Yellowstone Park fishing permits are required and are available at most visitor centers.



Exploring Greater Yellowstone's Future

July 19-22 (#731)

Limit: 12

Location: Lamar Buffalo Ranch/

Paradise Valley, Montana

Credit Pending

Instructor: Mike Clark

\$235 (Member's fee \$225)

NEW

A comprehensive look at the major forces likely to shape the future of Greater Yellowstone, this course will examine the impacts of population growth, changing land use patterns, industrial tourism, mining, logging, ranching, second home development, transportation issues, and the role that Yellowstone Park plays in the world-wide conservation movement.

Beginning in Lamar Valley, we will explore the major threats and opportunities within the ecosystem, discuss region-wide migration patterns of elk and their predators, and take field trips to the New World Mine. For the last two days, we will move north of the park to examine conflicts over bison migration and the impacts of land developments in the Paradise Valley. An emphasis will be placed on group dialogue and exploration of how these issues will shape the future of Greater Yellowstone.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end in Paradise Valley late afternoon on the last day. Rooms have been set aside in Gardiner for the last two days—contact registrar for information.



Painting in Lamar Valley

July 20-22 (#732)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Eleanor Williams Clark, M.L.A.

\$195 (Member's fee \$185)

NEW

Learn the art of painting in the field following the tradition of other early landscape painters such as Thomas Moran. Determining color schemes, color mixing, natural texture, and form will bring consequence to each painting. Working in the field, we will hone our skills of observation with pigments and a brush. We will work with different types of papers, tools, and techniques in watercolor and gouache. Three days of field experience painting in the Lamar Valley will acquaint us with wolves, bison, unfolding landscapes, and the challenge of water. Changing light and field conditions make each painting a study. Field painting will be augmented with classroom opportunities.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 3:00 pm on the last day. Fee includes \$15 for course materials.

Hiking Through Time— Day Hikes Into the Geological Past

July 21-23 (#733)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Tom Watson, M.A.

\$180 (Member's fee \$170)

Did you know that it's possible to go back into time? In a sense, Yellowstone is a time machine, and by hiking through its interior, you can go back and trace almost three billion years of the park's geologic history. You will have an opportunity to take relatively moderate hikes off-road to observe and consider firsthand the ancient processes that shaped what we see today in Yellowstone's rocks, mountains, valleys, and geyser basins. No past experience in geology is required, only a desire to learn. Be prepared to hike 4.5 to 6.5 miles each day at a casual pace. Good hiking boots, sunscreen, sunglasses, a daypack with lunch and rain gear are required. Field journals, cameras, binoculars, and hand lenses are optional.

We will meet at the Lamar Ranch classroom at 8:30 am each day, then go to the field until late afternoon.

The Lesser-Known Carnivores of the Greater Yellowstone Ecosystem

July 23-25 (#735)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour,
MSU, CSU

Instructor: James Halfpenny, Ph.D.

\$195 (Member's fee \$185)

Discover the excitement and beauty of the lesser-known carnivores of the Greater Yellowstone region: coyotes, foxes, mountain lions, lynx, bobcats, wolverines, otters, fisher, badgers, and marten. Join us for extensive discussions of carnivore biology, ecology, behavior, conservation, and evolution. This course will feature guest speakers, lectures, readings, videos, and field trips to the habitats where these carnivores are found.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day. Fee includes \$15 for course materials.

History of Yellowstone Photographers

July 24-25 (#737)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Lee H. Whittlesey, J.D.

\$125 (Member's fee \$115)

In the early days of the park's history, photographers flocked to Yellowstone. Major and minor figures in American photography in the 1870s and 1880s—William Henry Jackson, F. Jay Haynes, Joshua Crissman, Henry Bird Calfee, Thomas Hine, A.F. Thrasher, Bundy and Train, Rutter and Nesbitt, and L.A. Huffinan—found the park to be a natural template for an ever-changing interpretation of America's western wilderness.

We will examine the history of American photography through the photographic interpretation of Yellowstone. We will learn how photographers captured the park on film and what these images meant to an enthusiastic public. We also will examine several hundred actual 19th century images from the park's own collection that you would otherwise have very little chance to see.

We will meet in the Lamar Ranch area at 8:30 am on the first day and end at 4:00 pm on the last day.

Lichens & Mosses in Yellowstone National Park

July 26 (#738)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Sharon Eversman, Ph.D.

\$65 (Member's fee \$55)

NEW

What is that orange crust on rocks and the black "horsehair" hanging from tree branches? Is it moss or is it lichen? In this one-day workshop, we will examine the differences between these two types of common organisms and become adept at recognizing them. We will spend some time in the classroom in the morning learning some basic biology, then head to the field to observe lichens and mosses in their habitats.

We will meet in the Lamar Ranch area at 9:00 am and end by 5:00 pm. Bring a sack lunch, and if you have one, a hand lens or magnifying glass.



Geology of Yellowstone Lake

July 26-28 (#739)

Limit: 13

Location: Lake

Credit Pending

Instructor: Lisa Morgan, Ph.D.

\$180 (Member's fee \$170)

NEW

Learn what geologic forces have shaped Yellowstone Lake, the centerpiece of the dynamic Yellowstone Plateau, and how these forces have influenced the ecosystem of the lake and surrounding environs.

This course will be a comprehensive examination of the recent high-resolution technologies used to map the floor of the lake and results from our recent mapping efforts. We will begin with a brief overview of the geology of the Yellowstone Plateau and previous efforts made to map the lake. This course will be field intensive; we will be in the field the majority of each day examining active hydrothermal systems, large explosion craters and associated deposits, and rhyolitic lava flows that have been emplaced on land as well as into water. Each day will start with a brief lecture with slides and videos. Participants should be able to hike several miles.

We will meet in the lobby of Lake Hotel at 8:30 am on the first day and end late afternoon on the third day. Reading material will be distributed prior to and during the course.

Fossils of Yellowstone

July 26-28 (#740)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, CSU

Instructor: Vincent L. Santucci

\$180 (Member's fee \$170)

The fossil record of life is well represented within the rock layers of Yellowstone. Paleontologists have discovered a wide range of fossil types in the park, including marine invertebrates, petrified wood, leaves, and dinosaurs. A paleontological survey initiated at Yellowstone in 1996 documented over 20 fossil-producing units in the park. On our field trips, we will visit a variety of paleontologic sites where both plant and animal fossils are preserved. Participants will have the opportunity to assist paleontologists with field surveys and help document new sites and fossils. One locality visited involves a moderately strenuous hike.

We will meet in the Lamar Ranch area at 8:00 am on the first day and end around 5:00 pm on the last day.

Environmental Ethics in Yellowstone

July 26-28 (#741)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, CSU

Instructor: Holmes Rolston, III, Ph.D.

\$135 (Member's fee \$125)

This seminar will explore values carried by, and duties to, the natural world. We will relate environmental ethics to ecological science and evolutionary biology, with attention to the logic of moving from what is in nature to what ought to be. Examples of ethical decisions made in encounters with fauna and flora—bighorn sheep, bison, ducks, butterflies, lodgepole pine forests—and with endangered species and threatened ecosystems, as well as philosophical issues in Yellowstone National Park and the Greater Yellowstone ecosystem will be a particular focus.

Through classroom and outdoor experience, ethical reflection, and exploration of natural environments, you will discover what it means to live as a responsible human being in both the human and biotic communities of life on Earth. View the social and natural worlds with Yellowstone Park as a center of comparison and contrast between wildland and inhabited landscapes.

We will meet in the Lamar Ranch area at 6:00 pm for supper on the first day and end at 2:00 pm on the last day. Fee includes \$10 for a copy of the instructor's book, *Conserving Natural Value*.

Old Times at Old Faithful

July 27 (#742)

Limit: 15

Location: Old Faithful Area

Instructor: Leslie J. Quinn, M.Ed.

\$65 (Member's fee \$55)

Since 1870 when the Washburn party named Old Faithful, the land around the geyser has been the most visited part of the Yellowstone area. The village of Old Faithful is a fascinating and important cultural landmark for our national parks.

This field course will examine the changing face and cultural history of the village. We will visit the Bear's Playground, Wylie "Permanent" Camp, the former and current sites of the Haynes Photo Shops, and the Inn, Lodge, and Hamilton Stores. You will learn many interesting historical facts (why do they call the Upper Hamilton Store the "B.A.C."?) and view antique photographs as we explore the past.

We will tour the village on foot. Be prepared to walk 3 to 4 miles during the course of the day. Walking shoes and rain gear are recommended.

We will meet at the fireplace in Old Faithful Inn at 9:00 am and end at 5:00 pm at the Inn.



Ghost Hotels of Yellowstone

July 28 (#743)

Limit: 12

Location: Old Faithful Area

Instructor: Leslie J. Quinn, M.Ed.

\$65 (Member's fee \$55)

Did they really build a hotel in Yellowstone and never open it? Has Old Faithful Inn lost 51 rooms since it opened in 1904? Which hotel was slated to have a "drive through" installed for automobiles? In this field class, you will learn the answers to these and other questions. As we tour the sites of many of the lost hotels of the park, you will learn their histories, and discover some ghosts of the current hotels as well. Antique photographs will help us envision the scene at each locale. Hotel sites to be visited include Old Faithful, Fountain, Marshall's, Norris, Canyon, and Lake (multiple stops at some).

We will meet at the fireplace in Old Faithful Inn at 8:00 am and end at 5:00 pm at the Inn.

The Sheep Eaters

July 29-31 (#745)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Lawrence Loendorf, Ph.D.

\$180 (Member's fee \$170)

NEW

The Mountain Sheep Eaters, Indians whose permanent territory included Yellowstone National Park, are among North America's most maligned and least understood Indian groups. To this day, the myth persists that the Sheep Eaters were a poor, diminutive, defenseless people who were derided by their low-country brethren and eventually died of smallpox. They were in fact very capable and wealthy mountaineers with a lifeway that was interwoven with bighorn sheep in remarkably sophisticated ways. We will learn about the Mountain Sheep Eaters exactly 167 years after fur trapper, Osborne Russell, spent a night with the tribe in Lamar Valley and accurately described their health, wealth, craftsmanship, and contentment. Through slide-illustrated lectures and fieldtrips, we will explore former Sheep Eater home sites and sheep trapping areas.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end around 4:00 pm on the last day.



A Trail Through Leaves— The Art of the Field Journal

July 29-August 1 (#746)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Hannah Hinchman

\$235 (Member's fee \$225)

An illustrated field journal is an exhilarating and creative way to record your encounters with the natural world. This course will introduce a type of journal keeping that mixes words and images, exploration and introspection, to create a new way of entering the world of nature. The course includes early morning writing rambles, classroom and field instruction in basic drawing methods, creative mapping, design and color, and careful observation. The course is designed to allow ample time for solitude, or for browsing in the instructor's extensive library. Be prepared for hikes of moderate length.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at noon on the last day.

Fly-Fishing for Teens



(12-16)

Boys—July 30-August 1 (#747)

Limit: 6

Girls—August 2-4 (#802)

Limit: 6

Location: Mammoth Hot Springs

Instructor: Rhea Topping

\$275 (Member's fee \$265)

NEW

Let your parents drop you off each morning at the Mammoth Hotel and pick you up in time for a late dinner. While they go sightseeing, you can learn to fly fish in the Park! We'll learn or review knot tying, fly patterns, identification of real bugs, good fishing manners, equipment and wading safety, and how to hook, play, land, and release a trout properly. We will work hard on developing good casting skills that will last you a lifetime, and allow you to be able to go fishing on your own. We'll allow time to look for wildlife as well.

Meet at Mammoth Hot Springs in the hotel lobby at 2:00 pm on the first day with your fly rod and reel, and end in the late afternoon on the last day. Participants must provide their own equipment and equipment is available for rent at local fly shops. Rooms have been set aside at Mammoth Hot Springs—contact registrar for reservation information. Fee includes \$15 for course materials (flies and textbook). Yellowstone Park fishing permits are required and are available at most visitor centers.



John Colter

August 1 (#801)

Location: Lamar Buffalo Ranch

Instructor: Jim Garry, M.S.

\$65 (Member's fee \$55)

NEW

John Colter was the first white man to see what is now Yellowstone National Park. This one-day course will examine John Colter's life and travels with a focus on his 1807 journey into what is now Yellowstone National Park. We will use historic and modern maps to figure out Colter's route through Yellowstone, talk about Colter and his times, and visit the sites that Colter likely visited.

We will meet in the Lamar Ranch area at 9:00 am and end at 5:00 pm.

Fly-Fishing for Teens (12-16)

Girls—August 2-4 (#802)

NEW

(see description on pg 29)

Limit: 12

Fly-Fishing the Catch & Release Way— Less Experienced

August 2-4 (#803)

Location: Lamar Buffalo Ranch

Instructor: Richard Parks

\$260 (Member's fee \$250)

Limit: 8

For the less experienced, this course will emphasize the special nature of Yellowstone fishing—the abundance of native fish, the special regulations, and fishing philosophies that have enabled park managers to protect and maintain a sport fishing resource.

