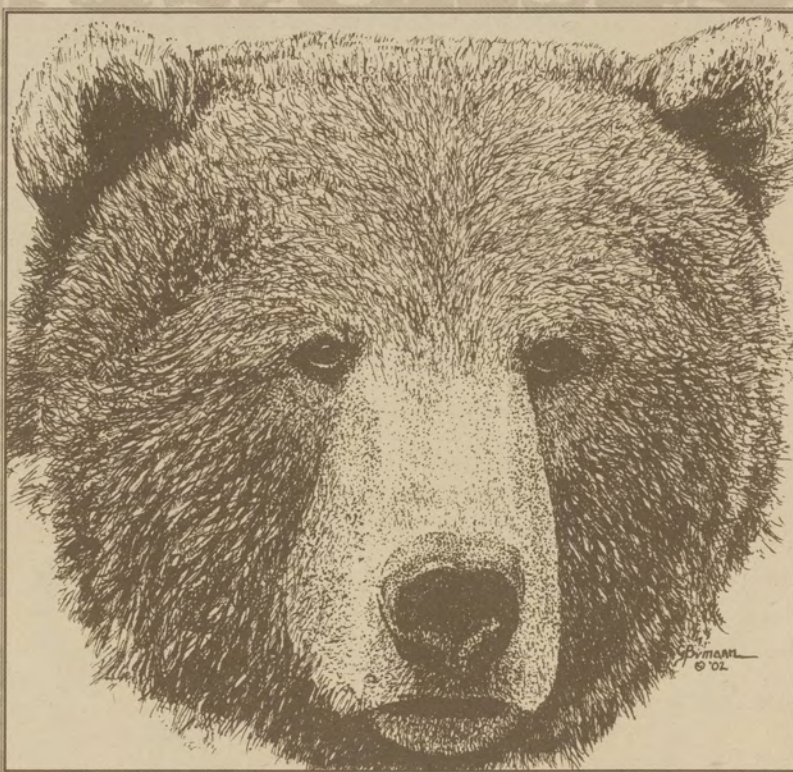


Yellowstone Association
Institute



Summer 2003

Phillips / Reese
YI Collection

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To enhance your Yellowstone visit, the Institute offers five types of educational programs:

Lodging and Learning Programs are learning vacations with just the right mix of education and recreation. These programs are based at historic park hotels and taught by experienced naturalist/guides who are intimately familiar with Yellowstone.

Wildlife Ed-Ventures are driving tours that help you see and understand Yellowstone's spectacular wildlife. Institute wildlife biologists lead daily tours from Mammoth Hot Springs.

Custom Courses are educational programs designed to meet the particular needs of your group. Day and overnight programs are offered throughout the Yellowstone area and taught by a variety of experienced Institute instructors.

Field Seminars provide a closer look at specific subjects, from nature writing to wolf biology. These courses are based in locations throughout the park and taught by college professors, field biologists, and other experts.

Backcountry Courses are genuine wilderness experiences designed to be both light on the land and educational. Backpacking and horsepacking courses are based in park's two million acre backcountry and taught by professional outdoor leaders and guest experts.

Please join us for a uniquely rewarding Yellowstone experience!

The Mission of the Yellowstone Association:

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

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Lodging and Learning Programs

Greater Yellowstone Wildlife Adventure

Offered each week (Saturday to Friday) from May 10 to May 30

Trails Through Yellowstone

Offered each week (Sunday to Thursday) from May 25 through September 25

Yellowstone for Families

Offered twice a week at Mammoth Hot Springs and twice a week at Grant Village (Sunday to Thursday and Thursday to Monday) from June 1 through September 2, 2003 except Grant programs beginning July 6 and 10

Roosevelt Rendezvous

Five sessions: September. 5-9
 September 9-13
 September 13-17
 September 17-21
 September 21-25

Wildlife Ed-Ventures

Wildlife Ed-Ventures

Offered each week (Friday to Sunday) from May 9 to September 1 (except weekends of July 11, July 25, and August 15)

Personal Ed-Ventures

Available year-round

Custom Courses

Available year-round

For more information on the programs in this column see pgs 5-7.

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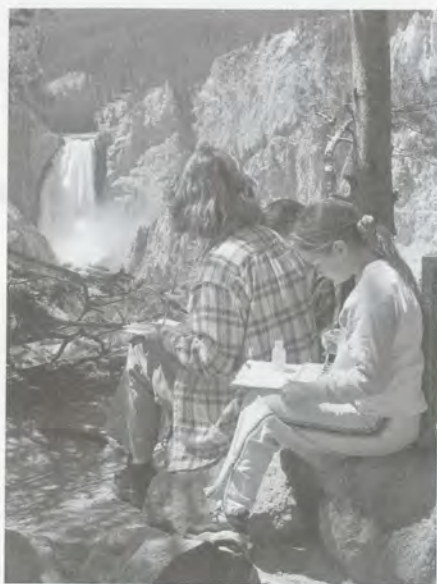
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Dea Vogel, pgs 20, 48

Yellowstone Association Institute, pgs 5, 30, 34, 37

Design: A. Pollard, Livingston, MT

Lodging and Learning Programs 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.

Spring 2003 Program:

Greater Yellowstone Wildlife Adventure

Offered in partnership with the Draper Museum of Natural History of the Buffalo Bill Historical Center

Discover the abundant wildlife in and around Yellowstone National Park during this week-long wildlife adventure. Accompanied by wildlife experts from the Institute and the Draper Museum of Natural History, we will learn about and attempt to observe elk, bison, wolves, grizzly bears, and a host of other species. Wildlife watching trips will take place inside the park in the Old Faithful, Mammoth Hot Springs, and Lamar Valley areas, and beyond park boundaries in the spectacular Clark's Fork and North Fork valleys. When not looking for wildlife, we will enjoy a visit to the Buffalo Bill Historical Center, accommodations at Old Faithful and Mammoth Hot Springs, an overnight at an historic Wyoming guest ranch, and explorations of Yellowstone's geyser basins.

Dates:

Offered each week (Saturday to Friday) from May 10 to May 30

Maximum Group Size: 12

Minimum Age: 12

Activity Level: Easy (1 to 3 mile walks and hikes)

Package Price Includes:

- Expert instruction by two naturalist/guides
- Six nights lodging with private bath (one night Old Faithful Snow Lodge, two nights Mammoth Hot Springs, one night UXU Guest Ranch, two nights Cody)
- Five breakfasts, five box lunches, and two dinners per person
- In-park van transportation
- Buffalo Bill Historical Center membership and entrance fee
- Optional evening programs

Rates:

\$985 Double Occupancy
(Member's rate \$975)

\$1,271 Single Occupancy
(Member's rate \$1,261)

Summer 2003 Programs:

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 is dedicated to searching for elk, bison, grizzly bears, wolves, and other species. This is an active program and participants must be prepared for daily hiking.

Dates:

Offered each week (Sunday to Thursday) from May 25 through September 25

Maximum Group Size: 12

Minimum Age: 12

Activity Level: Moderately strenuous (4 to 9 mile hikes, some with considerable elevation gains)

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:

\$545 Double occupancy
(Member's rate \$535)

\$729 Single occupancy
(Member's rate \$719)

Special "shoulder season" rates are available. Please ask the Yellowstone National Park Lodges staff for details.

For reservations, please contact Yellowstone National Park Lodges at (307) 344-5566. For more information on registration, see pg 45.

Yellowstone for Families

Experience the magic of Yellowstone with this unique family learning adventure. Guided by an Institute naturalist, families explore canyons, waterfalls, and geyser basins and enjoy activities including animal tracking, wildlife watching, photography, painting, and hiking. During the program, parents help their children complete the requirements of the National Park Service's Junior Ranger program. More active and less active versions of the program are available each week.

Dates:

Offered twice a week at Mammoth Hot Springs and twice a week at Grant Village (Sunday to Thursday and Thursday to Monday) from June 1 through September 2, 2003 except Grant programs beginning July 6 and 10

Maximum Group Size: 13

Audience: Families with children ages 8-12

Activity Level:

The two weekly Grant sessions and the Mammoth session beginning Sunday are less active but still include daily 1 to 3 mile hikes and walks. The Mammoth session beginning Thursday is more active with daily 3 to 5 mile hikes and walks.

Package Includes:

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

Rates:

\$545 Double occupancy
(Member's rate \$535)

\$729 Single occupancy
(Member's rate \$719)

\$333 Each Child
(Member's rate \$323)



Fall 2003 Program:

Roosevelt Rendezvous

Join us to discover the ephemeral beauty and distinctive natural history of autumn in Yellowstone, from the arresting bugle of bull elk to the fall regalia of aspen, willow, and cottonwood. Roosevelt Rendezvous is a four-day educational experience featuring a daily selection of field trips for a variety of interests and abilities, evening educational programs by park experts, and exclusive use of historic Roosevelt Lodge. During the day, you can enjoy a vigorous guided hike, search for wolves with a wolf biologist, enjoy a series of easy geology strolls with a Yellowstone geologist, or do your own thing. At night, we convene in the main lodge for buffet-style dinners and entertaining evening programs. Comfortable accommodations are in rustic individual guest cabins. Celebrate this special season with us at the 2003 Roosevelt Rendezvous!

Dates:

Five sessions: September 5-9
September 9-13
September 13-17
September 17-21
September 21-25

Maximum Group Size: 52

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

Minimum Age: 12

Activity Level: Each day's schedule of field trips will include activities for a variety of fitness levels.

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:

\$490 Double occupancy
(Member's rate \$480)

\$594 Single occupancy
(Member's rate \$584)

*For reservations, please contact
Yellowstone National Park
Lodges at (307) 344-5566.
For more information on
registration, see pg 45.*

2003 Wildlife Ed-Ventures

Join an Institute wildlife biologist to discover the diverse and abundant wildlife of Yellowstone's Northern Range. Home to elk, bison, wolves, grizzly bears, and a host of other large mammals, the Northern Range is the best place in the lower 48 states to view wildlife in their natural setting. But even in Yellowstone elusive species like wolves and bears remain hard to find and even harder to truly understand. Your Institute wildlife biologist will show you where, when, and how to look and give you a deeper understanding of wildlife behavior, ecology, and conservation. This program begins at sunrise, the best time of the day to see wildlife. Most of the time will be spent along the roadside. There may be short walks (up to a mile round trip) to get to the best wildlife watching viewpoints.

Wildlife Ed-Ventures depart from Mammoth Hot Springs at sunrise and return at lunchtime.

The program cost includes instruction, use of high-powered spotting scopes, and in-park transportation. Box breakfast is also included with reservations made up to 4:00 pm the day prior.

Dates:

Offered each week (Friday to Sunday) from May 9 to September 1 (except week-ends of July 11, July 25, and August 15)

Length: 6-7 hours

Maximum Group Size: 10

Minimum Age: 8

Activity Level: Easy

Rates:

\$55 per person
(Member's rate: \$45)

Personal Ed-Ventures

Personal Ed-Ventures are tailored 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 customized to the specific interests of your group, and can include hiking, wildlife watching, road-based tours, or a focus on a particular species or topic.

Personal Ed-Ventures 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.