This course is intended for those who have purchased or otherwise made arrangements to have their own equipment but have not spent much time fly-fishing. Half the course time will be spent on the basics, practicing casting and other techniques away from the water. The rest of the time, the instructor will work with small groups on the stream. He will be available each evening for discussion. Be prepared for some hiking and climbing. The Yellowstone River in the park lies above 7,000 feet in altitude and neither the stream banks nor their approaches are flat.

The class will meet in the Lamar Ranch area at 8:30 am on the first day and end late afternoon on the last day. Yellowstone Park fishing permits are required and are available at most visitor centers.

The Bison of Yellowstone

August 2-4 (#804)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU

Instructors: Jim Garry, M.S.

& Harold Picton, Ph.D.

\$200 (Member's fee \$190)

The big boys are rumbling. While we're watching the bison rut, we'll learn about more than breeding behavior. Buffalo are one of the Old West's classic, enduring symbols; bison are one of the New West's issues. Here in Yellowstone, where once we fought for their survival as a species, bison are now a focal point in the fight to define the New West. This class will explore the bison's history and natural history, its role in Indian cultures, and in the expanding white culture of the 19th century. Since we're at the Buffalo Ranch, we'll dig into the Ranch's role in the survival of the bison. We'll also explore the current political turmoil around the definition of the Yellowstone ecosystem and the bison's role in that controversy.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end mid-afternoon on the last day.

The Ecology of Streams

August 4-6 (#806)

Limit: 12

Location: Lamar Buffalo Ranch

Credit pending

Instructor: Bert Cushing, Ph.D.

\$180 (Member's fee \$170)

This course will explore how the various biological communities found in different size streams are dependent upon the physical, chemical, and biological characteristics of the entire watershed. Following an introductory slide lecture, we will visit a variety of streams where we will discuss the information presented in the lecture, collect aquatic insects, learn how to identify the insects in the lab, and determine how well the information we gather fits into current popular concepts of stream ecosystems. The information learned in this class permits an enhanced appreciation of how all aspects of the environment work together to produce the stream and its organisms. The students will also use the information collected to learn how to do a rapid biological assessment of the water quality in streams.

We will meet in the Lamar Ranch area at 9:00 am and end late afternoon the last day.

Geology of the Yellowstone Country



August 5-9 (#807)

Limit: 12

Location: Lamar Buffalo Ranch/Old Faithful
Credit pending

Instructor: David Fountain, Ph.D.

\$300 (Member's fee \$290)

Explore the geologic history of Yellowstone Park from its ancient beginnings to the spectacular eruptions that formed the world's largest known calderas. Daily field excursions through the park will introduce you to such topics as volcanic rocks and processes, glaciation, earthquakes and faulting, hydrothermal features, sedimentary rocks and processes, metamorphism, and tectonics. Be prepared to hike 1.5 to 2 miles up to Specimen Ridge, an elevation gain of 1,000 feet. Completion of an introductory geology course is preferred but not required.

We will meet in the Lamar Ranch area at 8:00 am on the first day and end late afternoon on the last day. On Thursday evening, participants will spend the evening in the Old Faithful area. Rooms have been set aside at Old Faithful—contact registrar for reservation information. Fee includes \$10 for course materials.



History of Yellowstone Wildlife, 1806-1883

August 7-9 (#809)

Limit: 12

Location: Lamar Buffalo Ranch
Credit Pending

Instructor: Lee Whittlesey, J.D.

\$125 (Member's fee \$115)

NEW

What species of wildlife were present in Yellowstone before European settlement and how common were these species? How has subsequent settlement and development changed wildlife populations in the park? Some authors have argued that large mammals were not present in the park before the 19th century and that current animal populations were pushed here by encroaching civilization. Under this scenario, current conditions are unnatural, and action should be taken to drastically reduce some wildlife populations including elk and bison herds. But are present wildlife populations really unnatural? This course uses historic accounts from people who visited the park between 1806 and 1882 to address the question. Students will examine numerous documents indicating the presence and prevalence of different wildlife species in the park including elk, bison, wolves, and grizzly bears. Documents to be examined include government survey reports, journals of explorers, trappers, prospectors, military parties, and tourists, early maps, popular books and periodical articles, historic photographs, and contemporary newspaper reports. The course also examines historic populations of threatened or endangered species such as the lynx to help us set realistic recovery goals.

We will meet in the Lamar Ranch area at 1:00 pm on the first day and end mid-afternoon on the last day.

Introduction to Mammal Tracking

August 8 (#810)

Limit: 13

Location: Gardiner, Montana

Instructor: James Halpenny, Ph.D.

\$70 (Member's fee \$60)

Mammal tracking can serve as a lifelong starting point for observing nature's hidden secrets. Brush up your natural history detective skills by learning to read tracks. This overview class features both lectures and fieldwork designed to help you develop your skills at finding and interpreting tracks on your own outings. The morning lecture, held at Jim's Track Museum in Gardiner, will include foot anatomy, footprint information content and identification, averaging, relative size, animal movements and gaits, trails, and stories. In the afternoon, we will travel to one of Yellowstone's hottest tracking areas to learn about locating footprints, making plaster casts, following faint trails, and interpreting stories. Bring a sack lunch and expect to get wet and muddy. Be prepared to hike up to 2 miles round trip.

We will meet at the Track Museum in Gardiner at 8:00 am and end at 5:00 pm in Gardiner. Fee includes \$5 for course materials.

Yellowstone's Geocosystem



August 8-10 (#811)

Limit: 13

Location: Mammoth Hot Springs

Instructor: Paul Doss, Ph.D.

\$125 (Member's fee \$115)

NEW

In this course we will see, firsthand, how geology puts the "system" in ecosystem! Geological characteristics truly form the foundation of any ecosystem. Those controls are magnificently displayed in Yellowstone National Park. From entire landscapes to small hillside niches, from charismatic megafauna to microscopic plants and animals, the interplay among volcanic and hydrothermal processes, rock types, hydrogeology and the distribution of flora and fauna are intricate and unique. Throughout the course we will make large and small-scale observations that show geological controls on ecosystem development. Most of our time will be spent in the field, augmented by some classroom time and brief lectures. We will occasionally have short, moderately easy hikes.

We will meet in the Mammoth area at 6:00 pm on the first day and end around lunchtime the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information.

Introduction to Yellowstone's Geological Landscapes

August 11 (#813)

Limit: 13

Location: Mammoth Hot Springs

Instructor: Paul K. Doss, Ph.D.

\$65 (Member's fee \$55)

Discover the geological forces that created Yellowstone National Park. This introductory course examines how volcanoes, glaciers, rocks, and minerals have influenced topography, soil development, canyons, waterfalls, and even species distribution. In the field, we will practice interpreting geological landscapes at Hayden Valley, Norris Geyser Basin, the majestic Gallatin Mountains, and the puzzle of LeHardy Rapids.

We will meet in the Mammoth Hot Springs area at 8:00 am and end by 6:00 pm.

Fire & Ice—Yellowstone's Last Two Million Years

August 11-13 (#814)

Limit: 13

Location: Canyon

Credit pending

Instructor: David Fountain, Ph.D.

\$190 (Member's fee \$180)

In the last two million years in Yellowstone, a dramatic interplay between repeated glaciations and catastrophic volcanic eruptions shaped the park's magnificent landscape and set the stage for the modern ecosystem. We will examine the evidence for and consequences of these events through field excursions in the Lake, Canyon, and Lamar Valley areas. We will focus on the products of glacial erosion and deposition, glacial lake deposits, evidence for climate change in the past, catastrophic floods, the nature and style of recent volcanic eruptions, hydrothermal explosions, and evidence for uplift and subsidence of the Yellowstone caldera. Be prepared for short, easy walks and one strenuous 3-mile hike up Mt. Washburn, a gain in elevation of 1,400 feet.

We will meet in the Canyon Village area at 8:30 am on the first day and end late afternoon on the last day. Fee includes \$10 for course materials. Rooms have been set aside at Canyon—contact registrar for reservation information.



History of Northern Yellowstone

August 12-13 (#815)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Leslie Quinn, M.Ed.

\$125 (Member's fee \$115)

NEW

In this class we shall travel from the Buffalo Ranch across the park's northern range, walking in the footsteps of those who made Yellowstone history and visiting the sites where they made it. Through historic photographs and the thoughts of such important persons as Osborne Russell, "Uncle Billy" Hofer, Theodore Roosevelt, and Aubrey Haines, we'll both envision bygone times and come to see how the influences of the past have brought us to the Yellowstone of today. A slide show featuring antique Yellowstone post card views and comparative views of today will be provided in the evening. As historic sites are no longer near current roads, hikes of up to two miles round-trip will be taken. While no previous experience or class work is necessary, a fascination with history and a love of Yellowstone are required.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.



Native Yellowstone

August 12-14 (#816)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Rosemary Suec, M.A.

\$180 (Member's fee \$170)

NEW

A counterpoint to the creation of Yellowstone National Park was a concerted effort to keep out Native American tribes that had regularly used the area prior to 1872. Today, these tribes are returning to the park, sharing their knowledge of Yellowstone, and fueling nothing less than a revolution in our understanding of the park's native past and present.

Alternating classroom presentations with field trips, this course will focus on Native American knowledge of the park, preserved in tribal memory, and related by living members of Yellowstone's affiliated tribes. Preparatory information will briefly cover the unique legal status of tribes, the nature of oral tradition, and American Indians' conception of the sacred. The course will end with a look ahead to the evolving relationships between Native Americans and the world's first national park, and the implications of this relationship for Yellowstone and the national park idea.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.

Interpreting the Geological Landscapes of Yellowstone

August 13-15 (#817)

Limit: 13

Location: Mammoth Hot Springs

Instructor: Paul K. Doss, Ph.D.

\$125 (Member's fee \$115)

Large-scale geological processes created the landscapes that dominate Yellowstone. Join us for this trip as we examine how the landscapes and ecosystems have developed in response to geological forces, both grand and subtle. Volcanism, glaciations, earthquakes, mineralogy, and geothermal processes, all effect topography and altitude, soil development, canyons and waterfalls, and even species distribution. Learn to observe and interpret how geologic events and geological materials "set the stage" for ecosystem development. Our observations will take us from the expanse of Hayden Valley, to the confines of Gibbon Canyon, the awe of the geyser basins, the secrets of Yellowstone Lake, and the puzzle of LeHardy Rapids. While focusing on Yellowstone, concepts and the types of observations made during this course can be used to begin interpreting landscapes in other localities and regions.

We will meet in the Mammoth Hot Springs area at 6:00 pm on the first day for an introductory presentation and end around lunchtime on the last day.

Theodore Roosevelt's Wilderness Reserve

August 14-16 (#818)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Jeremy M. Johnston, M.A.

\$180 (Member's fee \$170)

NEW

This course will examine Theodore Roosevelt's efforts to shape Yellowstone National Park into a wilderness experience for the American public. Topics covered in the course will include Roosevelt's role as a conservationist, his involvement in shaping Yellowstone's wildlife and predator control policies, and his efforts to establish a civilian administrative bureau to manage Yellowstone. Classes will be in the form of lectures, slide presentations, and open-class discussions. Field trips will go to places visited by Roosevelt during his 1903 sojourn in Yellowstone and other locations important to his legacy. Participants should be able to hike up to 2 miles with an 800-foot elevation gain and loss.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end late afternoon on the last day.

The Truman Everts Story

August 16 (#819)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nancy Procter, M.S.

\$65 (Member's fee \$55)

NEW

Today's TV *Survivors* are pale facsimiles of Yellowstone's ultimate survivor—Truman Everts. A member of the celebrated Washburn expedition, Truman Everts wandered away from camp south of Yellowstone Lake on September 9, 1870, and began the "37 days of Peril" that have become the greatest Yellowstone story of all. This one-day course explores Truman's harrowing experience through story, discussion, and participation in the field. How did Truman feel as he encountered predacious mountain lions, scalding hot springs, and creeping despair? What tools did Truman have and how did he use them? Participants should be prepared for moderately strenuous hiking and off-trail travel in rough terrain.

We will meet in the Lamar Ranch area at 8:00 am, and safely return around 5:00 pm.

Fly-Fishing for Women I

August 20-22 (#822)

(see description on pg 25)

Fly-Fishing for Women II

August 23-25 (#824)

(see description on pg 26)

The Quaking Aspen of Yellowstone

August 27-29 (#827)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: William J. Ripple, Ph.D.

\$180 (Member's fee \$170)

NEW

Aspen trees have long been admired for the aesthetic beauty of quivering leaves, white bark, and fall colors as well as their importance as food and habitat for numerous wildlife species. Join us as we experience the sights and sounds of Yellowstone's aspen forests and discover the ecological relationships of aspen with numerous wildlife species. The Yellowstone aspen have been in dramatic decline over much of the last century and we will examine the latest theories, which attempt to explain the disappearance of the aspen trees. We will explore the natural history and the long-term management of aspen and other related woody browse species such as cottonwood and willow. Can the reintroduction of wolves help aspen and other hardwoods survive? Through field observation and discussion, we will examine the role wolves have as predators on elk and the role elk have as herbivores on aspen, as well as relationships with beaver, birds, and other species. Classroom time will include slides, videos, and handouts, but field trips will be the main focus. Be prepared for light to moderate hikes and photographic opportunities will be abundant. We will visit field research sites as well as an active beaver colony.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end mid-afternoon on the last day.