Dates:

Available year-round

Length: Approximately 8 hours

Rates:

\$240 for up to four people
(Member's rate \$230)
\$30 for each additional person

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



Custom Courses

The Institute offers educational programs designed to meet the particular needs of your group. Day and overnight programs for groups of 10 or more are offered throughout the Yellowstone area. Experienced Institute instructors work with you to incorporate your curriculum needs into focused studies of wildlife ecology, natural history, and geology.

For more information on Custom Course availability and rates, contact the Assistant Program Manager at (307) 344-2591.

2003 Field Seminars

Waterfowl Identification & Ecology

May 2-4 (#501)

Limit: 8

Location: Mammoth Hot Springs

Credit Pending

Instructor: Terry McEneaney

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

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 nuptial 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.

Spring Wildlife on the Northern Range

May 3-5 (#502)

Limit: 12

May 6-8 (#503)

Limit: 12

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.

Wildlife Watching in Grizzly Country

May 7-9 (#504)

Limit: 12

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.

Living with Wolves in Wyoming

May 9-12 (#505)

Limit: 12

Location: Cody, Wyoming

Credit Pending

Instructor: Meredith Taylor

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

NEW

Join us as we explore the rewards and challenges of living with wolves in Wyoming. Since the reintroduction of wolves to Yellowstone in 1995, the wolf population has progressively expanded to areas of Wyoming outside park boundaries. Some Wyoming residents enjoy sharing the landscape with wild wolves while others object to impacts on ranchers, hunters, and pet owners. Delisting of wolves under the Endangered Species Act entails the transfer of wolf management from federal to state authority. How will the state of Wyoming and its residents manage this complex challenge? This course explores the costs, benefits, pitfalls, and opportunities including impacts on elk populations, potential economic gains, conflicts with ranchers, innovative management strategies, and the intangible rewards some experience of simply knowing that wolves are out there. In Cody, guest speakers will provide a variety of perspectives that we will discuss together. In the field, we will visit the places where people are living with wolves and see how managers and residents are working toward successful co-existence. Though we are unlikely to see wolves, we will visit their habitat and attempt to observe and interpret their sign.

We will meet at the Irma Hotel in Cody at 7:00 pm on the first day and end late afternoon on the last day. Rooms have been set aside at the Irma—contact the registrar for reservation information.



Wildlife Theater: Interpreting the Ecology of Yellowstone

May 13-15 (#506)

Limit: 12

Location: Mammoth Hot Springs

Credit Pending

Instructor: Bruce Thompson, M.S.T.

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

NEW

Transforming natural history into "natural theater," this course examines how animals play out their biotic roles in ever changing climatic and geologic sets. In effect, we will take a peek backstage each day of this course by exploring the hidden ecological forces that shape the wildlife performances playing out in Yellowstone every day. Participants will enjoy a process of observing, then discussing, then looking deeper at these performances in a variety of scenes that variously demonstrate energy flow, symbiosis, nutrient cycling, succession, and the foundations of biological diversity. Informed by science and animated by lively interpretation, this course will benefit both the beginning and more advanced naturalist.

We will meet in the Mammoth Hot Springs area at 9:00 am on the first day and end at 4:30 pm on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information.

Wolf Nations: Dynamics of a Recovered Population

May 16-18 (#507)

Limit: 12

Location: Mammoth Hot Springs

Credit Pending

Instructor: Nathan Varley, Ph.D. candidate

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

NEW

More wolves and wolf packs competing for increasingly scarce territory is creating a whole new set of questions for scientists to examine. How do packs organize themselves across the landscape, how do packs shift and change in size, composition, and location; and what can these complex dynamics teach us about the wolf's role in the Yellowstone ecosystem? We will examine these issues while attempting to observe the behavior of some of the park's newest packs including Swan Lake, Agate Creek, and Geode Creek. Each day will begin early, end late, and will include 1 to 5 mile off-trail hikes to observation points.

We will meet in the Mammoth Hot Springs area at 8:00 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.

Wilderness First Aid

May 17-18 (#508)

Limit: 24

November 1-2 (#1101)

Limit: 24

Location: Lamar Buffalo Ranch

Instructor: Wilderness Medicine Institute Staff

\$140 (Member's fee \$130)

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 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.

Wolf Watching in Yellowstone

May 21-23 (#509)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Norman A. Bishop

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

Yellowstone National Park is 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 their restoration as an experimental population under the Endangered Species Act. Find out what the wolves eat, how they kill their prey, and what effect wolves have on other animals, including livestock outside the park. Practice patience not far from the roadside watching for wolves at dawn and dusk, and discuss them while watching videos and slides in the classroom at midday. Be prepared to walk 2 miles and climb steep slopes.

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.



Conservation of Grizzly Bears in North America

May 21-23 (#510) *Limit: 12*

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Lance Craighead, Ph.D. &

Barrie Gilbert, Ph.D.

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

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 continuing trend toward habitat destruction and potential extinction. What is the real story? What techniques are being used to determine status? What are the greatest threats to population persistence? Where can bear populations survive? 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 affect 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.

The Ecology of Bison, Elk, & Wolves in Central Yellowstone

May 24-25 (#511) *Limit: 12*

Location: West Yellowstone, Montana

Instructor: Robert Garrott, Ph.D.

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

NEW

This course will provide an introduction to the central Yellowstone ecosystem and the ecological processes that influence the wolves, bison, and elk occupying this region of the park. Join a scientist who has been studying these interrelations to explore some of the most pressing scientific and political questions in Yellowstone. Topics that will be covered include the role of climate, wildfires, and geothermal geology on wildlife movements and population dynamics; impacts of snowmobiles on wildlife; bison migrations and brucellosis; and the effects of wolf reintroduction on elk populations. Morning classroom sessions will be followed by field trips along the Madison, Gibbon, and Firehole Rivers to observe wildlife, demonstrate research methodology, and explore the wonderful complexity of the central Yellowstone region and its wildlife. Participants should be able to hike 2 to 3 miles.

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

Wolf Recovery in the Northern Rockies

May 24-26 (#512) *Limit: 12*

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: David Gaillard, M.E.S.

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

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 the predictions come true about their effects on the economy and ecology? What do we do now that the wolf is 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 last day.

Ecology Through the Lens: Celebrating Nature with Photography

May 24-26 (#513) *Limit: 12*

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Bruce Thompson, M.S.T.

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

NEW

Capturing the dynamic essence and beauty of the natural world in a photograph can be as elusive as capturing a person's character in a portrait. The key, in nature photography as with portraiture, is knowledge of the subject. This course aims to improve our photographs of the natural world by exploring the stunning wealth of interrelationships, changes, adaptations, and diversity in nature and celebrating this world photographically through activities in lighting, exposure, depth of field, and composition. You will need a 35mm single-lens reflex camera with adjustable focus and exposure and at least one of the following: A wide angle lens with a focal length between 17 and 28 mm, a close-focusing zoom lens with the approximate range of 35–105 mm, and/or a macro lens with a focal length of between 50 and 105 mm.

A tripod is strongly recommended and longer focal length lenses may be useful but are optional. Other details will be provided following registration.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:30 pm late afternoon on the last day.

Ripple Effect: The Ecology of Wolf Restoration

May 27-29 (#515)

Limit: 12

July 6-8 (#706)

Limit: 12

August 4-6 (#808)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Norman A. Bishop

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

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. Anticipate walks of 2 miles and climbing steep slopes.

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.

Mammal Tracking: Interpreting Tracks, Scat & Other Sign

May 27-30 (#516)

Limit: 12

July 15-18 (#719)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: James Halfpenny, 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.

Mountain Dwellers of the Yellowstone Ecosystem

May 30-June 1 (#517)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

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 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.



Wolves—Reality & Myth

May 30-June 1 (#518)

Limit: 12

June 10-12 (#605)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nathan Varley, Ph.D. candidate
\$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.

The Yellowstone Volcano: A Restless Giant

June 6-8 (#601)

Limit: 12

Location: Lake

Credit Pending

Instructors: Henry Heasler, Ph.D. &

Cheryl Jaworowski, Ph.D.

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

NEW

Few visitors to Yellowstone realize that they are standing on one of the world's largest and most explosive volcanoes. The Yellowstone volcano forms the basis for Yellowstone National Park's many wonders including its geothermal features, earthquakes, Yellowstone Lake, and the high-elevation plateau with its native vegetation. Focusing on the evolution of the Yellowstone volcano, we will learn to identify common volcanic rocks, read geologic maps, interpret Yellowstone's volcanic landscape, and discuss the potential volcanic and geologic hazards.

After an introductory classroom session, we will spend the next two days in the field at Mud Volcano, Mount Washburn, Terrace Springs, the Firehole Canyon, West Thumb, and Old Faithful. Students should be able to hike one mile, be prepared for all kinds of weather, and maintain a field journal.

We will meet in the Lake area at 7:00 pm on the first day and end late afternoon on the last day. Rooms have been set aside at Lake—contact registrar for reservation information.

Mammals Great & Small

June 7-10 (#602)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

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.

Bears: Bones, Signs & Stories

June 7-10 (#603)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

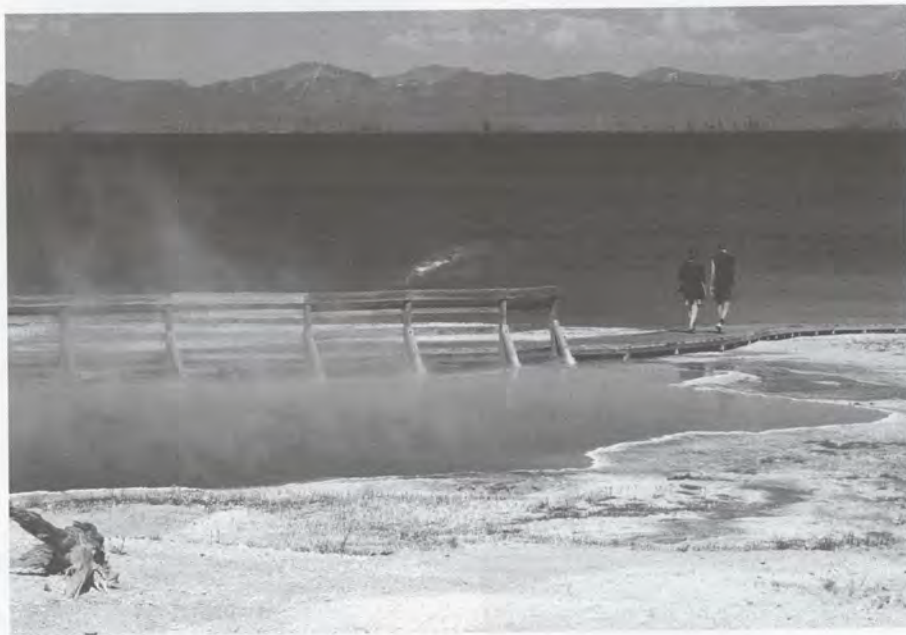
Instructors: James Halfpenny, Ph.D. &

Jim Garry, M.S.

\$270 (Member's fee \$260)

Ursophiles (Greek for "bear lovers") unite! Supplement your knowledge of bears with a unique pair of instructors. In lectures and in the field, carnivore ecologist Dr. Jim Halfpenny will discuss the evolution, ecology, and management of bears while folklorist Jim Garry will explore their rich cultural history. From the evolutionary origins of ancestral bears to interpretation of their sign to compelling renditions of classic bear tales, this course conveys a uniquely broad view of bears throughout the world and throughout time. Half-day lectures will be supplemented by short field trips to study grizzly and black bear ecology. 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.