Greater Yellowstone: Beyond Borders

August 27-30 (#828)

Limit: 12

Location: Lamar Buffalo Ranch/
West Yellowstone, Montana

Credit Pending

Instructors: Louisa Willcox, M.S.

& Ed Lewis

\$255 (Member's fee \$245)

NEW

Explore the management of landscapes according to ecological principles in one of the most intact ecosystems in the lower 48 states. Wildlife and ecological processes operate without regard for political boundaries so coordination between Greater Yellowstone's 30 jurisdictional land units is essential. This course examines the connections between ecology, politics, and people, how the concept of ecosystem conservation has shaped current policy in Yellowstone and elsewhere, and the promise and perils on the horizon. The course will include classroom sessions, readings, short hikes, and presentations by invited speakers. Field trips will visit sites of historic successes and present threats.

The first two days of the course will take place at the Lamar Buffalo Ranch and the last two in the vicinity of West Yellowstone.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end late afternoon the last day.



Words Inspired by Wilderness

August 30-September 2 (#830)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Alan Kesselheim

\$235 (Member's fee \$225)

NEW

Four days set in the evocative surroundings of the Lamar Valley, engaged in exploring the ways that experiences in natural settings can fuel written expression. A combination of exercises, journal-keeping, presentations, readings, and discussions will focus on the work of rendering the experience of nature into compelling and polished pieces of writing. Time each day will be devoted to being in the field and paying attention in the present—observing detail in our surroundings, using our senses, and transposing immediate experience into journal entries. We will also work at accessing and fine-tuning the broader range of life experiences—finding the openings into stories, fashioning endings, editing a rough draft, and creating themes to help make our personal stories more universal. Evening readings and discussions will illuminate elements of strong nature writing, examine the definitions of sense of place, and explore the personal drive to write.

Part of each day will be spent outside, exploring the stimulating, nearby wilderness on foot (bring appropriate clothing and shoes). Hiking will only be moderately strenuous.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:00 pm on the last day.

Shaping the Northern Yellowstone Landscape

August 31-September 2 (#832)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Grant A. Meyer, Ph.D.

\$180 (Member's fee \$170)

NEW

Northern Yellowstone displays the clear and spectacular imprint of dynamic geomorphic processes, including volcanism, glaciation and ice-dammed lakes, huge landslides, extreme floods, forest fires and debris flows, and faulting and deformation of the land surface. Most of these processes are still active. This course is designed to enable participants to read the current geological landscape, interpret its evolution, and understand how physical processes and climate are fundamental controls on Yellowstone's ecosystems. Time is mostly spent in the field, using maps and digital images to gain a larger perspective on the landscape; participants should be prepared for several short hikes each day. Slide shows provide views of less accessible areas, and illuminate scientific methods of interpreting geomorphic processes and history.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end about 3:00 pm on the last day. Introductory reading will be provided before the course.

Autumn Day Hiking in Yellowstone

September 13-15 (#903)

Limit: 13

Location: Mammoth Hot Springs

Instructors: Melissa Pangraze

& Edward Schauster, M.S.

\$200 (Member's fee \$190)

NEW

Come with us as we explore Yellowstone's backcountry in the fall. We'll enjoy hiking through aspen groves turned gold as we listen for the eerie sounds of bugling elk announcing that the mating season has begun. Day hiking will provide us with an unique opportunity to explore the wild country of Yellowstone without the burden of a heavy pack. On our hikes we'll travel through varied landscapes, glassing the high country for big horn sheep and migrating hawks, looking for moose along willow-filled creek beds and searching the open expanses of mountain grasslands for the elusive coyote, wolf, and bear. Formal and informal discussions will focus on the natural and cultural history of Yellowstone and how to be safe while traveling in the wilderness. Be prepared to hike up to 10 miles each day with elevation gains up to 1,500 feet. Participants must be in good physical condition.

We will meet in the Mammoth Hot Springs area at 9:00 am on the first day and end at 4:00 pm on the last day. Rooms have been set aside at Mammoth—contact the registrar for reservation information.

Autumn Photography in Yellowstone

September 16-19 (#905)

Limit: 11

Location: Mammoth Hot Springs

Credit Pending: U, 1 semester hour, CSU

Instructor: Sandra Nykerk

\$235 (Member's fee \$225)

Explore the many photographic opportunities of a Yellowstone autumn, from bugling elk to the delicate colors of the changing landscape. This course is designed for photographers of all levels, but a working understanding of photographic basics and a fundamental familiarity with your own equipment is assumed. Classroom sessions will review basic photographic principles, the ethics of field photography, exposure control, composition, film, and lens selection. In the field, we'll turn our attention to all aspects of the Yellowstone experience, allowing for the inspiration of the landscape and the serendipity of wildlife. Through this course, you will develop personal vision and creativity and understand the importance of natural history knowledge to the nature photographer. Lab film processing during the course for on-site feedback will be available.

We will meet in the Mammoth Hot Springs area at 9:00 am on the first day and end at 4:00 pm on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information. Participants will be expected to pay for their own lab film processing.

Fly-Fishing in the Fall

September 20-22 (#906)

Limit: 9

Location: Mammoth Hot Springs

Instructor: Richard Parks

\$260 (Member's fee \$250)

If you have some experience with fly-fishing, but want to expand and polish your skills, this course is for you. You will have the opportunity to fish several of the park streams, including the Yellowstone, Gardner, and Firehole Rivers. Most instruction will be on an individual basis or in small groups. You will receive intensive instruction for one full day, then have the opportunity to practice on your own, and meet with the group for morning and evening discussions.

We will meet in the Mammoth Hot Springs area at 8:30 am on the first day and end late afternoon on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information. Yellowstone Park fishing permits are required and available at most visitor centers.

Autumn Wolf Watching

October 11-15 (#1001)

Limit: 13

Location: Northern Range/

Slough Creek Campground

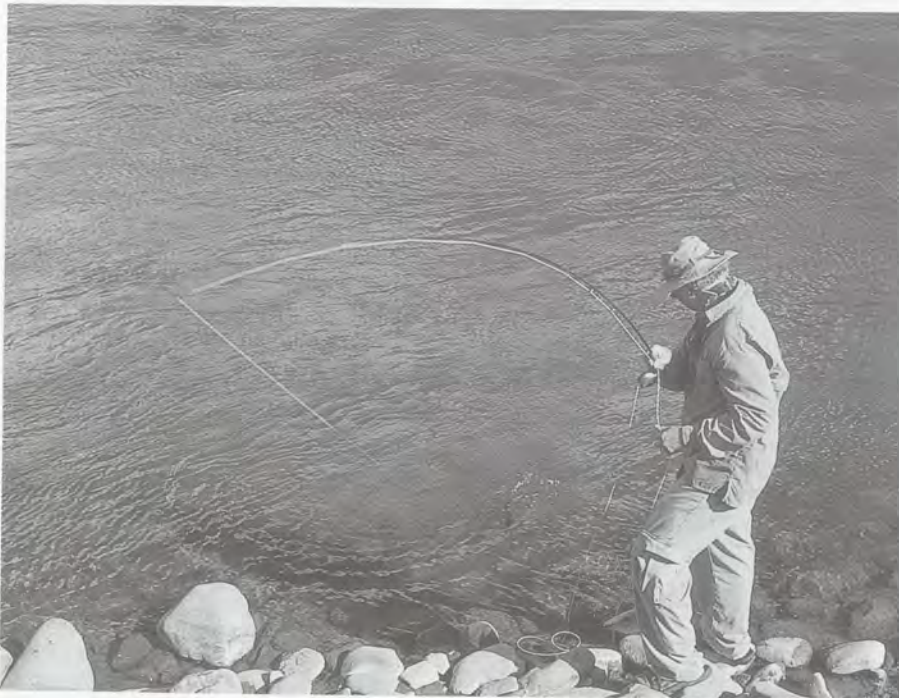
Instructor: Nathan Varley, M.S.

\$235 (Member's fee \$225)

NEW

Yellowstone is home to perhaps the world's most observable wild wolves. These fascinating predators will be the focus for this all-outdoor, natural history curriculum. The course is for the adamant wolf-lover and outdoor enthusiast. Hikes to find lesser-known packs will be sandwiched between early morning and late evening road-based searches. Evenings will be spent around the campfire enjoying presentations by guest experts. Autumn offers quiet, scenic views and nice weather, though students must be prepared for cold mornings and evenings. Students should be prepared to camp and complete strenuous off-trail hikes in sometimes rugged terrain.

We will meet at Slough Creek campground at 4:00 pm on the first day and will end at noon on the last day.



Backcountry Courses

The ingredients of every Institute backcountry course are the same:

- Multi-talented instructors who are skilled naturalists, sensitive teachers, and seasoned backcountry leaders
- Small groups of 10 students or fewer to ensure personal instruction and minimum environmental impact
- Learning about low-impact camping and travel techniques, outdoor skills, and the park's natural and cultural history
- A wilderness experience in the park's two million acre backcountry.

Guest experts accompany some courses to explore a single topic in depth. This year's guest experts include authorities on grizzly bears, hydrothermal features, nature writing, wildflowers, and wilderness literature.

The Institute has three backcountry programs—backpacking, horsepacking, and sea kayaking. Together, they allow people of diverse abilities to explore nearly every area of the park.

For all three programs, trip itineraries may change based on trail conditions and the availability of backcountry campsites and participants must secure their own accommodations before and after the course.



Backpacking Courses

Institute backpacking courses are led by Tim Hudson, M.A. A lifelong Wyoming resident, Tim is an instructor with the National Outdoor Leadership School, where he leads courses for potential NOLS instructors and other educators. He recently earned a Master's degree in American Studies with an emphasis in nature writing.

Institute backpacking courses are for physically fit adults who want to explore the park on foot. All Institute backpacking courses require hiking at high elevations (6,000–10,000 feet) with full packs. Courses are rated from 1 to 5 according to difficulty level:

- 1 Slower paced with short hikes (3 to 6 miles each day) through relatively flat terrain.
- 2 Moderately paced with moderate hikes (6 to 8 miles each day) through undulating terrain.
- 3 Moderately paced with moderate hikes (6 to 8 miles each day) through sometimes rough and steep terrain.
- 4 Strenuous routes with long hikes (8 to 13 miles each day) through sometimes rough and steep terrain.
- 5 Strenuous routes 7 days or longer with long hikes (8 to 13 miles each day) through sometimes rough and steep terrain.

Rates include tents, stoves, and other group equipment but students must provide their own personal equipment and food. Students who are not physically fit or properly equipped at the time of their course may be asked to refrain from participating.

Horsepacking Courses

Institute horsepacking courses are led by Mike and Erin Thompson, owner/operators of Wilderness Pack Trips, Inc. Mike is a guide, outfitter, and rancher, and holds degrees in animal science and agricultural education. Erin has a background in biology, horse training, and backcountry cooking. Together they provide participants with the opportunity to experience true wilderness travel.

Multi-day horsepacking courses are for adults who want to travel to remote areas of the park for a true wilderness experience. The pace of these trips is leisurely and there is time for wildlife watching and fishing but students should be prepared for long days and the unpredictable challenges posed by weather, wildlife, and terrain. Unless specified, no prior riding experience is required. Rates include all group equipment and meals prepared by the outfitter. Participants must supply their own sleeping bag, clothing, and personal supplies.

Day trips provide an excellent introduction to backcountry horsepacking. Rates include lunch and bottled water. Participants must supply their own clothing and personal supplies. Some of these trips are designed for families with children at least 8 years old.

Kayaking Courses

Sea kayaking courses are led by Jackson Hole Kayak School (JHKS). JHKS was established in 1992 and has introduced thousands of people to kayaking in Jackson Hole and Yellowstone National Park. JHKS instructors are outdoor professionals with extensive wilderness kayaking experience and broad knowledge of Yellowstone's natural and cultural history.

All courses take place on Yellowstone Lake and feature a comfortable learning progression with an emphasis on safety and fun. Instructors are especially sensitive to beginning paddlers. Rates include high-quality kayaks, paddling gear, camping equipment, and meals prepared by the outfitter. Participants must supply their own sleeping bag, clothing, and personal supplies.

Day trips provide an excellent introduction to backcountry paddling. Rates include kayaks, paddling gear, lunch, and bottled water. Participants must supply their own clothing and personal supplies.

Black Canyon Wildlife Backpack

May 25-28 (#514)

Limit: 8

Location: Black Canyon

Difficulty Level: 3

Instructor: Nathan Varley, M.S.

& Tim Hudson, M.A.

\$260 (Member's fee \$250)

NEW

Black Canyon runs through the heart of Yellowstone's famous Northern Range where the park's largest herds of elk, mule deer, pronghorn, and bighorn sheep congregate each spring. Not far behind are the wolves, bears, and mountain lions that prey on the winter-weakened herds. This course focuses on the ecology and management of these large mammals. Our route follows the Yellowstone River through a variety of forest, canyon, and desert grassland biomes. As we pass through these diverse landscapes, we will examine the unique habitat requirements of the wildlife we encounter, learn to identify and interpret animal sign, and attempt to make direct observations.