Wolves—Reality & Myth

June 10-12 (#605)

See description on pg 12.

This Place is for the Birds!

June 11-13 (#606)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Brian Thorpe, M.S.

\$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 explore the wonder of bird migration, song, and courtship. 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 9:00 am on the first day and end late afternoon on the last day.

Grizzly & Black Bear Ecology & Management

June 13 (#607)

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, bears are some of the most interesting and complex mammals in North America. This introductory course explores the behavior and management of the bears with particular emphasis on food habits, habitat use, predation behavior, and bear-human interactions. Beginning in the morning, we will discuss 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 at 6:00 am and end at 2:00 pm.

In Celebration of Birds



June 13-14 (#608)

Limit: 12

Location: Old Faithful

Instructor: Katy Duffly, 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 in front of the Old Faithful Visitor Center at 7:30 pm on the first day and end the next day at 2:30 pm. Rooms have been set aside at Old Faithful—contact registrar for reservation information.

Native Yellowstone

June 13-15 (#609)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Rosemary Sucec, M.A.

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

Yellowstone National Park has a rich Native American past and present that is only beginning to be appreciated. The Bannock, Shoshone, Crow, Nez Perce, and Kiowa are just some of the at least 26 tribes that used the park as a source of game, traditional medicine, and spiritual sustenance. Unfortunately, early park administrators made a concerted effort to remove Native Americans from the park and, in their absence, created a "history" of Native Americans in Yellowstone that spoke little about actual Native experiences and distorted accounts that did exist. Today the park's affiliated tribes are returning to Yellowstone, sharing their knowledge, and fueling nothing less than a revolution in our understanding of the park's native heritage. Join us as we explore the past, present, and future of Native Americans in Yellowstone National Park. Participants should be prepared for short walks and hikes to important cultural sites.



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

Grizzly Bear Ecology & Management

June 13-16 (#610)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

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.



The Mystery of Animal Motion

June 17-18 (#613)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: George B. Bumann, M.S.

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

NEW

Be it the swoop of a falcon, the saunter of a bear, or a bison at full gallop, the movement of animals can divulge secrets about their past, present, and future. Join us in a journey of the senses as we assemble the puzzle of animal movement on Yellowstone's Northern Range. Taking inspiration from the efforts of this country's founding naturalist/artists to depict animals in motion, we will head into the field to observe the dynamic movements of wildlife firsthand and attempt our own depictions through a blend of the written word and sketching (drawing experience helpful but not required). Join us as we explore the anatomy, evolution, biology, and behavior of wild animals on the move.

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

History of Wildlife in Yellowstone

June 17-19 (#614)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Lee Whittlesey, J.D., &

James Pritchard, Ph.D.

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

NEW

A tangled tale of cougars exterminated, bison protected, fish propagated, bears degraded, and wolves restored—the history of wildlife in Yellowstone includes some of the park's finest moments as well as its darkest hours. Using documents from the Yellowstone National Park archives and visits to important historic sites, this course examines that history, from the status of wildlife populations prior to the establishment of the park in 1872, to our evolving perception and management of wild creatures, to the colorful characters who saved the bison, persecuted the mountain lion, and re-introduced the wolf. Join us as we explore the history that has shaped how the world views wildlife, national parks, and nature itself.

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



Predator-Prey Systems

June 19-20 (#616)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Kyrán Kunkel, Ph.D.

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

NEW

The Yin and Yang of the natural world, predator and prey are intimates in a dance of death, shaping each other's population, behavior, and even physiology; but exactly how they affect each other remains a contentious issue among scientists and the public alike. Do predators control prey populations, vice versa, or do they control each other in some complex combination? Beyond the numbers, how do predator and prey affect each other's behavior? These questions are nowhere more controversial than greater Yellowstone where some believe wolves are "decimating" prey populations while others believe they are having little impact. Through lecture, discussion, and field trips to examine carcasses of recently killed prey animals, we will explore these questions and gain a deeper appreciation for the complex relationship between predator and prey.

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

Minding Animals: Emotions, Nature, Ethics, & Heart

June 20-22 (#617)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Marc Bekoff, Ph.D.

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

NEW

Drawing on information concerning the evolution and ecology of animal emotions, this course will help you to gain a richer understanding of animals by paying careful attention to their passionate nature. We'll also discuss how good old Darwinian biology helps us to understand what other animals feel, and how this information can aid us in our attempts to (re)connect with nature from our hearts as well as from our heads.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end late afternoon on the last day. Fee includes \$15 for a copy of the instructor's book, *Minding Animals: Awareness, Emotions, and Heart*.

Exploring Yellowstone by Map & Compass

June 21 (#618)

Limit: 12

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 22 (#620)

Limit: 12

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. Each participant should be able and prepared to hike over two miles at an elevation of over a mile above sea level.

We will meet in the map room of the Mammoth Hotel at 8:30 am for a short orientation and return to the hotel by 5:00 pm.

Wolf Social Behavior

June 22-24 (#621)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Linda Thurston, M.S.

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

Each day, the wolves of Yellowstone enact a complex social drama expressed in a language of body postures, vocalizations, and scent marks. This course will teach you how to translate these communications as they play out in the field and on video. Classroom sessions will focus on the use of ethograms, the "keys" researchers use to identify and interpret wolf social behavior.

We will meet at the Lamar Ranch area at 7:00 pm on the first day and end late afternoon on the last day. Fee includes \$10 for a copy of *Wolf Ethogram*.

Plant Eaters of Yellowstone

June 22-24 (#622)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Harold Picton, Ph.D. &

Terry Enk, Ph.D.

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

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.

Wild Edible Plants & Medicinal Herbs

June 23-25 (#623)

Limit: 12

Location: Squirrel Meadows, Targhee

National Forest, Idaho

Credit Pending

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.

Our headquarters will be 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 at the cabin, or stay in a motel in Ashton, which is less than an hour away. Fee includes \$10 for course materials.

Yellowstone Waterfalls



June 24-27 (#624)

Limit: 12

Location: Flagg Ranch, Old Faithful, Canyon

Credit Pending

Instructor: Earle Layser, M.S.

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

NEW

Few places rival the concentration of major waterfalls that occur in Yellowstone Park. Two hundred ninety waterfalls and cascades have been discovered and named to date and it is their beauty, romance, history, geology, and literature that are the focus of this course. You'll learn how Yellowstone's waterfalls compare to other regions, and how conservation efforts in the 1920's prevented damming and flooding of some of the park's most spectacular falls. In our explorations, we will have potential to view 10 to 18 waterfalls and cascades. Along the way, we'll serendipitously encounter and identify wildflowers and wildlife, and look for undine spirits and water sprites. While this is not a photography course, there will be photo opportunities. Participants should be prepared for 2 to 5 miles of walking each day.

We will meet in the at Flagg Ranch at 7:00 pm the first evening and end about 3:00 pm on the last day. Rooms have been set aside at Flagg Ranch, Old Faithful, and Canyon—contact registrar for reservation information.



The Evolution, Ecology & Future of the Wolf Family

June 25-27 (#626)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: James Halpenny, Ph.D. &

Jim Garry, M.S.

\$210 (Member's fee \$200)

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 Jim Halpenny, carnivore ecologist, and Jim Garry, folklorist to answer these and more questions and explore the rich cultural history of wolves. From the evolutionary origin of ancestral wolves to interpretation of their sign to compelling renditions of classic wolf tales, this course conveys a uniquely broad view of wolves throughout the world and throughout time. Optional sunrise 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.



Writing the Wild

June 25-27 (#627)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Gary Ferguson

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

Steeped in the dramatic sites and sounds of Yellowstone, this workshop will help you master the experience-based, creative, non-fiction essay. A portion of each morning will be spent in the classroom at the Buffalo Ranch, discussing the fundamentals of tone, setting, transition, and the application of dramatic device. In the field, we will take easy to moderate walks through the backcountry, where we'll use various writing exercises and storytelling techniques to gain a better understanding of how nature and landscape influence our lives; it's the personal knowledge of this relationship, in turn, that allows writers to both anchor their "voice," and to convey to readers a strong sense of place. By the end of the course you will gain an understanding of the structure and technical elements essential to this genre, and how to more clearly express nature-based themes.

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.

Secrets of the Lower Geyser Basin

June 28 (#628)

Limit: 12

Location: Old Faithful

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

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

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 one-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 and end at about 4:00 pm.

The Art of Wildflower Identification

June 28-30 (#629)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Meredith E. Campbell

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

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.

Wildlife Artists & Illustrators



June 28-30 (#630)

Limit: 12

Location: Lake

Instructors: Gene Ball

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

NEW

Focusing on the work of wildlife artists and illustrators in America from the days of exploration and settlement to the present, this course will explore the development of wildlife art, themes of the artists, parallels with movements to conserve and restore wildlife populations, the guidebook phenomenon of the 20th century, the blending of wild subjects with the elements of art, omissions in wildlife art, and the array of contemporary art prints and reproductions.

Field trips to the Buffalo Bill Historical Center in Cody and the National Museum of Wildlife Art in Jackson will be featured. The class will headquarter at Lake with the initial session at 7:00 pm on the first day and ending late afternoon on the last day. Rooms have been set aside at Lake—contact registrar for reservation information.



Wolves of the World

June 28-30 (#631)

Limit: 12

Location: Lamar Buffalo Ranch

Instructors: Douglas Smith, Ph.D. &

Christine Smith

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

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 relations 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.

"Thirty-Seven Days of Peril": The Truman Everts Story

July 1 (#701)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nancy Procter, M.Ed.

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

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 "Thirty-Seven 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 (and lose) them? Participants should be prepared for moderately strenuous hiking and off-trail travel in rough terrain.

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

Family Wonder Week

July 2-5 (#702)

Limit 20

Location: Lamar Buffalo Ranch

Instructor: Ellen Petrick-Underwood, M.S.

\$240 Adult (Member's fee \$230)

\$160 Child (Member's fee \$150)

NEW

"A thousand Yellowstone wonders are calling, look up and down and round about you!"

—John Muir, 1898

Rachel Carson wrote, "A child's world is fresh and new and beautiful, full of wonder and excitement. It is our misfortune that their clear vision, that sense of what is beautiful and awe inspiring is dimmed and even lost by the time they reach adulthood." Share the wonder as families discover Yellowstone together. This four-day adventure will allow time for learning and play as participants experience the park's geology, wildlife, and human history. Learning will be facilitated through observation, experimentation, physically involving simulations, creative writing, art, and storytelling. This is an active program and participants should be prepared for daily hikes of up to 4 miles at a casual pace.

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.

Introduction to Yellowstone's Geological Landscapes

July 5 (#703)

Limit: 12

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 at approximately 6:00 pm.

Artistic Field Journals

July 5-8 (#704)

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.

Plants of Yellowstone

July 6-8 (#705)

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.



Ripple Effect: The Ecology of Wolf Restoration

July 6-8 (#706)

See description on pg 11.

Yellowstone's Geoecosystem

July 7-9 (#707)

Limit: 12

Location: Mammoth Hot Springs

Credit Pending

Instructor: Paul Doss, Ph.D.

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

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 this 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 Hot Springs area at 8:00 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.

Day Hiking the Wild Yellowstone

July 8-11 (#708)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nancy Procter, M.Ed.

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

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 8 to 10 miles, with 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.

Aquatic Insects of Yellowstone

July 9-11 (#709)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Robert Anderson, Ph.D.

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

The ponds, riffles, streams, and rivers of greater Yellowstone support an abundance of aquatic insects. Their biomass, density, and diversity can be impressive. Mayflies, caddisflies, salmonflies, and their relatives are extra-aquatic as winged adults, but in their nymphal, immature stages are adapted to life in the water where they live with backswimmers, water boatmen, water striders, water bugs, scavengers, diving beetles, whirligigs, and a variety of maggots—the larvae of flies. The diversity and habitats of the aquatic forms of these insects on which so many birds and fish depend for survival will be examined through excursions in the lab and field.

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

Nature Photography in Yellowstone: Building a Foundation for Creativity

July 9-12 (#710)

Limit: 11

Location: Lake

Credit Pending

Instructor: Sandra Nykerk

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

Yellowstone's magnificent diversity of sweeping landscapes, majestic wildlife, brilliant colors, and steamy geyser basins provide an unparalleled setting for learning and expanding photographic skills. This four-day workshop will initially focus on photographic principles, including the ethics of nature photography, creative visualization, learning to see the light, metering, exposure, and composition. With this foundation, more advanced topics will then be considered, including film and equipment selection, and the diverse possibilities of macro photography. Daily classroom lectures and slide programs will be integrated with field trips to allow maximum opportunity for "hands-on" learning and enjoyment of this spectacular region.

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 equally competent naturalist!

We will meet in the Lake 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 Lake—contact registrar for reservation information.

Scholarship Fundraiser Course

THE INSTITUTE OFFERS a limited number of 50% scholarships to enable educators to attend our courses and then share their knowledge with others. In order to increase the number of scholarships the Institute is able to offer, we hold an annual scholarship fundraising course that is an opportunity for participants to support education in Yellowstone while learning about the park from a Yellowstone expert. Tuition for the scholarship fundraiser course includes instruction, lodging, meals, in-park transportation, all activity expenses, and a donation to the Institute scholarship fund.



The Grand Tour of Teton Geology

Offered in cooperation with the Murie Center

July 10-13 (#711)

Limit: 8

Location: Grand Teton

Instructor: Robert Smith, Ph.D.

\$1250

NEW

Learn about the geology of the Teton Range, stay at the historic Murie Ranch, and support the Institute scholarship fund for teachers. After an introductory presentation and dinner on the first evening, we will spend the first day visiting geologic sites around the valley where Bob will talk about the evolution of the Jackson Hole landscape and how it is made by active geology. On the second full day, we will take a morning tram ride to view the Teton range from the top and see how it fits into the regional geology and topography, followed by a half-day float trip on the Snake River to examine the role of water and river processes in the evolution of Jackson Hole. On the last morning, we will take a 45-minute flight over Grand Teton National Park and its surrounding area to see the entire geologic system and its mountainous scenery from the air.

We will meet at the Murie Ranch at 5:30 pm on the first day for dinner and an introductory presentation and end with a farewell lunch on the last day.

Tuition fee includes lodging, tram ride, float trip, flight, and all meals from dinner Thursday, July 10 to lunch Sunday, July 13. Tuition fee also includes a donation to the Institute scholarship fund, a portion of which will be tax-deductible.

Yellowstone's Charismatic Microorganisms

July 11-13 (#712)

Limit: 12

Location: Old Faithful/Mammoth

Instructor: David M. Ward, Ph.D.

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

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. In the field, 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. Back in the classroom, we will use microscopes to view the microorganisms that form these communities.

We will meet in the Old Faithful Snow Lodge lobby at 9:00 am 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.

Lichens & Mosses in Yellowstone National Park

July 12 (#713)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Sharon Eversman, Ph.D.

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

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 at the Lamar Ranch at 9:00 am and we will be back at the ranch by 5:00 pm. Bring a sack lunch, and if you have a hand lens or little magnifying glass it would be good to bring it.

Alpine Wildflowers

July 12-14 (#714)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: John Campbell, Ph.D.

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

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 focusing on the alpine regions of the Beartooth Plateau and Mt. Washburn. Participants should be able to hike 2 to 4 miles at elevations over 10,000 feet.

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

The Nez Perce in Yellowstone

July 12-14 (#715)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Jim Garry, M.S.

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

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 the present.

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.

Fly-Fishing for Women I

July 14-16 (#717)

Limit: 6

August 11-13 (#817)

Limit: 6

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 the emphasis on developing good casting skills. Yours is the prettiest classroom ever—Yellowstone National Park! There will be time to practice and fish on your own, and view wildlife at dusk, returning very late each evening to Mammoth.

We will meet at Mammoth Hot Springs hotel lobby at 10:00 am on the first day with your fly rod and reel, and end in the late afternoon on the last day. Yellowstone Park fishing permits are required and are available at most visitor centers. Participants must provide their own equipment, or equipment is available for rent at local fly shops. Rooms have been set aside at Mammoth—contact registrar for reservation information. Fee includes \$15 for course materials (flies and textbook).



True to Life: The Art of Drawing Animals

July 15-17 (#718)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Peg Steunenberg

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

NEW

With an emphasis on drawing animals, this course is especially designed to expand your skills with easily applied techniques. "Seeing" in a completely different way, subjects become basic shapes and we move quickly from simple to complex. Anatomical features will be discussed to help participants develop an accurate drawing—an artist's communication and "touchstone" with the natural world. Fieldwork at the Albright Visitors' Center and specimens provided in class will provide class material. We will work with graphite, colored pencil, and watercolor; demonstrations will be given. Materials list will be provided.

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.

Mammal Tracking: Interpreting Tracks, Scat & Other Sign

July 15-18 (#719)

See description on pg 11.

Geysers, Mud Pots & Hot Springs

July 16-18 (#720)

Limit: 12

July 20-22 (#724)

Limit: 12

Location: Old Faithful

Credit Pending

Instructor: Duncan Foley, Ph.D.

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

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 10:00 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 \$15 for course materials.

Fly-Fishing for Women II

July 18-20 (#721)

Limit: 6

August 15-17 (#820)

Limit: 6

Location: Mammoth Hot Springs

Instructor: Rhea Topping

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

The Intro class has been such a success that we decided to add a second, more advanced class 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 techniques and fine-tuning. Our goal is to leave you with the desire to go fly-fishing again and again!

We will meet at Mammoth Hot Springs hotel lobby at 10:00 am on the first day, and end in the late afternoon on the last day. Yellowstone Park fishing permits are required and are available at most visitor centers. Participants must provide their own equipment or, equipment is available for rent at local fly shops. Rooms have been set aside at Mammoth—contact registrar for reservation information. Fee includes \$15 for course materials (flies and textbook).

Summer 2003 Inspiration Yellowstone Arts Workshop

INSPIRATION YELLOWSTONE is a series of workshops, taught by nationally known artists, intended to help visitors enjoy and appreciate Yellowstone through creative expression. The series is offered in cooperation with the Yellowstone National Art Trust, a non-profit organization formed to support the arts in Yellowstone National Park.

Coming to Terms with Yellowstone: A Writing Workshop in the Field

July 18-21 (#722)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Robert Michael Pyle, Ph.D.

\$425 (Member's fee \$415)

NEW

When we come to Yellowstone, how do we record our findings, our questions, our wonder and awe? Most visitors take Yellowstone home in postcards, video clips, or as a checked-off item on their national park life-list. By attending closely to the elements of place, acutely attuning our senses to the landscape, seeking out the stories of the land, and finding the right words to convey our discoveries with precision and love, we can engage more deeply than we ever imagined. In this workshop, writing technique will blend with intensive out-of-doors encounter to woo the muse of personal expression. Each day will begin with brief writing and a short talk from the instructor, before we head outside for hours. Writers will track and bring back verbal responses to their experience afield, to be shared and constructively critiqued for effect. Poetry, fiction, and essay will all be on the table, as will the flowers and rocks, soils and skies, waters and wolves, swallows and swallowtails, people and history of the Lamar Valley and beyond. Our walks will be gentle, with individual opportunity for more vigorous exploration. There will be time to discuss writing life and practice, and in the evenings, we will share writings that give us pleasure, solace, and inspiration.

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



Exploring Yellowstone's Microbes

July 19-22 (#723)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Anna-Louise Reysenbach, Ph.D.

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

This intensive course will acquaint you with the spectacular diversity of microbial life in Yellowstone's thermal springs. We will explore the extremes in which these organisms thrive, consider their biotechnological value, and consider whether Yellowstone's thermal springs might reveal something about life on other planets, and how life may have evolved on Earth.

A short introduction each day precedes a visit and occasional short hike to a hot spring area. Students will be encouraged to participate in extracting DNA from samples collected during the day. We will use the polymerase chain reaction (PCR) to amplify genes diagnostic of Yellowstone's microbes. Evening lectures will include an informal presentation of the biology of deep-sea hydrothermal vents and, if possible, guest lectures from experts in microbial and virus ecology of thermal environments. No background in microbiology is required. A basic understanding of biology is recommended.

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

Geysers, Mud Pots & Hot Springs

July 20-22 (#724)

See description on pg 21.

The Lesser-Known Carnivores of the Greater Yellowstone Ecosystem

July 22-24 (#726)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: James Halpenny, 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 23-24 (#727)

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 Yellowstone 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.

Yellowstone Geology Hikes

July 24-27 (#728)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Robert W. Spoelhof, Ph.D.

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

NEW

Take a walk on any Yellowstone hiking trail and there are lost worlds underfoot and all around—from ancient seas, to explosive vulcanism, to a frozen Yellowstone capped by 3,000 feet of ice. Join us as we hit the trail to explore Yellowstone's rich geologic history. During the day, we will hike 4 to 7 miles stopping frequently to discuss our geologic observations. Each evening, we will return to the Buffalo Ranch for an illustrated geology presentation.

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

Fly-Fishing the Catch & Release Way—Less Experienced

July 25-27 (#729)

Limit: 8

Location: Lamar Buffalo Ranch

Instructor: Richard Parks

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

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.

We 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.

Along the Yellowstone River with Lewis & Clark

July 25-27 (#730)

Limit: 10

Location: Mammoth Hot Springs/

Three Forks and Dillon, Montana

Credit Pending

Instructor: Jim Garry, 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 following the Jefferson River west to the headwaters of the Missouri system at Lemhi Pass.

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 from there to Dillon and Lemhi Pass where we will look at some of the impacts on the country since the days of Lewis and Clark.



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, Three Forks, and Dillon—contact registrar for lodging information.

Old Times at Old Faithful

July 26 (#731)

Limit: 15

Location: Old Faithful

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 sites of the Swimming Pool, Greenhouse, Wylie "Permanent" Camp, the former and current sites of the Haynes Photo Shops, and the Inn, Lodge, and General Stores. We'll share many interesting historical facts (why do they call the Upper Store the "B.A.C."?) and use antique photographs to help us understand 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 somewhere in the village.