We will meet in Gardiner, Montana, at 8:30 am the first day and end at 4:00 pm the last day.

Leave No Trace Backpacking in Grizzly Country

June 1-3 (#601)

Limit: 8

Location: Rescue Creek

Difficulty Level: 2

Instructors: Tim Hudson, M.A.

& co-instructor TBA

\$195 (Member's fee \$185)

This course is for certification as a trainer in the national Leave No Trace (LNT) program, an educational program endorsed by the National Park Service and other land management agencies. The goal of the program is to promote "minimum impact" backcountry skills and ethics. This course will teach you the principles and practices of LNT and give you the skills to teach LNT to others. We will discuss the biology and ecology of grizzly bears and learn the skills necessary to reduce the possibility of dangerous encounters. The instruction is designed for all levels of experience. Our route will take us to a basecamp on Rescue Creek from which we will day hike to Mt. Everts for views of Mammoth Hot Springs, the Gallatin Range, and the Absarokas.

We will meet at the Blacktail Creek trailhead at 8:30 am on the first day and return to the trailhead at 3:00 pm on the last day.



Backpacking in Grizzly Country

June 10-13 (#605)

Limit: 8

Location: Gallatin Range

Difficulty Level: 2+

Instructors: Tim Hudson, M.A.

& co-instructor TBA

\$260 (Member's fee \$250)

If you want to learn to travel safely, confidently, and respectfully in grizzly country then this course is for you. Backpacking in the land of the "Great Bear" can be a magical experience but, for your safety and the welfare of the bear, it is essential that we learn how to co-exist. Adapting the principles of Leave No Trace to bear country, you will learn how to reduce the possibility of bear encounters and respond effectively when you do encounter a bear. Discussions will examine the grizzly bear from a number of perspectives—biological, ecological, political, and social. Our route will take us to a base camp at the foot of the Gallatin Range from which we will go on day hikes to representative grizzly habitat including riparian areas, sub-alpine meadows, and whitebark pine forests.

We will meet at the Glen Creek trailhead at 8:30 am on the first day and return to the trailhead at 3:00 pm on the last day.



Leave No Trace Backpacking Master Course

June 16-21 (#612)

Limit: 10

Location: Lamar Buffalo Ranch,

Hellroaring Creek

Difficulty Level: 2+

Instructors: John Gookin, Ivan Kowski,

& Tim Hudson, M.A.

NEW

This Master Course enables successful graduates to teach basic Leave No Trace (LNT) certification courses. The Master Course provides participants with a comprehensive overview of LNT techniques through practical applications in a field setting. The first day will be spent in the classroom, introducing the course and schedule, reviewing gear, and packing. The remaining four days will be spent on a backcountry trip learning and practicing the principles of Leave No Trace.

You will learn LNT techniques through skits, discussions, and lecture. To practice LNT teaching strategies in a supportive, educational environment, each participant will teach a short session geared toward minimum impact LNT concerns.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end late afternoon the last day. For registration and tuition information contact National Outdoor Leadership School at (307) 332-8800 ext. 2213.

Kayaking the Heart of Yellowstone: Ecology & Philosophy

June 19-23 (#616)

Limit: 10

Location: Yellowstone Lake's South Arm

Instructors: Don Nelson, Jackson Hole

Kayaking School instructor TBA

\$845 (Member's fee \$835)

NEW

Paddling deep into the South Arm of Yellowstone Lake offers the self-propelled traveler a unique look at the heart of this park. As we explore this remote area, we will also explore the experience and meaning of wilderness and the geology, ecology, and history of Yellowstone Lake. Handouts and a guidebook will supplement discussions. No prior kayak experience is necessary, but you should be in good physical health.

We will meet in the Yellowstone Lake area at 9:00 am on the first day and end at 4:00 pm on the last day. Tuition includes the cost of a motorized shuttle to our starting point at the mouth of the South Arm.



Horsepacking: "Explorer" Adult One-day horsetrips:

June 21 (#619) Limit: 6

Location: Hayden Valley

June 24 (#625) Location: Specimen Ridge

June 26 (#628) Location: Pebble Creek

June 28 (#631) Location: Lamar Valley

August 31 (#831) Location: Blacktail Plateau

September 1 (#901) Location: Slough Creek

Family One-day horsetrips:

July 1 (#701) Limit: 6

Location: Swan Lake

July 2 (#704)

Location: Hayden Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

\$150 (Member's fee \$140)

Our one-day "Explorer" rides provide an excellent introduction to backcountry adventure in Yellowstone. The experienced staff of Wilderness Pack Trips, Inc. will meet you at a predetermined location, review the basics of backcountry horsemanship, and introduce you to special areas in the park. The locations for these trips are selected based on their diverse scenery and opportunities for wildlife viewing. In an effort to create the least impact on Yellowstone's early season terrain, these trips are subject to last minute change.

We will meet at the trailhead at 9:00 am (lunch and water will be provided.) The ride will end around 4:00 pm.

Introduction to Yellowstone Backpacking— Chain of Lakes

June 24-28 (#627) Limit: 8

Location: Chain of Lakes

Difficulty Level: 1+

Instructor: Tim Hudson, M.A.

& co-instructor TBA

\$295 (Member's fee \$285)

NEW

Chain of Lakes is an ideal introduction to Yellowstone backpacking. Flat trails wind through open wildflower meadows with the snow-capped peaks of the Washburn Range in the background. Bison and moose are frequent visitors to this area as are sandhill cranes and blue herons. From our lakeshore campsites, we will day hike to the summit of Observation Peak for views of the Absaroka Range, Grand Canyon of the Yellowstone, Hayden Valley, Yellowstone Lake, the Gallatin and Madison Ranges, and, far to the south, the Tetons.

Classes will focus on the skills and knowledge necessary to travel safely, comfortably, and respectfully in a wilderness setting. We will also explore the human and natural history of this area with an emphasis on geology, wildflowers, wildlife conservation, and grizzly bears. We will spend the first afternoon and night at the Canyon campground and head into the backcountry the next morning.

We will meet at a group campsite at Canyon campground at 4:00 pm on the first day and end late afternoon the last day.

Introduction to Yellowstone Backpacking— Shoshone Lake

July 1-5 (#703)

Limit: 8

Location: Shoshone Lake

Difficulty Level: 3

Instructor: Tim Hudson, M.A.

& co-instructor TBA

\$295 (Member's fee \$285)

NEW

Shoshone Lake is the largest backcountry lake in the lower 48 states, home to the largest backcountry geyser basin in the park, and the memorable setting for this introduction to Yellowstone backpacking. Beginning at the Lone Star Geyser trailhead, we will proceed to Douglas Knob for views of Yellowstone's southwest corner before traveling over the Continental Divide to Shoshone Lake. At the Lake, we will explore the geyser basin and the lake itself before heading out through the meadows of Delacy Creek.

Classes will focus on the skills and knowledge necessary to travel safely, comfortably, and respectfully in a wilderness setting. We will also explore the human and natural history of this area with an emphasis on geology and hydrothermal systems.

The course will begin at the group campsite at Bridge Bay campground at 4:00 pm on the first day and end late afternoon the last day.



Water, Wilderness & Women

July 6-10 (#712)

Limit: 10

Location: Yellowstone Lake's Flat

Mountain Arm

Instructors: Julianne Baker, M.A. &

Jackson Hole Kayak School instructor TBA

\$795 (Member's fee \$785)

NEW

Paddle the shores of Yellowstone Lake to remote Flat Mountain Arm with a Yellowstone naturalist, an expert paddling instructor, and a group of fellow outdoorswomen. Together, we will have fun, learn about Yellowstone's natural history, attempt to view wildlife, and practice our camping and paddling skills. Particular attention will be paid to the relationship between women and wilderness, both in the abstract and for each of us personally. Journals are a powerful way to explore that relationship and we will use them to help us reconnect with the wild side of ourselves and the beauty surrounding us. No prior kayak experience is necessary, but you should be in good physical health.

We will meet in the Yellowstone Lake area at 9:00 am on the first day and end at 4:00 pm on the last day.

Horsepacking: Life in the Lamar Valley

July 7-12 (#714)

Limit: 8

Location: Lamar River Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

\$1,495 (Member's fee \$1,485)

For six days, we will explore the spectacular Lamar River drainage, from river bottom to mountain plateau. Highlights of this course include wildlife viewing, plant identification, and fly-fishing. The trip is designed as an educational experience and participants will learn the basics of backcountry riding, camping, and fly-fishing. We will also provide an introduction to the remarkable diversity of plants and animals in the Lamar Valley. No prior riding or fly-fishing experience is required.

We will meet at the Lamar River trailhead at 8:45 am on the first day and return to the same trailhead around 4:00 pm on the last day.

Backpacking for Wildflowers

July 8-10 (#715)

Limit: 8

Location: Pebble Creek

Difficulty Level: 2+

Instructors: Meredith Campbell, M.S.

& Tim Hudson, M.A.

\$225 (Member's fee \$215)

NEW

Explore the Wild in wildflowers as we head into the backcountry to learn about Yellowstone's floral beauties. To learn about and identify as many species as possible, we will visit a variety of wildflower habitats including sub-alpine meadows, alpine meadows, and spruce/fir forest. Field sketching will be introduced as a method for learning about and recording different wildflower species. No drawing experience or artistic skill is necessary.

We will meet at 8:30 am at the upper Pebble Creek trailhead and end around 3:00 pm at the Pebble Creek campground on the last day.

Backpacking—Literature of the Wild

July 16-19 (#728)

Limit: 8

Location: Pebble Creek & Slough Creek

Difficulty Level: 3

Instructor: Tim Hudson, M.A.

& co-instructor TBA

\$260 (Member's fee \$250)

NEW

For generations, men and women have attempted to interpret the wilderness through the written word. Now, at the beginning of the twenty-first century, nature writing is more popular and prevalent than ever. What better place to examine the poetry and prose of wildness than in the Yellowstone backcountry? Through readings and group discussions we'll trace the evolution of nature writing from Thoreau to Lopez and Muir to Oliver. Our route travels through relatively pristine areas (Pebble Creek and Bliss Pass) and relatively disturbed areas (the old wagon road along Slough Creek) giving us an opportunity to explore the meaning of wilderness and the relationship between human beings and nature.

We will meet in the Lamar Buffalo Ranch area at 8:30 am on the first day and return around 3:00 pm on the last day.

Horsepacking: Backcountry Basics

July 22-25 (#734)

Limit: 8

Location: Lamar Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

\$995 (Member's fee \$985)

NEW

Backcountry Basics is a great starting point for those interested in using horses or mules in the backcountry. Designed to meet the needs of both first time enthusiasts and the more experienced backcountry traveler, the course provides hands-on experience in using stock, stock retention methods, camp setup, menu planning, and food handling in bear country. Students will use these low impact methods to minimize impact on the resources and meet required National Park Service regulations. No prior riding experience is required.

We will meet at the Lamar River trailhead at 8:45 am on the first day and return to the same trailhead around 3:00 pm on the last day.

Hoodoo Basin Backpacking Expedition

July 23-28 (#736)

Limit: 8

Location: Hoodoo Basin Area

Difficulty Level: 4

Instructors: Tim Hudson, M.S.

& Nathan Varley, M.A.

\$390 (Member's fee \$380)

NEW

Explore some of Yellowstone's most dazzling high country on this challenging route to one of the least visited areas of the park. Hoodoo Basin was named by early explorers for its many enormous and unusually sculpted rock formations, or hoodoos. The route follows the Lamar River and its Miller Creek tributary east to the chiseled peaks of the park's remote eastern boundary where we will discover a hidden basin containing some of nature's most intriguing rock formations. Discussions will focus on the geology of the hoodoos and the Absaroka Range, the alpine shortgrass and wildflower communities in Hoodoo Basin, and Yellowstone's diverse community of wildlife species.

We will meet in the Lamar Buffalo Ranch area at 8:30 am on the first day and return late afternoon on the last day.

Horsepacking: Poacher's Cabin

July 28-31 (#744)

Limit: 8

Location: Pelican Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

& Lee H. Whittlesey, J.D.

\$1,045 (Member's fee \$1,035)

Step back in time to the era when poachers plied their trade in Yellowstone. In this course, we will learn about low impact horsepacking methods as we explore the impact of poachers on the preservation of America's first national park, from the early days to the present. Participants will visit the remains of one poacher's cabin and discuss the challenges of wildlife management in the park. Day rides will include the Poacher's Cabin, thermal areas and a variety of wildlife/waterfowl viewing areas.

We will meet at the Pelican Valley trailhead at 8:45 am on the first day and return to the same trailhead around 4:00 pm on the last day.

Kayaking Yellowstone Lake

August 3 (#805)

Limit: 12

August 10 (#812)

Limit: 12

August 17 (#821)

Limit: 12

Location: Yellowstone Lake

Instructor: Jackson Hole Kayak School

instructor TBA

\$135 (Member's fee \$125)

Learn the basics of kayak touring as you explore the west shore of Yellowstone Lake. This trip gives you a taste of kayaking and an opportunity to leave cars and trails behind. View wildlife, thermal features, the Absaroka peaks, and the expanse of Yellowstone Lake from the water.

Touring kayaks are swift, quiet, and stable. Before embarking your guide will teach you the skills needed to handle your boat. If you are comfortable with water, this is a great way to see the park from a different perspective and at a casual pace.

We will meet in the Yellowstone Lake area at 9:00 am and end late afternoon.

Backpacking—Old Faithful to the Bechler Region

August 6-11 (#808)

Limit: 8

Location: Old Faithful/Bechler

Difficulty Level: 2+

Instructors: Tim Hudson, M.A.

& co-instructor TBA

\$390 (Member's fee \$380)

Hike with us from the Old Faithful area up over the Continental Divide to Cascade Corner, where the moist climate and relatively low altitude combine to create a rich variety of flora and fauna and an amazing collection of waterfalls. Daily discussions will explore a variety of subjects with an emphasis on the geology and ecology of the area. We will have one layover day for rest, exploration, and a dip into one of the finest hot springs in the world.

We will meet at the Bechler Ranger Station at 8:00 am on the first day and end late afternoon the last day.

Backpacking—Grizzlies of the Gallatin Range

August 16-20 (#820)

Limit: 8

Location: Gallatin Mountains

Difficulty Level: 3

Instructor: Kerry A. Gunther, M.S.

& Tim Hudson, M.A.

\$375 (Member's fee \$365)

NEW

Join us for a backpacking trip through the Gallatin Range, spectacular country and prime grizzly bear habitat. While hiking and camping you will learn about bear ecology and management through discussions about bear behavior, food habits, habitat use, bear-human interactions, and bear-human conflict resolution. We may see grizzly bear or black bear tracks, scats, or feeding sign along the trail and maybe even a bear. We will meet on the evening of August 16 in Mammoth for a slide presentation on hiking safely in grizzly bear country and a demonstration on the use of bear deterrent spray. The next morning, we will head into the backcountry.

We will meet in the Mammoth area at 7:00 pm on the first day and end late afternoon on the last day. Students are responsible for getting their own campsite or accommodations at Mammoth on the first night.



Writing on Water

August 20-24 (#823)

Limit: 10

Location: Yellowstone Lake's Southeast Arm

Instructor: Alan Kesselheim & Jackson Hole

Kayak School instructor TBA

\$845 (Member's fee \$835)

NEW

Paddling a kayak is the best way to experience the remote reaches of Yellowstone Lake and traveling through a stimulating wilderness in self-propelled craft evokes meaningful creative expression like few other activities. For five days we will probe the quiet southern reaches of Yellowstone Lake, in and out of the great arms, at the same time that we explore the interior boundaries of our thoughts and emotions through the written word. Travel time will be interspersed with daily instructional sessions aimed at keeping a field journal, writing personal essays, and observing wild surroundings with a writer's eye. Free-ranging evening discussions and readings will be shared around nightly campfires. There will also be ample time provided for solitude and exploration, on land and water. Paddling will be moderately strenuous, but no previous kayaking experience is required.

We will meet in the Yellowstone Lake area at 9:00 am on the first day and end at 4:00 pm on the last day. Tuition includes the cost of a motorized shuttle to our starting point at the mouth of the Southeast Arm.

Horsepacking: Backcountry Hot Spots

August 26-29 (#825) Limit: 8

Location: Pelican Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

& Duncan Foley, Ph.D.

\$1,045 (Member's fee \$1,035)

NEW

Join us for a four-day backcountry horsepacking trip to visit some of Yellowstone's most varied and least visited mud pots and hot springs. We will ride in about 14 miles to base camp in the upper Broad Creek area, and then do day rides to Joseph's Coat Hot Springs and Hot Springs Basin. Class conversations will focus on the dynamic geology of the varied terrain that we will be crossing, and the nature and occurrence of the mud pots and hot springs that we will see. Participants should be able to ride horses and walk moderate terrain in and near thermal basins. Participants do not need to have any background in geology, but should be interested in learning more about Yellowstone's deep history and current geological systems.

We will meet at the Pelican Creek trailhead at 8:30 am on the first day and return to the same trailhead around 4:00 pm on the last day.

Thorofare Backpacking Expedition

August 26-September 3 (#826) Limit: 8

Location: Thorofare

Difficulty Level: 5

Instructors: Tim Hudson, M.A.

and co-instructor TBA

\$585 (Member's fee \$575)

NEW

The Thorofare is the most remote spot in the lower 48 states and the ultimate Yellowstone expedition. Our route traces the shore of Yellowstone Lake before heading into the Thorofare where we will stay two nights. From there, we will climb to Eagle Pass on the east border of the park and descend through the Washakie Wilderness.

Ironically, the Thorofare was so named because the route was so well traveled by native peoples and the fur trappers. We'll use the continuing collision of the wild and the civilized that is the Thorofare to explore the meaning of wilderness, the relationship between man and nature, and historic, present, and future human impacts on this landscape.

We will meet at 8:30 am at the Nine-Mile trailhead northeast of Yellowstone Lake and end late afternoon the last day.

Horsepacking: Trails Less Traveled

September 8-11 (#902) Limit: 6

Location: Lamar Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

\$995 (Member's fee \$985)

Would you like to develop the skills and confidence necessary to safely visit the remote backcountry of Yellowstone? The goal of this course is to explore some remote trails and use low impact methods to reduce the impact on the resources. Participants will be involved in map reading, route finding and plenty of horseback riding, while incorporating low impact methods into camp setup and stock usage. Previous riding experience is recommended.

We will meet at the Lamar River trailhead at 8:45 am on the first day and return to the same trailhead around 4:00 pm on the last day.

Horsepacking: Autumn Sights & Sounds

September 15-20 (#904) Limit: 8

Location: Lamar Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

\$1,495 (Member's fee \$1,485)

Fall is a wonderful time to be in Yellowstone's natural classroom. The summer crowds are gone, the cottonwood trees have turned to brilliant gold, the crisp evenings are perfect for stargazing, and all around you is the sound of bugling elk. In this course, we will enjoy September's solitude and listen for the elk, the sandhill cranes, and the wolves. We'll also explore the Lamar Valley and practice the latest methods of low impact camping with horses and mules.

We will meet at the Lamar River trailhead at 8:45 am on the first day and return to this trailhead around 4:00 pm on the last day.



Elaine Anderson, Ph.D.

(*Bears: Bones, Signs & Stories; The Evolution, Ecology & Future of the Wolf Family*) is a research associate in earth sciences at the Denver Museum of Nature and Science and co-author of *Pleistocene Mammals of North America*. She teaches comparative mammalian osteology at the museum and is writing a book on osteology.

Robert Anderson, Ph.D.

(*Introduction to the Butterflies of Greater Yellowstone; Advanced Studies on Butterflies of Yellowstone*) is an entomologist and professor of biological sciences at Idaho State University. He has published works on applied ecology and medical entomology, and produced videos on crickets, insect collecting, and butterflies of Yellowstone and Grand Teton National Parks.

Orville E. Bach, Jr., Ed.D.

(*Day Hiking—A Trail Time Forgot; Uncovering Secrets of the Lower Geyser Basin; Exploring Yellowstone by Map & Compass*) has worked for 26 seasons as an interpretive ranger in Yellowstone National Park and is the author of *Exploring the Yellowstone Backcountry*. He has hiked, skied, and canoed the Yellowstone backcountry for the past 32 years.

Julianne Baker, M.A.

(*Water, Wilderness, & Women*) has a masters degree in outdoor environmental education and 31 years of teaching experience (primarily in environmental science). Since 1974, Julianne has spent her summers in the Greater Yellowstone Ecosystem hiking, backpacking, llama trekking, horsepacking, and mountaineering. She has Wilderness First Responder and Red Cross Wilderness First Aid certifications and has kept a journal since 1976.

Gene Ball

(*Wildlife Watching in Grizzly Country*) was director of the Yellowstone Association and Institute from 1985-88. He now lives in Meeteetse, Wyoming, and does free-lance projects for a variety of organizations throughout the West.

Norman A. Bishop

(*Wolf Watching in Yellowstone, Ripple Effect: The Ecology of Wolf Restoration*) retired from the National Park Service in 1997 after 36 years, the last 17 at Yellowstone. From 1985-1997, Norm was the principal interpreter of wolf restoration. He has led 18 wolf seminars for the Yellowstone Association and Teton Science School. For his wolf work, Norm received a number of awards including a USDI Meritorious Service Award and GYC's 1991 Stewardship Award. Norm co-authored *Yellowstone's Northern Range: Complexity and Change in a Wildland Ecosystem*.

Mark S. Boyce, Ph.D.

(*Predator-Prey Systems*) is professor of biological sciences at the University of Alberta, Edmonton. Boyce has been a researcher in the Greater Yellowstone Ecosystem since 1977 including work on elk, bison, wolves, and grizzly bears. He is author of more than 200 scientific articles and 7 books including *The Jackson Elk Herd* and co-editor of *Elk of North America, The Greater Yellowstone Ecosystem, and Ecosystem Management*.

John Burger, Ph.D.

(*Yellowstone's Insect Vampires*) is professor of zoology at the University of New Hampshire. He specializes in the ecology of blood-feeding insects, especially horse flies. Since 1990, John has been conducting research focusing on the ecology of black flies in Yellowstone's streams and rivers and long-term regeneration of vegetation following the 1988 fires.

Steven W. Buskirk, Ph.D.

(*Mid-Sized Carnivores*) is professor of zoology and physiology at the University of Wyoming and has studied the biology and conservation of mid-sized carnivores for over 20 years. He has published over 50 articles and book chapters on his studies of habitat ecology and population genetic structure of martens, badgers, fishers, sables, and black-footed ferrets in the Rocky Mountains, Alaska, and China.

John S. Campbell, Ph.D.

(*Alpine Wildflowers*) is associate professor of biology at Northwest College, located immediately east of Yellowstone National Park. He has been studying the ecology of arctic and alpine plants since 1973, including projects in the Wind River Mountains and on the Beartooth Plateau. He has recently published an extensive review of the North American alpine ecosystems.

Meredith E. Campbell

(*The Art of Wildflower Identification; Backpacking for Wildflowers*) has a B.S. degree from St. Lawrence University and a Certificate in Scientific Illustration through the Guild of Natural Science Illustrators given at Cornell University. Meredith has had her work published in a number of science textbooks, articles and magazine publications. She has been teaching wildflower identification and field sketching for twelve years in California and Wyoming. She currently teaches at the Teton Science School, the Journeys School and the Yellowstone Institute for ages K-adult.

John C. Carlson, Ph.D. candidate

(*Introduction to Yellowstone Birds*) is zoology program manager for the Montana Natural Heritage Program in Helena, MT, a clearing-house of information on Montana's animals. He also is a Ph.D. candidate at Montana State University in Bozeman. He has conducted bird research from Antarctica to Greenland, including surveys in Yellowstone. John is currently investigating the population dynamics of Adelie penguins on the Antarctic Peninsula, grassland birds in northeastern Montana, and bats throughout the state.

Eleanor Williams Clark, M.L.A.

(*Artistic Field Journals, Painting in Lamar Valley*) has kept journals of landscape projects, filled with observations, for 14 years. Her work as Yellowstone's chief landscape architect includes coordinating park projects and setting standards for design and construction. Landscape design involves ecology, sculptural aspects of landscape, and the influence of artistic endeavors that shape our connections to the land.

Mike Clark

(*Exploring Greater Yellowstone's Future*) is executive director of Yellowstone Heritage, an organization he founded to preserve wildlife habitat and working landscapes on private lands in the Greater Yellowstone Ecosystem. From 1994-2001, he was the executive director of the Greater Yellowstone Coalition, the region's largest environmental organization. He has served as chief executive of several regional and national organizations, including Friends of the Earth—United States, the Environmental Policy Institute, and the Northern Lights Institute.

Lance Craighead, Ph.D.

(*Conservation of Grizzly Bears in North America*) is research director of the Craighead Environmental Research Institute in Bozeman, Montana, adjunct assistant professor of Biology at Montana State University, and vice president of the Northern Rockies Conservation Cooperative. His current work is wildlife reserve design using the habitat needs of key carnivore umbrella species (particularly grizzly/brown bears) as a basis for designing protected areas in Montana, Wyoming, and British Columbia. In 2000, he published his first book: *Bears of the World*.

Bert Cushing, Ph.D.

(*The Ecology of Streams*) was a senior research scientist at the Pacific Northwest Laboratories and adjunct professor at Washington State University-Tri Cities. He presently holds a Faculty Affiliate position at Colorado State University. He has over 40 years of experience in studying streams and has published widely on this subject. He edited the book *River and Stream Ecosystems of the World*, is the co-author of the recently published book *Streams: Their Ecology and Life*, and is past-president of the North American Benthological Society.

Paul K. Doss, Ph.D.

(*Yellowstone's Geoecosystem, Introduction to Yellowstone's Geological Landscapes; Interpreting the Geological Landscapes of Yellowstone*) served as the supervisory geologist for Yellowstone National Park from 2000-2001. He is currently chairman of the Department of Geology and Physics at the University of Southern Indiana. During his career in academia, Paul researched and taught in Indiana Dunes National Lakeshore, Acadia, and Everglades National Parks. He has taught field geology, conducted research, and completed geologic mapping in the Rocky Mountain Region and the Yellowstone Plateau for nearly two decades.