Ghost Hotels of Yellowstone

July 27 (#733)

Limit: 12

Location: Yellowstone's Lower Loop

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 there at 5:00 pm.



Connected to the Land— The Human Spirit & Wild Yellowstone

July 27-30 (#734)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Susan Marsh, M.L.A.

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

NEW

In today's helter-skelter world, is it still possible to establish meaningful personal connections to the land? This course is dedicated to the idea that such connections are not only possible but essential to feeling at home in an increasingly dislocated world. Join us as we step out of the fast lane and embark on a rich personal experience of Yellowstone, cultivating connections with the park and learning to establish similar bonds with the landscapes we call home.

We'll use simple writing exercises, time outdoors (some hiking but nothing strenuous), sharing your experiences with each other, and "thinking on paper" in your notebooks. An interest in exploring your thoughts on paper is helpful, but you don't need to be a writer. The words you write are for capturing the images and emotions that you'll remember with pleasure when you think of Yellowstone.

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

Geology of Yellowstone Lake

July 28-30 (#735)

Limit: 12

Location: Lake

Credit Pending

Instructor: Lisa Morgan, Ph.D.

\$140 (Member's fee \$130)

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 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 Lake area 7:00 pm on the first day and end late afternoon on the last day. Rooms have been set aside at Lake—contact registrar for reservation information.

Discover Your Sky: Observing Techniques for Backyard Astronomers

July 29-31 (#736)

Limit: 15

Location: Lamar Buffalo Ranch

Instructor: Mike Murray

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

If you've ever wanted to learn the "tricks" for easily getting around the sky, this class is for you! Using a workshop approach, Mike will use slides, star maps, an inflatable "Starlab" planetarium as well as the pristine Yellowstone night sky to demonstrate how beginners and amateurs alike can develop their skills for finding astronomical wonders in the night sky.

"Star hopping" represents one of the most fun and useful ways of learning the constellations, and how to locate all those deep sky objects that we all want to find in our binoculars or telescopes. Several examples will be shown, along with a primer on how best to choose, use, and care for a telescope.

The first meeting will begin at 7:30 pm on July 29, with evening observing sessions beginning at 10:00 pm on the 29th, 30th and 31st. Evening observing sessions will utilize binoculars and a large-aperture telescope, but will also include instruction for meteor watching and constellation identification.



The Bison of Yellowstone

August 1-3 (#801)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Jim Garry, M.S. &

Harold Picton, Ph.D.

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

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.

Predator Conservation in the Greater Yellowstone Ecosystem

August 1-3 (#802)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Tim Clark, Ph.D. &

Steve Primm, M.A.

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

NEW

Grizzly bears, gray wolves, Canada lynx, and wolverines are important carnivores in the Yellowstone ecosystem. What does the future hold for these big predators? Come explore the ecology, management, policy, and politics of these and other carnivores. The conservation efforts for each of these four species are at dramatically different stages. Grizzly bear recovery is nearly 30 years old and is at a contentious crossroads. Wolf recovery became a reality only eight years ago and is widely considered a success but great political controversy remains. In contrast, lynx and wolverine conservation programs are only in their formative stages. Through illustrated lectures, group discussions, and field time, we will present the carnivore conservation challenge in all of its complexity. Participants should be prepared for moderate 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.

Day Hiking the Yellowstone Lake Area

August 1-4 (#803)

Limit: 12

Location: Lake

Instructor: Nancy Procter, M.Ed.

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

NEW

From the top-of-the-world views on Avalanche Peak to the churning waters of the Canyon's 7-Mile Hole, Yellowstone's interior offers an outstanding diversity of backcountry hiking. With historic Lake Village as our base camp, we'll explore the wild lands of the Yellowstone River, Yellowstone Lake and the Absaroka Mountains. Apres-hiking activities abound in the Lake area, from sunset cruises to string quartets. 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 8 to 10 miles, with possible 2,000-foot elevation gains, so bring the boots that are your feet's best friend.

We will meet in the Lake area at 7:30 pm on the first day and end late afternoon on the last day. Rooms have been set aside at Lake—contact registrar for reservation information.

Tally Ho!—A History of Yellowstone Transportation

August 2 (#804)

Limit: 12

Location: Mammoth Hot Springs

Instructor: Steve Blakeley

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

NEW

Imagine a time when the manner in which you saw Yellowstone was just as exciting if not more so than the sights themselves. From the earliest days of wagon travel to the several hundred-bus fleet of Harry Child, transportation was king and every bit as important as anything else you would encounter on your visit to Wonderland. Our day will include brief visits at famous Grand Tour sights along the upper loop road, a stop at the National Park Archives to see some of Yellowstone's most famous vehicles and a short ride in one of the park's most recent acquisitions, a 1937 open air White Touring Car. Minimal walking includes a dozen stops at historic sites that reinforce this bygone era. Bring a light lunch and some foul weather gear.

We will meet in the Mammoth Hot Springs Hotel map room at 9:00 am and end by 4:00 pm.



Yellowstone's Home Town: Mammoth Hot Springs

August 3 (#805) *Limit: 12*

Location: Mammoth Hot Springs Area

Instructor: Leslie J. Quinn, M.Ed.

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

NEW

Yellowstone's oldest village, Mammoth, was chosen by the park's second Superintendent, Philetus Norris, as park headquarters, and from earliest times to now the village has been the heart of human activity in the Park. Join us as we explore historic sites including Fort Yellowstone, the two Haynes Photo Shops, Mammoth Hotel, and the U.S. Army Cemetery. Taking a closer look, we will also discover that the now vacant roadsides of the village are almost all sites of former historic structures, such as McCartney's Hotel, Camp Sheridan, Mammoth Lodge, Chittenden's reservoir, Bath Lake, the Devil's Kitchenette, and more. Historic photographs will help us reconstruct the area's rich past.

We will tour the village mostly on foot, but will probably use a vehicle to shuttle to the Upper Terraces. Be prepared to walk 3 to 4 miles during the course of the day.

We will meet in the Mammoth Hot Springs Hotel at 9:00 am and end about 5:00 pm somewhere in the village.

The Fur Trade in Yellowstone

August 4-6 (#807) *Limit: 12*

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Jim Garry, M.S.

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

NEW

From 1807 to 1840, a motley assemblage of rough-and-ready Euro-Americans penetrated the Yellowstone region in search of marketable pelts, mostly beaver. This course will examine the exploration of Yellowstone by these "mountain men," their myth-laden lifestyle and culture, and the global fur trade network within which they worked. Beginning with the 1807 exploration of the region by John Colter and the St. Louis Fur Company, we will trace the development of the fur trade through the founding of the Rendezvous system to the height and eventual end of the mountain man era. Using maps and primary source materials taken from journals and diaries, the class will follow paths traveled by the mountain men through the park, study their early observations, and visit the sites they wrote and talked about.

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

Ripple Effect: The Ecology of Wolf Restoration

August 4-6 (#808)

See description on pg 11.

Riddle of the Lynx

August 5 (#809)

Limit: 12

Location: Lake

Instructor: Kerry Murphy, Ph.D.

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

NEW

Racing atop the snow, the lynx seems perfectly adapted to killing its primary prey, the snowshoe hare—but the lynx is struggling in the lower 48 states, Yellowstone included, and scientists are trying to find out why. Join the leader of the Yellowstone Lynx Project as we explore the ecology and management of the lynx in Yellowstone National Park and the Greater Yellowstone Ecosystem. Beginning with a morning classroom session, we will spend the afternoon in the field visiting lynx habitat, a lynx hair-snag station, and a snowshoe hare live-trapping site. Throughout the day, we will discuss current status of the lynx in Yellowstone, its comparative morphology and niche, predator-prey relationships, and interactions with other species including humans. Participants should be able to hike up to 2 miles total.

We will meet at the Lake area at 8:00 am and end at 6:00 pm the same day.



Shaping the Northern Yellowstone Landscape

August 7-9 (#810)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Grant A. Meyer, Ph.D.

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

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.

A Trail Through Leaves—The Art of the Field Journal

August 7-10 (#811)

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.

Yellowstone's Odd Couple: Biotechnology & the Park Service

August 8-9 (#812)

Limit: 12

Location: Mammoth Hot Springs

Instructors: Kevin Schneider &

Timothy R. McDermott, Ph.D.

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

NEW

Derived from a heat-loving microorganism found only in Yellowstone's geothermal features, DNA "fingerprinting" technology has earned its patent-holder hundreds of millions dollars since its introduction. That discovery has fueled what's been described as a microbial "gold rush" and companies have since found ways to use research on Yellowstone microorganisms to create new compounds that biodegrade pollutants, treat agricultural waste, and improve detergents. What is it about Yellowstone's heat-loving microorganisms that is so interesting to biotechnology companies? Should private companies be able to profit from research on park resources in this manner and, if so, should Yellowstone share in the financial benefits? Co-taught by a Park Service authority on "bioprospecting" and a leading microbiologist, this course explores the ethical, legal, scientific, and technical dimensions of this complex issue. Alternating between classroom presentations and field trips to important geothermal features, we will learn about specific examples of biotechnology, the importance of basic research, potential benefits for society, economic incentives, and legal issues such as patents and benefit sharing agreements.

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.



History of Yellowstone Artists

August 9 (#813)

Limit: 12

Location: Lake

Instructor: Peter Hassrick, M.A.

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

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 Lake area at 9:00 am and end at 5:00 pm.

Some Like It Hot: Thermophilic Microorganisms of Yellowstone

August 10 (#814)

Limit: 12

Location: Mammoth/Norris

Instructor: Timothy R. McDermott, Ph.D.

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

NEW

Yellowstone National Park is home to the world's most diverse array of geothermal features encompassing a broad range of temperatures, pH, and chemistries. These geothermal features are "home sweet home" for an incredible range of microorganisms that actually thrive in these harsh environments. Our one-day survey will include selected hot springs such as Octopus Springs, Mud Volcano, and several unique sites in Norris Geyser Basin. During our stops, we will discuss how these amazing organisms make a living, how they cooperate to help each other survive, how the environment selects for various organisms, and how the microbes contribute to the array of colors we observe in these charismatic springs.

We will meet at Mammoth Hot Springs at 9:00 am and end at 4:00 pm back at Mammoth.

Fly-Fishing for Women I

August 11-13 (#816)

See description on pg 20.

Introduction to Mammal Tracking

August 14 (#818)

Limit: 12

Location: Gardiner, Montana

Instructor: James Halfpenny, 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.

Day Hiking the Cascade Corner

August 14-17 (#819)

Limit: 12

Location: Bechler

Instructor: Nancy Procter, M.Ed.

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

NEW

Join us to explore the wild magical places of the Cascade Corner—heart-stopping waterfalls, verdant canyons, and soothing meadows. After an evening review of safe, comfortable, low-impact backcountry travel, we will spend the next three days on the trail soaking up the history, geology, ecology, wildlife and wildflowers with stories, discussion and hands-on exploration. We'll hike 8 to 10 miles daily, but the elevation gain will be minimal. River crossings are inevitable in the Bechler, so come prepared with river shoes and fording attire.

We'll meet in the Bechler area at 7:30 pm on the first day and end late afternoon on the last day.