Katy Duffy, M.S.

(*In Celebration of Birds*) is hooked on birds and is a licensed bird bander who specializes in owls, hawks and songbirds. Her degree in ecology is from Rutgers University. A resident of the Greater Yellowstone Ecosystem for 20 years, she worked as a naturalist for Grand Teton National Park for many years and is currently the west district interpretive ranger for Yellowstone National Park.

William C. Edwards, Ph.D.

(*Wildflowers in the Mammoth Area*) is a retired professor living in the Yellowstone area north of Gardiner, Montana. He worked as a seasonal ranger/naturalist in Grand Teton and Rocky Mountain National Parks and taught biology at high school, junior college and university levels. He has conducted research in plant ecology in Grand Teton and Yellowstone National Parks.

Nita Engle

(*Handling the Water in Watercolor*) is one of America's foremost watercolor artists and well known for her vibrant landscapes. A member of the American Watercolor Society since 1969, Nita has been recognized by the Society of Illustrators, The National Academy of Design, and the National Arts Club among others. Her art is widely collected and is included in museums and private collections in the U.S., Great Britain, Japan, and France.

Terry Enk, Ph.D.

(*Mountain Dwellers of the Yellowstone Ecosystem; Plant Eaters of Yellowstone*) is a wildlife biologist currently working with the World Wildlife fund to help develop a binational, cooperative management program involving Big Bend National Park and adjacent protected areas in Mexico. Dr. Enk obtained his doctorate in wildlife biology from Montana State University, where he conducted research on bighorn sheep and mountain lions. His teaching experience includes several undergraduate courses at Montana State University as well as three years at the Yellowstone Institute.

Sharon Eversman, Ph.D.

(*Lichens & Mosses in Yellowstone National Park*) is associate professor of biology at Montana State University, Bozeman, and teaches botany and plant ecology courses. She has published numerous papers on lichens in the park and surrounding areas, and is currently documenting the return of lichens and mosses after the 1988 fires.

Duncan Foley, Ph.D.

(*Geysers, Mud Pots & Hot Springs; Horsepacking: Backcountry Hot Spots*) is professor of geosciences at Pacific Lutheran University in Tacoma, Washington. He has worked throughout the western United States and in Guatemala on the geology of hydrothermal (natural hot water) systems. He has taught courses at the Institute for 23 years, emphasizing both the geology of the Yellowstone volcano and the dynamic nature of hydrothermal features.

David Fountain, Ph.D.

(*Geology of the Yellowstone Country; Fire & Ice—Yellowstone's Last Two Million Years*) is a professor of geology and geophysics at the University of Wyoming. He has taught field courses in Yellowstone and Glacier National Parks, served as co-instructor in a National Science Foundation course for science teachers, and was editor of the journal *Geology* for the Geological Society of America. His research interests are crustal evolution and structure, which he has studied in Europe, Canada, the northwest Pacific Ocean, and the Rocky Mountains.

David Gaillard, M.E.S.

(*Wolf Recovery in the Northern Rockies*) is program associate for Predator Conservation Alliance (PCA), a non-profit conservation group based in Bozeman, Montana. He coordinates PCA's Forest Predator Program, where he serves as a regional leader on wolf conservation issues. He has lived in Bozeman since 1990, working on the conservation of wide-ranging predators. His degree is in environmental studies from Yale University, where he focused on the policy of conservation biology.

Jim Garry, M.S.

(*Spring Wildlife on the Northern Range; Spring Returns to Yellowstone; Bears: Bones, Signs & Stories; Along the Yellowstone River with Lewis & Clark; The Nez Perce in Yellowstone; John Colter; The Bison of Yellowstone*) is both a naturalist and a folklorist, with degrees in natural history and environmental communications from University of Michigan. Originally from Texas, Jim has spent a good part of the last 30 years in the Yellowstone ecosystem. Since 1980 he has directed Great Plains Lore and Natural History, Inc. His research and teaching focus on the overlap of natural history, history, folklore, and myth. Jim is the author of *This Ol' Drought Ain't Broke Us Yet* and *The First Liar Never Has a Chance*.

Eric M. Gese, Ph.D.

(*Coyote Behavior, Ecology, & Management*) is a research wildlife biologist with the National Wildlife Research Center, and a research assistant professor in the Department of Fisheries and Wildlife at Utah State University. He has researched wild canids (coyotes, wolves, and foxes) since 1983 and published numerous papers on canid behavior, ecology, and management. His Ph.D. research was on the behavior and ecology of coyotes in the Lamar Valley.

John Gookin

(*Leave No Trace Backpacking Master Course*) has been a National Outdoor Leadership School (NOLS) instructor since 1981 and has worked more than 240 weeks in the field teaching wilderness, mountaineering, winter, caving and whitewater courses. He has been NOLS curriculum manager since 1989 and was a charter recipient of the NOLS Instructor Award.

Kerry A. Gunther, M.S.

(*Grizzly & Black Bear Ecology & Management; Backpacking—Grizzlies of the Gallatin Range*) is the bear management specialist for Yellowstone National Park where he has worked in bear management and research for the last 18 years. He has also worked as a professional backcountry guide, canoed to the Arctic Ocean, sea kayaked in Baja, and done extensive backcountry trips throughout the U.S., Canada, and Mexico. He has published papers on bear management, grizzly bear-human interactions, bear inflicted human injuries, bear-human conflict resolution, and grizzly bear predation on elk calves. He is the recipient of the 1997 Sigurd Olsen Environmental Achievement Award.

James Halfpenny, Ph.D.

(*Mammal Tracking: Interpreting Tracks, Scat & Other Signs*; *Bears: Bones, Signs & Stories*; *The Evolution, Ecology & Future of the Wolf Family*; *The Lesser-Known Carnivores Of The Greater Yellowstone Ecosystem*; *Introduction to Mammal Tracking*) is an ecologist and educator. He was coordinator of Long-Term Ecological and Alpine Research at the University of Colorado. Jim and his partner, Diann Thompson, owners of A Naturalist's World, travel North America teaching about bears, wolves, and animal tracks. They also produce educational videos. Jim has taught field courses since 1961 and wrote *A Field Guide to Tracking in North America*, *Winter: An Ecological Handbook*, and *Discovering Yellowstone Wolves*.

Peter Hassrick, M.A.

(*History of Yellowstone Artists*) is past Charles Marion Russell Professor of American Western Art at the University of Oklahoma and director emeritus of the university's Charles M. Russell Center for the Study of Art of the American West in Norman, Oklahoma. He was the founding director of the Georgia O'Keeffe Museum in Santa Fe, New Mexico, and director of the Buffalo Bill Historical Center in Cody, Wyoming. His books include *Charles Russell*, and the forthcoming *Drawn to Yellowstone: Artists in America's First National Park*.

Hannah Hinchman

(*A Trail Through Leaves—The Art of the Field Journal*) lives in Augusta, Montana, with four cats, two horses, and a dog. She's been keeping illuminated journals for over 30 years, and is the author of two books on the subject: *A Trail Through Leaves: the Journal as a Path to Place* and *A Life in Hand: Creating the Illuminated Journal*. She's at work on an illustrated "Book of Walks."

Tim Hudson, M.A.

(*Backpacking courses*) is a lifelong Wyoming resident who has spent over 30 years hiking and paddling the backcountry of North America. An experienced naturalist and educator, Tim is an instructor with the National Outdoor Leadership School (NOLS), where he leads courses for potential NOLS instructors and other educators. He is certified as a Master of the national Leave No Trace program and holds a Master's degree in American Studies with an emphasis in nature writing.

Jackson Hole Kayak School

(*Kayak courses*) was established in 1992 and has introduced thousands of people to kayaking in Jackson Hole and Yellowstone National Park. All instructors are outdoor professionals with extensive wilderness kayaking experience and interpretive skills. Institute courses are designed for beginners and safety is paramount. Instructors are trained in first aid and equipped with rescue equipment, radios and bear spray.

Jeremy M. Johnston, M.A.

(*Theodore Roosevelt's Wilderness Reserve*) is an assistant professor of history at Northwest College located in Powell, Wyoming. He has taught Wyoming and Western history for the past six years, including a college-level course on the history of Yellowstone National Park. He has been researching the role of Theodore Roosevelt in Yellowstone National Park and his writings have been published in *Readings of Wyoming History*, *The George Wright Forum*, and various newspapers.

Alan Kesselheim

(*Words Inspired by Wilderness, Writing on Water*) has spent twenty years as a freelance writer, and lives with his family in Bozeman, Montana. Kesselheim has written hundreds of magazine pieces and eight books, including *Water and Sky: Reflections of a Northern Year* and *Threading the Currents: A Paddler's Passion for Water*. He is also an accomplished paddler and wilderness adventurer, having twice crossed Canada by canoe, wintering en route. Kesselheim has taught dozens of writing workshops throughout North America, from the Yucatan to Canada.

Ivan Kowski

(*Leave No Trace Master Backpacking Master Course*) is a certified master of the national Leave No Trace (LNT) program. He has worked for the National Park Service in Yellowstone's Central Backcountry Office since 1998 and spends much of his free time backpacking and exploring Yellowstone's backcountry.

Ed Lewis

(*Greater Yellowstone: Beyond Borders*) provides programmatic, organizational and strategic planning consulting to the conservation community and environmental grantmakers. From 1986 through April 1994, Mr. Lewis served as executive director of the Greater Yellowstone Coalition, a regional conservation organization dedicated to ensuring the preservation of the Greater Yellowstone Ecosystem. Mr. Lewis currently serves on the board of directors of Earthjustice Legal Defense Fund and Jazz Montana.

Lawrence Loendorf, Ph.D.

(*The Sheep Eaters*) has a long-term record of archaeological and historical research in western America. He has taught in universities for 30 years and his current appointment is with New Mexico State University. Born and raised in Billings, Montana, Loendorf has always been interested in the former hunting and gathering cultures of Montana and Wyoming. Working with Peter Nabokov, he recently completed a historical and ethnographic overview of Indians in Yellowstone National Park.

Terry McEneaney

(*Waterfowl Identification & Ecology*; *Birding by Jizz*) is the staff ornithologist for Yellowstone National Park. He has taught field ornithology courses for the Nature Conservancy in Montana and is the author of *Birds of Yellowstone*, *The Uncommon Loon*, and *The Birder's Guide to Montana*. He is the chairman of the Montana Bird Records Committee, a member of the Wyoming Bird Record Committee, and is writing a book on the ecology of Yellowstone birds.

Grant A. Meyer, Ph.D.

(*Shaping the Northern Yellowstone Landscape*) is an assistant professor in the Department of Earth and Planetary Sciences at the University of New Mexico. He has studied landforms and active geological processes in Yellowstone since 1983. His paper on the long-term effects of forest fires and climate change on northern Yellowstone landforms won the 1997 Kirk Bryan Award of the Geological Society of America.

Paul Miller

(*Lamar Valley Service Learning—Noxious Weeds*) has been working for the National Park Service in Yellowstone for 42 years, the last 9 as resource manager for the northern district. Much of his time is spent educating the public about the ecology and management of noxious weeds and working to identify and control noxious weeds in the northern section of the park. He is a member of the Montana Noxious Weed Association.

Leland Roy Mink, Ph.D.

(*The Yellowstone Geyser Basins in Spring*) serves as director of the Idaho Water and Energy Research Institute with the University of Idaho. In this position, he works on water quality studies in several Idaho watersheds. He also has extensive experience in geothermal systems, was formerly chief of the geothermal energy branch of the U.S. Department of Energy at Idaho Falls, and has worked on national and international geothermal projects.

Lisa Morgan, Ph.D.

(*Geology of Yellowstone Lake*) is a research geologist for the U.S. Geological Survey. Her focus for the past 23 years has been on the geology and geophysics of volcanic terrains, including those of the eastern Snake River Plain and Yellowstone Plateau, Cascades, Hawaii, and Japan. With Ken Pierce, Morgan developed major concepts and a model for the Yellowstone hot spot. Her current research focuses on the Yellowstone Plateau, mapping and interpretation of the geology and potential geologic hazards in Yellowstone Lake, and physical processes associated with large-volume caldera-forming eruptions and hydrothermal explosions.

Kerry Murphy, Ph.D.

(*Wild Cats of the Northern Rockies*) is employed in Yellowstone National Park as a wildlife ecologist and management biologist. Kerry currently works on furbearer (e.g., lynx) and endangered species conservation, and has extensive research and management experience with cougars in the Northern Rocky Mountains. He has published numerous scientific and popular articles on the ecology of carnivores.

Sue Consolo Murphy, M.S.

(*Grizzly Bear Ecology & Management*) has worked in Yellowstone as a ranger/ resource manager since 1982. Currently the chief of the Branch of Cultural Resources, her previous experience includes 8 years specializing in endangered species recovery and management, including work with the Interagency Grizzly Bear Study Team, and membership on the long-term conservation strategy team for Greater Yellowstone's grizzlies. She has authored several papers on grizzly bear management and a book, *Wildlife @ Yellowstone*. She lives in Mammoth Hot Springs with her wildlife-biologist husband and two young daughters.

Don Nelson

(*Kayaking the Heart of Yellowstone: Ecology & Philosophy*) was the director of the Yellowstone Association Institute from 1991 to 1997. He has traveled and taught extensively in wilderness settings over the past 30 years, where he has particular interest in backpacking, winter camping, and sea kayak camping. He worked for the National Audubon Society for nine years as a regional representative, camp director, and instructor. Don currently teaches high school history and geology. He is the author of *Paddling Yellowstone and Grand Teton National Parks*.

Sandra Nykerk

(*Field Photography in Yellowstone: The Creative Image; Nature Photography in Yellowstone: Building a Foundation for Creativity; Autumn Photography in Yellowstone*) is a naturalist and photographer who lives on the Yellowstone border in Gardiner, Montana. She has been teaching photography and leading natural history workshops throughout the country for nearly 20 years. Her photographs and fine art images have been widely published and exhibited in galleries throughout the region. Her degree in directed interdisciplinary studies integrated photography, cultural anthropology, and environmental history; her research topic on tourism in Yellowstone included the role of the photographic image in the cultural perceptions of natural spaces.

Doug Ouren

(*The Ecology of the Greater Yellowstone Grizzly Bear*) has been a physical scientist with Department of Interior agencies including the Bureau of Land Management and the National Biological Survey for the past 10 years. He is currently with the Biological Resources Division of the U.S. Geological Survey at the Northern Rocky Mountain Science Center in Bozeman, Montana. For the last five years, he has been working with the Inter-Agency Grizzly Bear Study team on a research project focusing on the effects of environmental variability on grizzly bear habitat selection.

Melissa Pangrazz

(*Autumn Day Hiking in Yellowstone*) is an experienced naturalist with a degree in wildlife science from Purdue University. She has studied coyotes in Yellowstone, red wolves in the Great Smokies and white-tailed deer in Shenandoah. For the past 12 years she has worked as an environmental educator for various nature centers and community-based organizations. She has also worked as a program supervisor and field instructor with the National Outdoor Leadership School since 1996.

Richard Parks

(*Fly-Fishing—Less Experienced; Fly-Fishing in the Fall*) is the manager of Parks' Fly Shop, a family business that has been in Montana for over 30 years. He is highly respected for his fly-tying, teaching, and guiding. He is intimately familiar with Yellowstone's waters and recently authored *Fishing Yellowstone National Park*. He is also deeply involved in regional resource issues.

Debra A. Patla, M.S.

(*Amphibians & Reptiles of the Greater Yellowstone Ecosystem*) is a conservation biologist living in Teton County, Idaho. She is a research associate of the Idaho State University Herpetology Laboratory and coordinates the Greater Yellowstone Ecosystem Amphibian Inventorying Monitoring Program. For the past 8 summers, she has conducted amphibian research and surveys in Yellowstone and adjacent areas. She was drawn to amphibian studies by her love of wetlands and commitment to conservation.

Charles Peterson, Ph.D.

(*Amphibians & Reptiles of the Greater Yellowstone Ecosystem*) is a professor in the Department of Biological Sciences at Idaho State University and curator of Herpetology at the Idaho Museum of Natural History. He has been studying the amphibians and reptiles of the Greater Yellowstone Ecosystem since 1989.

Wayne Phillips

(*Wild Edible Plants & Medicinal Herbs*) is a former Forest Service ecologist who now devotes all of his time to teaching and writing about the flora of the Central and Northern Rocky Mountains. He has taught botany and wildflower classes at the Yellowstone Association Institute (since 1982), the University of Montana, Montana State University-Northern, and the College of Great Falls. He is author of *Central Rocky Mountain Wildflowers* and *Northern Rocky Mountain Wildflowers*. He also serves as past president of the Montana Native Plant Society.

Harold Picton, Ph.D.

(*Plant Eaters of Yellowstone; The Bison of Yellowstone*) is emeritus professor of wildlife at Montana State University. He is currently involved in herbivore and carnivore studies as well as the history of wildlife management. He and more than 50 previous graduate students have published over 100 articles in both the scientific and popular press. Many of these deal with the Yellowstone area.

James Pritchard, Ph.D.

(*History of Wildlife Conservation in Yellowstone*) holds a Ph.D. in environmental history from the University of Kansas. James has taught courses in environmental studies and literature, natural resource conservation, and the history of wildlife conservation. He is the author of *Preserving Yellowstone's Natural Conditions: Science and the Perception of Nature*, and co-author of *A Green and Permanent Land: Ecology and Agriculture in the Twentieth Century*. James is currently an adjunct professor with the Department of Landscape Architecture and the Department of Animal Ecology at Iowa State University.

Nancy Procter, M.S.

(*Day Hiking the Wild Yellowstone; The Truman Everts Story*) worked as a National Park Service ranger-interpreter for six years, and is currently a Yellowstone Institute naturalist/guide for the Trails through Yellowstone and Wonderland programs. Before joining the Park Service, she directed two outreach programs for rural Montanans through the Montana State University Extension Service. Nancy is a Wilderness First Responder and certified Leave No Trace instructor. When not immersed in Yellowstone, Nancy renovates old homes.

Leslie J. Quinn, M.Ed.

(*Old Times at Old Faithful; Ghost Hotels of Yellowstone; History of Northern Yellowstone*) is information specialist and interpretive trainer for AmFac Parks & Resorts in Yellowstone. A park guide for 20 years, he trains park bus tour guides, boat guides, and wranglers, is the editor of the (privately circulated) *Commentary Handbook* and *Commentary Newsletter*, and is an occasional contributor to *Yellowstone Science*. His special interests include Yellowstone Park village history and the maritime history of Yellowstone Lake.

Andrea Rich

(*Explore the Power of Woodblock Printing*) has been an exhibiting artist for 25 years. She enjoys an international reputation for her woodcut prints and has often been selected to exhibit these prints in both solo and group exhibitions including juried exhibits such as the Leigh Yawkey Woodson Art Museum's annual Birds in Art exhibition. Her work has been included in numerous museum, university and private collections. Andrea is a member of the Society of Animal Artists in both New York and London as well as the Artists for Nature Foundation in the Netherlands.

William J. Ripple, Ph.D.

(*The Quaking Aspen of Yellowstone*) is a professor of forestry at Oregon State University in Corvallis, Oregon. He has conducted extensive research on current and historical aspen ecology and management in the Greater Yellowstone Ecosystem. He is currently investigating the cascading effects of the Park's wolf reintroduction on elk distribution and behavior and resulting aspen growth.

Holmes Rolston, III, Ph.D.

(*Environmental Ethics in Yellowstone*) is University Distinguished Professor of Philosophy at Colorado State University. In addition to being the author of *Conserving Natural Value*, used in his Institute course, he is also the author of *Environmental Ethics and Philosophy Gone Wild*. He is the associate editor of the journal *Environmental Ethics*. He teaches environmental ethics at both undergraduate and graduate levels at Colorado State University. He is featured in *Fifty Key Thinkers on the Environment*.

Jay Rotella, Ph.D.

(*The Ecology of Yellowstone Birds*) is an associate professor in the Ecology Department at Montana State University. He has been studying North American birds since 1982 and working on birds in the Greater Yellowstone Ecosystem since 1992.

Toni K. Ruth, Ph.D. candidate

(*Cougars—Ghosts of the Rockies*) is an associate conservation scientist with the Wildlife Conservation Society and the Hornocker Wildlife Institute. As leader of the Yellowstone cougar project, she is investigating the effects of wolf reintroduction on the cougar population. She has over 14 years of field experience working with large carnivores (primarily cougars) in a variety of habitats including Florida, Texas, New Mexico, and Montana.

Vincent L. Santucci

(*Fossils of Yellowstone*) is a National Park Service paleontologist specializing in fossil resource management, protection, and research. During his career he has conducted paleontological surveys at Arches, Badlands, Big Bend, Grand Canyon, Grand Teton, Petrified Forest, Yellowstone, Zion, and National Parks in Alaska. Vince completed his graduate education at the University of Pittsburgh and was a member of the faculty at Slippery Rock University.

Edward Schauster, M.S.

(*Autumn Day Hiking in Yellowstone*) resides in Driggs, Idaho and makes a living as a consulting wildlife ecologist and a field instructor with the National Outdoor Leadership School. He has a background in zoology and a graduate degree in wildlife biology. He has worked on numerous wildlife projects including watching coyotes in the Lamar Valley and studying swift foxes and coyotes on the shortgrass prairies of Colorado.

Christine Smith

(*Wolves of the World*) is a high school wildlife and biology teacher from Bozeman, Montana. She has lived or worked in Yellowstone National Park since 1994 and has traveled widely across the park in both summer and winter. She teaches both a wolf and beaver unit at Bozeman High and has worked with the Yellowstone wolf project since 1999.

Douglas Smith, Ph.D.

(*Wolves of the World*) has studied wolves since 1979 and now serves as the leader of the Yellowstone wolf project. He cooperates with wolf managers around the world and has published widely on the subject in popular magazines, books, and scientific journals. He is the co-author of *The Wolves of Yellowstone* and appears in a new National Geographic video entitled *Return of the Wolf*. His Ph.D. dissertation was based on an 11-year study of beaver in northern Minnesota, one of the longest running studies of beavers to date. He has also published widely on beavers.

Peg Steunenbergh

(*Birds, Bees, & Butterflies*) is an artist whose work has appeared in a number of publications, the Nature Company's product line, and her own line of educational products. Peg's illustrations have been displayed in juried exhibitions at the Smithsonian Museum of Natural History, St. Louis Botanical Garden, the New York State Museum, and the Oakland Museum of California. She has received a number of awards from the San Francisco Society of Illustrators for her work in the field of scientific illustration.

Don Streubel, D.A.

(*Mammals Great & Small*) holds a doctor of arts degree in biology and was a professor of biology for 25 years at Idaho State University. He received the distinguished teacher award in 1997 at ISU, was actively involved in the National Association of Biology Teachers, and conducted research on cougars, ground squirrels, and science education. He is the author of *Small Mammals of the Yellowstone Ecosystem* and was director of the Yellowstone Association Institute from 1989-1991. Don is now retired and currently serves on the Yellowstone Association board of directors.

Rosemary Sucec, M.A.

(*Native Yellowstone*) is cultural anthropologist for Yellowstone National Park. She's worked eight years with the National Park Service, most of it at the Regional Office in Denver. There she routinely helped parks consult with traditionally associated groups, particularly American Indians. At Yellowstone, Rosemary communicates with the park's 24 affiliated tribes, many of which have made official visits to the park.

Mike and Erin Thompson

(*Horsepacking courses*) own and operate Wilderness Pack Trips, Inc. which is based in Livingston, Montana. Mike is a guide, outfitter, and rancher, and holds degrees in animal science and agricultural education. Erin has a background in biology, horse training, and backcountry cooking. Together, they provide their guests with opportunities to interact with their environment and experience true wilderness travel.

Polly C. Thornton, M.S.

(*Cougars—Ghosts of the Rockies*) is an associate project scientist with the Wildlife Conservation Society and Hornocker Wildlife Institute. She has been with the Yellowstone cougar project for two years and has worked on various projects and species in the Northern Rockies for the past ten years.

Rhea Topping

(*Fly-Fishing courses*) runs Mayfly Adventures Fly Fishing Schools and leads fly-fishing courses within the U.S. and around the world. As the second woman to be certified by the Federation of Fly Fishers as a master casting instructor worldwide, she has taught in The Mel Krieger International Schools in Argentina, Spain, and the U.S., as well as being the only woman instructor at the Wulff School in New York state for the past six years. Named Woman of the Year in 1999 by the Federation, she has recently co-produced a non-profit children's video for Argentina, and is in the final stages of completing the first book to address fly-fishing etiquette, appropriately named *Rod Rage*.

Nathan Varley, M.S.

(*Wolves—Reality & Myth; Introduction to Wolf Watching; Autumn Wolf Watching; Black Canyon Wildlife Backpacking; Hoodoo Basin Backpacking Expedition*) is a naturalist, writer, and guide specializing in Yellowstone ecology. He grew up in the park and has lived most of his life in the Yellowstone area. He has studied many wildlife species including gray wolves, mountain goats, grizzly bears, river otters, coyotes, moose, and pine marten. For the past 10 years he has been active with various wildlife projects including field courses, photography, film production, and scientific research.

David M. Ward, Ph.D.

(*Yellowstone's Charismatic Microorganisms*) is a professor of land resources and environmental sciences at Montana State University. He was a graduate student of Thomas Brock, who studied Yellowstone's extreme environment microorganisms in the 1960s and 1970s. Since 1977, Dr. Ward has researched Yellowstone microbial communities, using them as models for fundamental studies of microbial community ecology and microbial evolution. At MSU he teaches microbial diversity, ecology, and evolution.

Tom Watson, M.A.

(*Day Hiking in Wonderland; Hiking Through Time—Day Hikes into the Geological Past*) has spent 22 summers studying geology and ecology in the Greater Yellowstone ecosystem, as a Yellowstone Association Institute instructor, as presenter for the National Wildlife Federation Summit programs, and as a guide for Off the Beaten Path excursions. During the school year he teaches life sciences and geology.