Fly-Fishing for Women II

August 15-17 (#820)

See description on pg 21.

Wonderland's Serene Spot: History on Yellowstone Lake

August 19 (#822)

Limit: 10

Location: Lake-Fishing Bridge

Instructor: Leslie J. Quinn, M.Ed.

\$75 (Member's fee \$65)

NEW

Beloved for its serenity and elegance, Lake Hotel has long been a place to slow down and enjoy Yellowstone in style, but the hotel's button-down exterior belies the area's colorful past. Home to a storied steamship wreck, a vanished lodge, controversial campgrounds, and the colorful Wylie "Permanent Camp", the Lake/Fishing Bridge area is a treasure trove of historical curiosity.

Traveling on foot and in a 1937 White Touring Car, we will visit sites including Lake Hotel and Lodge, Yellowstone Lake Boat Company, the Wylie Camp, the Howard Eaton Trail, the former Fishing lodge, and the Haynes Photo Shop. The highlight of the course is a boat trip to Stevenson Island to visit the wreck of the SS E. C. Waters and recount the checkered tale of its owner/operator, Mr. Eli Hofer. Historic photographs will help us recreate the past scenes of Lake and Fishing Bridge Villages.

We will meet at the Lake Hotel at 8:00 am and end late afternoon. Fee includes \$10 for boat trip.

Wolves in Montana—Conservation & Management of a Large Predator

August 22-24 (#824)

Limit: 12

Location: West Yellowstone, Montana

Instructors: Carolyn Sime, M.S. &

Robin Hompesch, M.Ed.

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

NEW

Join us to examine and experience the rewards and challenges of conserving wolves within a multi-ownership landscape—Montana. Wolves have been entering northwestern Montana from Canada since the 1980s and recently from the expanding population of reintroduced wolves in Yellowstone National Park. The delisting of wolves from the Endangered Species Act entails the transfer of management of this charismatic, yet controversial predator from federal to state authority. Montana has a rich history of wildlife management and is committed to the conservation of large carnivores, which is exhibited in our successful management of mountain lions and black bears. Yet, each species challenges biologists and the public with unique aspects of its ecology. Montana's hunters question the impact of wolves on elk and deer populations, while livestock owners are angered by wolf depredation on their cattle, sheep, guard dogs, etc. Some Montanans see potential economic gains from wolves, while others fear for human safety. During this class, we will travel through wolf territories north of Yellowstone Park examining the wolf/prey



scientific research, predator management strategies, and perspectives of Montanans living with wolves. Though we are unlikely to see wolves, we will visit their habitat and attempt to observe and interpret their sign. Participants should be prepared for short hikes.

We will meet in West Yellowstone at 7:00 pm on the first day and end mid-afternoon on the last day. Rooms have been set aside in West Yellowstone—contact registrar for reservation information.

The American Beaver: Engineer & Habitat-Maker

August 29-30 (#827)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Bruce Thompson, M.S.T.

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

NEW

No other animal on our continent has so uniquely gnawed its way into both the natural and cultural history of our nation. The beaver is the keystone in the ecological arch of interrelationships, uniting species as diverse as fish and flies, moose and mink, willows and water birds. To study beavers is to comprehend the rich webs that comprise our wildlands. Join us in exploring the world of the extraordinary mammal that never ceases to grow, that uses the same materials for both food and construction, and whose monumental work has earned it the reputation of "the original conservationist." You will observe active beaver colonies firsthand, learn about beaver evolution and behavior, discover the status of *Castor canadensis* in the greater Yellowstone area, find out what current research tells us about this preeminent dam builder, and even see some of the latest innovations in low impact beaver "behavior modification."

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 4:30 pm on the last day.



Words Inspired by Wilderness

August 29-September 1 (#828)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Alan Kesselheim

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

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 be only 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.

The Secret Life of Yellowstone Mushrooms

August 31-September 1 (#829)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Cathy L. Cripps, Ph.D.

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

NEW

Appearing as if by magic with the autumn rain, mushrooms are just the beautiful fruiting bodies of a rich fungal world beneath our feet. An introduction to fungal ecology and identification, this course will help you distinguish between varieties of mushrooms, puffballs, cup and coral fungi, truffles, and conks, and explore the vital role that fungi play in forest ecosystems. Symbiotic (mycorrhizal) fungi grow on tree roots and allow forest trees to establish and thrive. Fungal decomposition recycles essential nutrients back into the soil. Some are food for animals, others proliferate after forest fires, and parasitic fungi soften wood for cavity nesting birds. Fall is the season for mushrooms in Yellowstone. Come join us!

Classroom instruction in the morning will be followed by easy field trips to observe wild mushrooms in their natural habitats. We will identify mushrooms with field keys.

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



Exploring Greater Yellowstone's Future

Offered in partnership with the Greater Yellowstone Coalition

September 5-7 (#903)

Location: Bozeman, Montana

Instructor: Mike Clark

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

A comprehensive look at the major forces shaping 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 how these impacts are affecting Yellowstone National Park. From our base at Gallatin Gateway, we will explore the major river valleys – the Paradise, the Gallatin, and the Madison – by looking at how local governments, citizens' groups, ranchers, and scientists are responding to the forces and changes that now characterize the "New West." An emphasis will be placed on group dialogue and exploration of how these issues affect greater Yellowstone's future. We will travel to each valley to meet with leaders who are directly confronting these challenges.

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

Autumn Day Hiking in Yellowstone

September 12-14 (#906)

Location: Mammoth Hot Springs

Instructor: Melissa Pangraze &

Edward Schauster, M.S.

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

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 a 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 bighorn 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 registrar for reservation information.

Raptor Identification & Ecology

September 19-21 (#909)

Location: Mammoth Hot Springs

Instructor: Terry McEneaney

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

NEW

Autumn in Yellowstone means soaring raptors riding the updrafts over the mountains and ridges for a few miles of easy gliding on the way to the southern wintering grounds. Join us to observe and learn about the order Falconiformes, including Rocky Mountain diurnal accipitrids such as buteos, accipiters, harriers, eagles, and ospreys. This course will focus on the finer points of raptor identification and ecology. Learning the nuances of raptor identification is one of the fundamental building blocks in developing good birding skills. This course will be geared for beginning to intermediate birders with some helpful hints for advanced birders, and will take place within and beyond the confines of Yellowstone National Park.

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.



Summer 2003 Inspiration Yellowstone Arts Workshop

INSPIRATION YELLOWSTONE is a series of workshops, taught by nationally known artists, intended to help visitors enjoy and appreciate Yellowstone through creative expression. The series is offered in cooperation with the Yellowstone National Art Trust, a non-profit organization formed to support the arts in Yellowstone National Park.

Autumn Landscape Photography

September 19-23 (#910) *Limit: 15*
Location: Mammoth Hot Springs
Instructor: Pat O'Hara, M.F.R.
\$395 (Member's fee \$385)
NEW

Evocative and compelling, two-dimensional photographic images are compositions expressing awe and wonder of our multi-sensory three-dimensional world. In this workshop, you will be encouraged and guided to become sensitively engaged with your environmental subjects, so that the creative processes become life-enhancing experiences. Through a combination of classroom and fieldwork, the elements of composition in color photography will be emphasized. This workshop is designed for the advanced photographer and will cover special techniques, single lens reflex (SLR) equipment, and contemporary digital technology.

Indoor instruction will take place mid-morning and mid-afternoon. Be prepared for early morning and evening field outings.

We will meet in the Mammoth 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. Participants will be expected to pay for their own lab film processing.

Autumn Wildlife in Yellowstone

September 24-26 (#911) *Limit: 12*
Location: Mammoth Hot Springs
Instructor: Jim Garry, M.S.
\$180 (Member's fee \$170)
NEW

During the park's brief autumn, the activities of Yellowstone wildlife take on a distinct urgency. Red squirrels busily hoard the nutritious cones of whitebark pine, barking angrily at the insatiable grizzly bears that raid their carefully prepared stores. Wolves tighten their belts in the face of summer-strengthened elk that, in autumn at least, have the upper hand in the struggle between predator and prey. And the haunting bugle of bull elk echoes across the landscape signaling vigor to potential mates and competitors, and the coming onset of winter to rapt humans. In this course, we will spend most of our time on Yellowstone's Northern Range, viewing and learning about wildlife including the complex biological and political challenge of conserving Yellowstone wildlife habitat for future generations. 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 information.

Fly-Fishing in the Fall

September 26-28 (#913) *Limit: 8*
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.

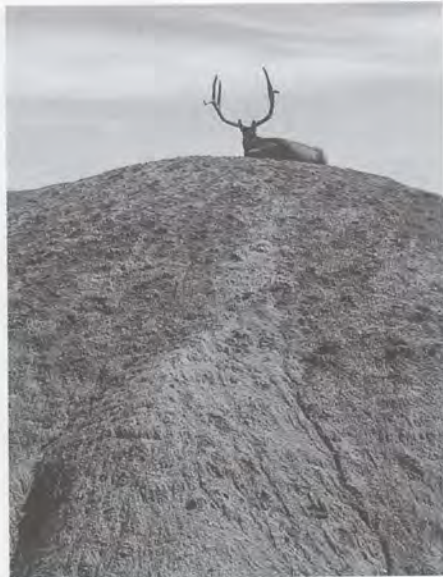
We will meet in the Mammoth Hot Springs area at 8:30 am on the first day and end late afternoon on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information. Yellowstone Park fishing permits are required and available at most visitor centers.

Autumn Photography in Yellowstone

September 26-29 (#914) *Limit: 11*
Location: Mammoth Hot Springs
Credit Pending
Instructor: Sandra Nykerk
\$235 (Member's fee \$225)

Spend four days exploring 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, and 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. Throughout the course, consideration will be given to developing personal vision and creativity and understanding the importance of natural history knowledge to the nature photographer. Lab film processing during the course will provide on-site feedback for skill development and film comparisons.

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.



The Elk of Yellowstone

September 27-28 (#915)

Limit: 12

Location: Mammoth Hot Springs

Instructor: Doug Houston, Ph.D.

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

NEW

Elk are the most abundant ungulate in Yellowstone Park and thus represent a major link in the park's complex ecosystem. Explore the behavior, ecology, and management of this remarkable creature with former Park Service biologist Doug Houston. We will spend much of our time outdoors observing the spectacular elk rutting displays, which have come to symbolize autumn in Yellowstone.

Day one will begin with presentations on the ecology and behavior of elk. During the afternoon and evening we will attempt to locate and observe rutting elk on the famed northern winter range. Day two will begin with early morning elk watching, followed by lectures on elk-vegetation relationships and elk management. Again, late afternoon and evening hours will be devoted to elk watching, supplemented by discussions of elk behavior and ecology.

We will meet in the Mammoth Hot Springs area at 8:30 am on the first day and end in the late afternoon/evening of the last day.

Autumn Fly-Fishing for Women I

September 29-October 1 (#916)

Limit: 6

Location: West Yellowstone, Montana

Instructor: Rhea Topping

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

NEW

Nothing is more beautiful than experiencing Yellowstone National Park in the Fall—few people, better wildlife viewing opportunities, and big brown trout coming up the Madison to spawn in full color. With the main emphasis on developing strong casting skills, your course will cover the basics: knots, wading, safety, equipment, fly patterns and the insects they imitate, playing and landing fish, catch and release, and stream etiquette.

We will meet in the West Yellowstone area at 9:00 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. Participants must provide their own equipment and equipment is available for rent at local fly shops. Rooms have been set aside in West Yellowstone—contact registrar for reservation information. Fee includes \$15 for course materials (flies and textbook).

Autumn Fly-Fishing for Women II

October 3-5 (#1001)

Limit: 6

Location: West Yellowstone, Montana

Instructor: Rhea Topping

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

NEW

This course immediately follows *Autumn Fly-Fishing for Women I* should you wish to take both! After some initial review, again concentrating on developing good casting skills, but placing more emphasis on techniques and fine-tuning, we will fish as many different rivers as possible, returning after dark to West Yellowstone. Our goal is to leave you with the desire to go fly-fishing again and again! Prerequisite—attending a previous *Fly-Fishing for Women I* course.

We will meet in the West Yellowstone area at 9:00 am on the first day and end in late afternoon on the last day. Yellowstone Park fishing permits are required and are available at most visitor centers. Participants must provide their own equipment and equipment is available for rent at local fly shops. Rooms have been set aside in West Yellowstone—contact registrar for reservation information. Fee includes \$15 for course materials (flies and textbook).

Autumn Wolf Ecology

October 3-5 (#1002)

Limit: 12

Location: Mammoth Hot Springs

George Bumam, M.S.

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

NEW

Come to the park in October, listen quietly, and you may hear the forlorn howl of a hungry wolf pup. By early autumn, the interplay between wolves and their prey has turned decisively in favor of summer-strengthened elk at the peak of their vigor and widely dispersed across the landscape. This course explores the ecology, behavior, and management of wolves and their prey during this challenging time of year. We will examine the behavior of aging pups, early vying for the opportunity to mate, hunting strategies, mortality, dispersal, and human-wolf conflicts. The course will include illustrated presentations, guided discussions, lectures by guest experts, and field observation of Yellowstone's dynamic wolf packs. Participants should be prepared for cold weather in mornings and evenings. Course activities will be based out of Mammoth with field excursions throughout Yellowstone's Northern Range.

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.

Wilderness First Aid

November 1-2 (#1101)

See description on pg 9.

Wilderness First Responder

November 6-15 (#1102)

Limit: 24

Location: Lamar Buffalo Ranch

Instructor: Wilderness Medicine Institute Staff

\$480 (Member's fee \$470)

This 80-hour course is required by many outdoor employers and recommended for anyone who works or plays in the backcountry. Classroom sessions and field exercises will teach participants how to deal with emergencies in remote settings. Emphasis is placed on principles of medical care rather than memorization of information. Certifications upon successful completion include Wilderness First Responder and American Heart Association CPR. Participants must be 18 years old. 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.

2003 Backcountry Courses

The ingredients of every Institute backcountry course are the same:

- Multi-talented instructors *who are expert naturalists, skilled teachers, and seasoned backcountry leaders*
- Small groups of 8 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 2 million acres of backcountry.

Backpacking and Horsepacking Courses

The Institute has two backcountry programs—backpacking and horsepacking. Together, they allow people of diverse abilities to explore remote areas of the park.

In order to protect the wilderness character of the lands we visit, both programs practice and teach the principles of Leave No Trace Outdoor Ethics.

For all backcountry courses, 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.

Guest experts

Guest experts accompany some courses to explore a single topic in depth. This year's guest experts include authorities on grizzly bears, wolves, geology, and history.

Backpacking Courses

Backpacking courses are for physically fit adults who want to experience the Yellowstone wilderness, learn how to backpack comfortably and responsibly in



grizzly country, and gain a deeper appreciation for the park's rich natural and cultural heritage. Courses are led by one of our talented backcountry instructors—Tim Hudson, Angela Patnode, Melissa Pangraze, or Greg Gordon—each of whom has over 100 weeks of backcountry teaching experience.

Every backpacking course begins with a full day in the frontcountry to review the route, expected physical demands, bear safety, grizzly bear ecology and management, Leave No Trace principles and practices, gear and food requirements, and other preparatory information. This is also a chance to make any last minute purchases.

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

Selecting an Appropriate Backpacking Course

In order to enjoy your Institute backpacking course without endangering yourself or others, you must be sufficiently fit. Backpacking is a physically demanding activity, particularly at high elevations (5,000 to 12,000 feet) carrying a full pack. You should expect significant demands on heart, lungs, and all major muscle groups, particularly the back and legs.

To help you select an appropriate course, we rate the difficulty level of all backpacking courses. Courses are rated 1 to 5, from least to most difficult, and this year's courses span the full range. It is critical that you accurately assess your ability to fulfill the physical requirements of each course you consider. Selecting a course that is too difficult can endanger your health and that of the other participants and diminish everyone's enjoyment of the course.

If you have any questions about the rating scale or the difficulty of any specific course, please call the Institute office and a staff member will be happy to help.

Backpacking Difficulty Scale

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



Horsepacking Courses

Institute horsepacking courses are led by Tory and Meredith Taylor, owner/operators of Taylor Outfitting of Dubois, Wyoming. Expert naturalists, dedicated conservationists, and capable horse people, the Taylors have been offering horsepacking trips in the greater Yellowstone area for over 20 years.

Tory is an author, teacher, and conservationist who has worked on behalf of Wyoming wildlife for organizations such as the Wyoming Wildlife Federation and the Dubois Wildlife Association. He is particularly knowledgeable about horses, wildlife, and the history of the American west, including the fur trade and Yellowstone's Native American heritage.

Meredith is a writer, biologist, professional conservationist, and educator who has worked for organizations including the Sierra Club and Greater Yellowstone Coalition. She presently serves as the Yellowstone program director for the Wyoming Outdoor Council. Meredith is an authority on biology, from bird identification to the ecology and conservation of Yellowstone wildlife. She is also a world-class campfire cook.

Together, the Taylors provide participants with a rich Yellowstone experience unlike any other. Participants have the opportunity to connect with some of the wildest places in the United States, learn about the natural and human history of the area, enjoy gourmet campfire cuisine, and just relax and have fun.

Every course features two options for travel: riding or horse-supported hiking. Carrying only small day packs, the hikers are guided by Meredith along the route between camps while Tory leads the riders and pack horses.

The pace of horsepacking courses is leisurely and there is time for wildlife watching and relaxation 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 provide their own sleeping bag, clothing, and personal supplies.

Black Canyon Wildlife Backpack

May 24-28 (#514)

Limit: 8

Location: Black Canyon

Difficulty Level: 3

Instructor: Nathan Varley, Ph.D. candidate
& Tim Hudson, M.A.

\$350 (Member's fee \$340)

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 the Mammoth Hot Springs area at 8:30 am the first day and end at 4:00 pm the last day.

Hellroaring Wolf Backpack

June 7-11 (#604)

Limit: 8

Location: Hellroaring Area

Difficulty Level: 2

Instructor: Norman A. Bishop &
Tim Hudson, M.A.

\$350 (Member's fee \$340)

NEW

Learn about the ecology and management of Yellowstone wolves by heading into the backcountry to observe the world as they see it – reading their sign, watching their prey, and exploring their habitat. The confluence of Hellroaring Creek and the Yellowstone River marks the intersection of four pack territories, providing a unique opportunity to examine the dynamic relationships between competing packs. We may see or hear the wolves but only if we can do so in a manner that will not displace or disturb them. Before going afield, we will review the history of wolves in the park and the ecology of wolf restoration. Publications will be sent to participants for pre-course reading.

We will meet in the Mammoth Hot Springs area at 8:30 am the first day and end late morning the last day.

Where the Wild Things Are: A Wildlife Basecamp

June 15-19 (#611) Limit: 8

Location: Hellroaring Area

Difficulty Level: 2+

Instructor: Nathan Varley, Ph.D. candidate
& Melissa Pangraze

\$350 (Member's fee \$340)

NEW

Enjoy the challenge and thrill of observing wildlife in the wilderness. From our wildlife basecamp, we will probe the species-rich surroundings with strenuous but rewarding day hikes of 6 to 10 miles. Elk, bison, wolves, coyotes, and bears are among the species we will attempt to observe. Skills taught in this course include habitat identification and wildlife watching techniques for a large variety of species. Rich and illuminating discussions of wildlife ecology complement an assortment of group activities planned to impart a memorable wilderness experience.

We will meet in the Mammoth Hot Springs area at 8:30 am the first day and end mid-afternoon on the last day.

Leave No Trace Backpacking Master Course

June 16-21 (#612) Limit: 10

Location: Lamar Buffalo Ranch,
Lower Black Canyon

Difficulty Level: 2

Instructors: Ivan Kowski &

National Outdoor Leadership School

This Master Course enables successful graduates to teach basic Leave No Trace certification courses. The Master Course provides participants with a comprehensive overview of Leave No Trace 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 begin at the Lamar Ranch 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) 335-2213.

Backpacking in Grizzly Country

June 17-21 (#615) Limit: 8

Location: Old Faithful

Difficulty Level: 2

Instructors: Greg Gordon, M.S. &
Tim Hudson, M.A.

June 24-28 (#625) Limit: 8

Location: Canyon

Difficulty Level: 3

Instructors: Greg Gordon, M.S. &
Tim Hudson, M.A.

July 13-17 (#716) Limit: 8

Location: Old Faithful

Difficulty Level: 2

Instructor: Angela Patnode

July 20-24 (#725) Limit: 8

Location: Canyon

Difficulty Level: 1

Instructor: Angela Patnode

September 3-7 (#902) Limit: 8

Location: Heart Lake/Snake River

Difficulty Level: 2+

Instructor: Greg Gordon, M.S.

September 17-21 (#908) Limit: 8

Location: Bechler

Difficulty Level: 2

Instructor: Melissa Pangraze

\$330 (Member's fee \$320)

NEW

If you want to learn to travel safely, confidently, and respectfully in grizzly country and gain a better understanding of grizzly bear ecology, behavior, and conservation, 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. Detailed information on each course will be sent upon registration.

Horsepacking: The Sheepaters of Greater Yellowstone

June 21-24 (#619) Limit: 8

Location: Absaroka Range,
Washakie Wilderness

Instructor: Tory and Meredith Taylor

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

NEW

The Sheep Eaters were a branch of the Shoshone culture whose permanent territory included areas in and around Yellowstone National Park. Misunderstood for years as a poor, diminutive, defenseless people, we now know that the Sheep Eaters were capable mountaineers who built a sophisticated culture around the hunting and use of bighorn sheep. Traveling to areas of the Absaroka Range south of the park, we will see sheep traps and wickiups, learn about their technology and tools, walk in their steps, and read historic accounts of the tribe written by early fur trappers and explorers. Along the way we will also learn about the diverse wildlife, paleontology, and geology of the South Absaroka Range.

We will meet on the first day at 8:00 am in Dubois, Wyoming, and return to the trailhead late afternoon the last day.



Backpacking in Grizzly Country—Canyon

June 24–28 (#625)

See description on pg 35.

Backpacking in Grizzly Country—Old Faithful

July 13–17 (#716)

See description on pg 35.

Backpacking in Grizzly Country—Canyon

July 20–24 (#725)

See description on pg 35.