Sandra Weber

(*Finding the Picture Within a Picture*) is a writer and photographer whose feature articles and photos have appeared in leading newspapers such as the *New York Times* and *Washington Post*, and in magazines such as *Yankee* and *Coast to Coast*. She began studying photography at the Yellowstone Association Institute and has since taught photography at the Chautauqua Institution, Chautauqua, New York. Her book for point-and-shooters, *Great Pictures Are A Snap!* was published by Amphoto in 1996.

Jennifer Whipple, M.A.

(*Plants of Yellowstone*) has lived in Yellowstone for over 20 years and is currently the botanist for Yellowstone National Park. While pursuing a master's degree, she taught both plant taxonomy and grass identification labs at Humboldt State University. She is former president of the Wyoming Native Plant Society and co-author of *Wyoming Rare Plant Field Guide*.

Lee Whittlesey, J.D.

(*History of Yellowstone Photographers; History of Yellowstone Wildlife, 1806-1883; Horsepacking: Poacher's Cabin*) is archivist and acting historian for Yellowstone National Park. He spent 15 years writing *Wonderland Nomenclature: A History of the Place Names of Yellowstone National Park*, and its sister version, *Yellowstone Place Names*. Whittlesey is also the author of *Death in Yellowstone: Accidents and Foolhardiness in the World's First National Park; Everts: Lost in Yellowstone; A Yellowstone Album: A Photographic Celebration of the First National Park*; and most recently, *A Guide to Yellowstone Waterfalls and Their Discovery*. He is widely published in the early history of interpretation and transportation in the park, has a law degree (J.D.) from the University of Oklahoma, and an honorary Doctor of Science and Humane Letters from Idaho State University.

Wilderness Medicine Institute, an institute of the National Outdoor Leadership School (*Wilderness First Aid*) 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.

Louisa Willcox, M.S.

(*Greater Yellowstone: Beyond Borders*) is project coordinator for the Sierra Club Grizzly Bear Ecosystems Project, a coalition of conservation organizations working to restore the grizzly bear in the lower forty-eight states and adjacent ecosystems in Canada. For nearly 20 years, she has been working to protect and restore the wildlife and wildlands of the Northern Rockies. She also serves on the boards of the Yellowstone to Yukon Biodiversity Initiative and The Wildlands Project. From 1985-1995, Louisa served as program director for the Greater Yellowstone Coalition.

Mike Yochim, M.S.

(*The National Park Idea: Then & Now*) is a Ph.D. student in geography at the University of Wisconsin-Madison. He has worked as a guide and park ranger-naturalist in Yellowstone. He has published papers on Yellowstone's winter use history and policy, elk management, and conservation history. He is currently researching the influence of conservationists on Yellowstone National Park policy over time.

Paco Young

(*Plein Air Painting in Yellowstone*) is the Montana artist who was recently selected to paint *Old Faithful*, a work which hangs permanently in the historic Old Faithful Inn. Paco is a full time artist working in the tradition of plein air painting in order to depict national landscapes and sporting art. His work is sold in galleries across the country and is often featured in group exhibitions. He has been named Artist of the Year for The Rocky Mountain Elk Foundation, Quail Unlimited, and The Ruffed Grouse Association. Paco has often been selected by the Leigh Yawkey Woodson Art Museum for their Birds in Art and Wildlife in Art exhibits. He has a passion for the North American landscape and is often found painting and doing field work in Yellowstone National Park.



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.

The Yellowstone Association Institute is one of many outstanding educational programs and projects sponsored by the non-profit Yellowstone Association for Natural Science, History & Education, Inc., the National Park Service's primary partner for education in Yellowstone National Park.

Each year, the Yellowstone Association provides substantial funding for in-park wayside and museum exhibits, interpretive programs, scientific conferences, research, and educational publications. All the activities of the Yellowstone Association are dedicated to developing public appreciation for and awareness of Yellowstone's unique natural and cultural treasures. This appreciation of Yellowstone's natural areas is critical to the preservation of Yellowstone and wilderness areas throughout the world.

Would you like to join us? Thousands of people are now part of the Yellowstone Association's efforts to educate others about the value of Yellowstone in an increasingly crowded world. In addition to helping Yellowstone, members receive an informative newsletter throughout the year, and discounts on Institute classes and Association products. To become a member, fill out the Registration/Membership form on pg 49.

The Benefits of Membership in The Yellowstone Association

Are you getting the benefits of membership in the Yellowstone Association?

As a member, you will be entitled to the following benefits:

- A family membership (covering donor, spouse, and children through age 20)
- Discounts on Yellowstone Association Institute field courses and products
- The opportunity to register for Yellowstone Association Institute courses one week before non-members
- A 15% discount on items sold by the Yellowstone Association (in visitor centers or by mail)
- Informative quarterly newsletters and the National Park Service's quarterly Yellowstone newspaper
- Invitations to special members' activities
- Credit for a **tax-deductible** gift (to the extent allowable by law)
- **Discounts** at many association bookstores in visitor centers at other national parks

You may be assured that your membership gift will be gratefully received, immediately acknowledged, and efficiently used.

Please duplicate this form for multiple registration if necessary.

NAME		
ADDRESS		
CITY	STATE	ZIP
DAYTIME TELEPHONE		EVENING TELEPHONE
FAX #	EMAIL ADDRESS	

Where can you be reached one month prior to the course?

ADDRESS	TELEPHONE
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How did you find out about the Yellowstone Association Institute?

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- ☐ I have signed the Assumption of Risk/Release of Liability form on the back of this form.
- ☐ I have read the cancellation policy on page 6, and understand to receive a refund, I must cancel at least 60 days before a course or pay a \$35 course processing fee.
- ☐ Check here if you are a current member of the Yellowstone Association or are joining now (see pg 48).

Course #	Title	Dates	Tuition

Lodging:

- ☐ I want to stay at the Institute cabins at Lamar the following nights at \$20/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 \$20 per person per night

Membership (optional)

Fill out membership information (see right)

Total Enclosed \$

Payment by: ☐ Check ☐ MasterCard ☐ Visa ☐ Discover

CREDIT CARD #	EXP. DATE
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SIGNATURE

YAI-2002

☐ Check here if you're new to the Institute.

Please list names and ages of children for family classes:

Membership Information

- ☐ Renewing
- ☐ Joining for the first time

Memberships are family memberships, including your spouse and children through age 20. Please identify those for whom membership cards are desired:

Annual Dues:

- ☐ Associate \$ 30.
- ☐ Contributing \$ 50.
- ☐ Sustaining \$ 100.
- ☐ Patron \$ 250.
- ☐ Sponsor \$ 500.
- ☐ Benefactor \$1,000.

Mail to:

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

Fax to: 307-344-2485

Telephone: 307-344-2294



I understand that I will be participating in certain courses or activities (together, "courses") provided by the Yellowstone Association, a Wyoming not-for-profit corporation ("YA"), and its agents, associates and independent contractors. The course in which I will be participating has been described to me in YA's Catalog and Participant Information documents, and members of the YA staff have been available to answer my questions.

I understand that the activities of YA involve risks and dangers, inherent and otherwise. Inherent risks and dangers may include, but not exclusively, those ordinarily associated with moderate to vigorous physical activity, in high altitude mountainous or wilderness terrain. These activities may occur in remote places, and communication and evacuation may be difficult and medical care may be significantly delayed. Travel may occur in thermal areas, across streams, rivers and lakes, and over rock, snow and ice. Travel may be by horse, llama, kayak, automobile, van, bus, air or other conveyance, involving risks associated with such travel. Travel and camping will be subject to the unpredictable forces of nature, including extreme weather, falling rock, avalanches, lightning, wildfires and earthquakes, resulting in a variety of injuries or illnesses, including hypothermia, frostbite, high altitude illnesses, heat stroke, dehydration and other conditions. Participants may be exposed to wild animals who may cause serious harm and whose behavior cannot be predicted. Llamas and horses may bite, kick, run out of control or rear without warning. Equipment may fail or malfunction despite reasonable maintenance and use. Errors of judgment may occur, by instructors or co-participants. These risks, hazards and dangers may result in participants being injured by objects, animals or people; and suffering sprains, fractures, cold water immersion, drowning and other trauma, including sickness, mental distress, disability or even death.

UNDERSTANDING THE ACTIVITIES AND THEIR RISKS AND DANGERS, I NEVERTHELESS, IN CONSIDERATION OF THE RIGHT TO PARTICIPATE IN A YA ACTIVITY, HEREBY ACKNOWLEDGE AND VOLUNTARILY ASSUME THE INHERENT RISKS OF THE ACTIVITY, INCLUDING, BUT NOT EXCLUSIVELY, THOSE DESCRIBED ABOVE.

The National Park Service and some other federal land management agencies including the Gallatin, Shoshone and Targhee National Forests do not allow certain types of service providers to be released from liability for injuries to visitors occurring on lands under their jurisdiction. Such service providers are allowed to obtain only an Assumption of Risks from their clients. Some YA activities may occur off such lands or otherwise not be subject to those limitations. For such activities YA seeks the following additional protection. Please read carefully and sign below.

If I am an adult participant, or the parent or guardian of a participating minor child, I agree as follows:

(a) I assume all risks, known or unknown, inherent or otherwise, of the YA activity in which I (or the child) will be participating.

(b) I hereby release and hold YA, its directors, trustees, staff, agents, associates and independent contractors ("released parties") harmless from any and all liability, actions, causes of action, claims and demands, including for negligence, which I may have, arising out of or in any way related to my participation (or the participation of a minor child of whom I am parent or guardian) in a course of YA, including transportation to and from a course. I HEREBY INDEMNIFY YA AND ALL RELEASED PARTIES FROM ANY CLAIM BROUGHT BY ANY MEMBER OF MY FAMILY ON ACCOUNT OF ANY INJURY OR LOSS WHICH I (OR THE MINOR CHILD) MAY SUFFER ARISING IN ANY WAY OUT OF THE COURSE. I FURTHER INDEMNIFY YA AND ALL RELEASED PARTIES FROM A CLAIM WHICH MIGHT BE BROUGHT BY A CO-PARTICIPANT ARISING IN ANY WAY FROM MY CONDUCT (OR THE CONDUCT OF THE MINOR CHILD). My intent in signing below is that this document shall serve as a release, indemnity and assumption of risk which is binding also upon all my heirs, personal representatives, executors, administrators and all members of my family, including my spouse.

The following provisions apply to all YA activities, wherever they occur.

(a) I am (or the participating minor child of whom I am parent or guardian) is in good general health and not under a doctor's care for any condition which might endanger my (or the child's) health or safety or that of any other participant. In case of an injury or illness, I agree to bear the cost of any evacuation and medical care, including, by way of example, by ambulance, helicopter, rescue team or other professional medical care given, for me (or any minor of whom I am parent or guardian). I understand that I must provide health and accident insurance for myself (or the minor child);

(b) I hereby authorize YA to use photographs of its courses, which might include me (or the minor child) in future publicity;

(c) I agree that in the event I should have any claim against YA or any released party such claim or suit shall be brought in the State of Wyoming, and Wyoming law, but not that which might apply the laws of another state, shall apply;

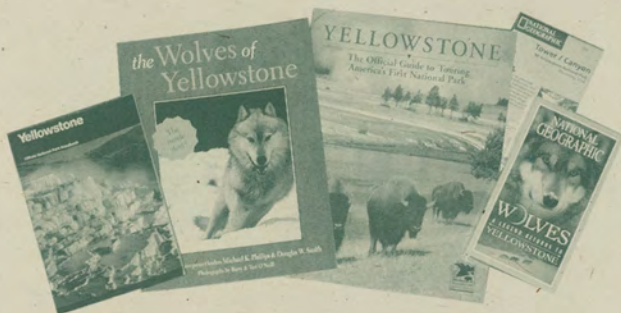
(d) If any part of this agreement is deemed unenforceable by a court of law, the remaining portions nevertheless will be in full force and effect.

All participants, including minors, must sign. A parent or guardian of a participant who is a minor must also sign.

Adult	Minor	Age
Date	Date	

The Park Store

The Yellowstone Association's Park Store features more than 600 books, maps and videos to help you plan your visit, along with a wide selection of shirts, hats, and other logo items to remind you of your time in Yellowstone.



Books, Maps and Videos

Purchase a guidebook to help plan your trip, or a text to enhance your knowledge of the park's natural and cultural history.

We have the world's largest in-stock selection of Yellowstone information, including many books written by Institute instructors.



Institute Logo Items

Let everyone know you support the Institute! We have cotton shirts, fleece jackets, hats and outdoor gear in a variety of colors and styles. All items are embroidered or screen-printed with the Institute logo.



To purchase the above items, please visit the Park Store at www.YellowstoneAssociation.org, call the mail order staff toll free at 877-967-0090, or stop by the Institute Store at our Lamar Buffalo Ranch field campus.

Members of the Yellowstone Association receive a 15% discount.

Proceeds support the Institute program at Yellowstone.



Yellowstone Association Institute
P.O. Box 117
Yellowstone National Park
Wyoming 82190

www.YellowstoneAssociation.org

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