Mirror Plateau Wolf Backpack

July 26–30 (#732)

Location: Mirror Plateau

Difficulty Level: 3+

Instructors: Dan Stahler, M.S. &

Angela Patnode

\$350 (Member's fee \$340)

NEW

At the height of summer, the wolves of the Druid Peak pack follow migrating elk to the remote heights of Mirror Plateau. Join us on a journey into this enchanting realm to learn more about Yellowstone wolves through a close study of this special pack. We will not attempt to observe wolves unless the opportunity arises, but rather attempt to observe the world as they see it, reading their sign, watching their prey, and leaving just our tracks alongside their own in summer wolf country. Along the way, we will discuss the relationships between wolves, their prey, and other predators; the ever-changing dynamics of pack structure and composition on the Northern Range; and the challenge of managing human-wolf interactions (including those in the backcountry).

We will meet in the Mammoth Hot Springs area at 8:30 am on the first day and end late afternoon one the last day.

Limit: 8

Geyser Basin Geology Backpack

August 3–7 (#806)

Location: Old Faithful

Difficulty Level: 2

Instructors: Cheryl Javorowski, Ph.D. &

Angela Patnode

\$350 (Member's fee \$340)

NEW

For those who know some basic principles of geology, the landscape of the Old Faithful area tells an epic story of the Yellowstone plateau's volcanic and glacial origins. Join us as we learn to read that story in hydrothermal explosion craters, hot springs, mud pots, a faulted resurgent dome, geysers, fumaroles, obsidian outcrops, and waterfalls. Geologic maps, field observation, and field journals will be used to help us see and understand geologic processes at a variety of scales. During the course, we will also learn to identify common rocks and discuss the protection of geothermal resources in and out of the park. No prior geologic knowledge or experience is necessary.

We will meet in the Old Faithful area at 8:30 am on the first day and return to the trailhead early afternoon on the last day.

Limit: 8

Flight of the Nez Perce Backpack

August 10–15 (#815)

Location: Lamar River/

North Absaroka Wilderness

Difficulty Level: 4

Instructors: Lee Whittlesey, J.D.,

Rosemary Sucec, M.A., &

Tim Hudson, M.A.

\$420 (Member's fee \$410)

NEW

Learn about the Nez Perce Indians and their dramatic 1877 foray through Yellowstone by heading into the backcountry to follow portions of their actual route. Historian Lee Whittlesey (an expert on the Yellowstone route of the Nez Perce) and cultural anthropologist Rosemary Sucec (who, on behalf of the park, has consulted with various Nez Perce tribal members about their views of the Yellowstone landscape and how they related to it both during and before 1877) will accompany you on a trip from the Lamar Valley up the Lamar River and Miller Creek over Bootjack Gap on the park's eastern border and down Hoodoo and Crandall Creeks to the Clark's Fork. Along the way we will discuss the known historic accounts of the trek and the possible alternate routes that various groups of Indians might have taken.

We will meet at 8:30 am in Mammoth Hot Springs on the first day and return to the trailhead early afternoon on the last day.

Backpacking—Old Faithful to the Bechler Region

August 11–17 (#817)

Location: Old Faithful/Bechler

Difficulty Level: 2+

Instructors: Angela Patnode

\$490 (Member's fee \$480)

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 8:30 am on the first day and end late afternoon the last day.



Grizzlies of Pelican Valley and the Upper Lamar River

August 16–20 (#821) Limit: 8

Location: Difficulty Level: 3+

Instructors: Kerry A. Gunther, M.S. & Tim Hudson, M.A.

\$350 (Member's fee \$340)

NEW

Join us for a backpacking trip through the Pelican Valley and Upper Lamar River, spectacular country and prime grizzly bear habitat. While hiking and camping you will learn about grizzly 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 in the Mammoth area at 8:30 am on the first day and end late afternoon on the last day.

Hoodoo Basin History Backpack

August 20–26 (#823) Limit: 8

Location: Lamar Valley/Sunlight Basin

Difficulty Level: 4

Instructors: Jim Garry, M.S. &

Angela Patnode

\$490 (Member's fee \$480)

NEW

The route from the Lamar Valley through Hoodoo and Sunlight Basins travels through an area not only of unsurpassed beauty but one rich in history. The trail follows or closely parallels the route that John Colter took through the park in 1807, that the tribes of the Great Basin used to get the bison hunting grounds of the Great Plains, and that the Nez Perce used in their flight from the US Army in 1877. As we follow in their footsteps, we will also pass places where ancient Americans hunted in the wake of the Ice Age, mountain men trapped beaver, and prospectors tried and failed to find gold. Even fictional characters have traveled this way as the great grizzly, Wahb, died in Death Gulch near the beginning of our route. Traversing the historical and literary landscape of the American West even as we traverse its wilderness, we will experience the whole west—at once richly historical and unmistakably wild.

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

Horsepacking: Backcountry Mud Pots & Hot Springs

August 26–29 (#825) Limit: 8

Location: Canyon

Instructors: Duncan Foley, Ph.D.,

Tory and Meredith Taylor

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

NEW

Join us for a four-day backcountry geology trip to visit some of Yellowstone's most varied and least visited mud pots and hot springs. We will ride in about 13 miles to base camp in the upper Broad Creek area, and then do day rides to Joseph's Coat Hot Springs and other hot spring systems. Class conversations will focus on the dynamic geology of the terrain that we will be crossing, and the nature 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 and 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 5:00 pm on the last day.

Eagle Peak Expedition

August 27–September 3 (#826) Limit: 8

Location: Yellowstone Lake/Absaroka Range

Difficulty Level: 4+

Instructor: Tim Hudson, M.A.

\$520 (Member's fee \$510)

NEW

At 11,358 feet, Eagle Peak is the highest point in Yellowstone National Park. Deep in the southeast corner of the park, close to the most remote point in the lower 48 states, and with no trails to the summit, the peak is very rarely climbed. Join us on this wilderness expedition to look over Yellowstone from the very top. Along the way, we will hone our backcountry skills and learn about the flora and fauna of this remote corner of Yellowstone. Beginning with a hike along the east shore of Yellowstone Lake, we will follow the upper Yellowstone toward the Thorofare before branching east up Mountain Creek to a high country base-camp from which we will attempt the summit. Successful or not, we will then cross the east border of the park at Eagle Pass and descend through the Washakie Wilderness to the trailhead.



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

Horsepacking: Wildlife Conservation

September 1–6 (#901) Limit: 8

Location: Pelican Valley to Lamar Valley

Instructors: Tory and Meredith Taylor

\$1495 (Member's fee \$1485)

NEW

Yellowstone is one of the few places in the lower 48 states to retain its full complement of historic wildlife species but some of these species are struggling and the future is in doubt. Join us in the land of the grizzly, the wolf, and the lynx as we explore the rich history and uncertain future of Yellowstone wildlife. Around the campfire and along the trail, we will discuss the threats posed by development, exotic species, global warming, and conflicts with human activities; changing cultural perceptions of wildlife; and the importance of Yellowstone to wildlife throughout the world. Between discussions, there will be plenty of free time to look for wildlife, chat with your fellow travelers, or just relax and enjoy the Yellowstone backcountry.

We will meet at 8:30 am on the first day and return to the trailhead late afternoon on the last day.

Backpacking in Grizzly Country—Heart Lake/Snake River

September 3–7 (#902)

See description on pg 35.

Old Faithful to Bechler History Backpack

September 7–13 (#904)

Limit: 8

Location: Old Faithful/Bechler

Difficulty Level: 2+

Instructors: Mike Yochim, Ph.D. candidate &

Angela Patnode

\$490 (Member's fee \$480)

NEW

The southwest corner of Yellowstone National Park is as rich in history as it is in waterfalls, meadows, and hot springs. Join us as we explore that history from native use of the area through the fur trade, gold prospecting, federal exploration parties, and the guardianship of the United States army. We will take a particularly close look at an episode closer to our own time—the 1920's proposal to dam and flood the Bechler region for Idaho potato farmers. The proposal prompted a nationwide battle over the meaning of the national park idea that still resounds today. As we visit one of the proposed dam sites and the expansive areas that would have been flooded, we will discuss the evolving meaning of the national park idea and the values it represents. Beyond education, there will also be plenty of time for quiet walking, good conversation, and simple enjoyment of the Cascade Corner in autumn.

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

Horsepacking the Nez Perce Trail

September 8–13 (#905)

Limit: 8

Location: Pelican Valley

Instructor: Tory and Meredith Taylor

\$1495 (Member's fee \$1485)

NEW

In the summer of 1877, in one of the most tragic episodes in the history of the American west, the United States Army chased several hundred members of the Nez Perce tribe on a meandering path from Idaho through western Montana and north toward Canada. Along the way, the Nez Perce fled through present-day

Yellowstone National Park and left an indelible mark on the park's history. Join us as we learn about the flight of the Nez Perce while retracing their actual route through the park. Along the way, we will discuss Nez Perce culture, the antecedents to the Nez Perce war, the evidence we use to reconstruct the route today, and the activities of the tribe during their time in the park. Trip participants will have the option to hike or ride horseback en route.

We will meet at the Pelican Valley trailhead at 8:30 am on the first day and return to the trailhead late afternoon on the last day.

Horsepacking: Autumn in Yellowstone

September 15–18 (#907)

Limit: 8

Location: Pelican Valley/Lamar River

Instructor: Tory and Meredith Taylor

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

NEW

Golden cottonwoods and willows along the river valleys and tawny grasses in the open basins make autumn in Yellowstone a special time of year in this very special place. This trip will be a celebration of Yellowstone as much as a study of the park's history, flora, fauna, and natural processes. We will put ourselves into the outdoor world and let natural patterns and processes teach us and reveal the coming of winter to the Yellowstone wilderness. The course curriculum will be informal and often determined by what we see or hear. Elk bugling may prompt a discussion of breeding behavior, bull weight loss, migration, elk management, or wildlife photography techniques and ethics. Bear sign or sightings may spark questions about hibernation, behavior, and diet. Experience the natural history of Yellowstone's fall season while horseback riding or hiking through the Pelican and Lamar Valleys.

We will meet at 8:30 am on the first day and return to the trailhead late afternoon on the last day.

Backpacking in Grizzly Country—Bechler

September 17–21 (#908)

See description on pg 35.

Black Canyon Geology Backpack

September 24–28 (#912)

Limit: 8

Location: Black Canyon

Difficulty Level: 3

Instructor: Robert Spoelhof, Ph.D. &

Melissa Pangraze

\$330 (Member's fee \$320)

NEW

In Black Canyon of the Yellowstone, the Yellowstone River has exposed some of the oldest and most diverse rocks in the park. Volcanism, mountain building, glaciers, and ancient seas are all on display as the river flows 21 miles through the Northern Range. In this backcountry geology course, we will closely examine these rocks through a combination of field observations and map-scale overviews. Along the way, we will also listen for bugling bull elk, look for migrating raptors, talk about the importance of the area for Yellowstone wildlife, and just relax in camp and enjoy the sounds of the Yellowstone River in autumn. Timed to coincide with the changing leaves of aspen and cottonwood, this course is a great way to experience the park in fall.

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



Instructor Profiles

Robert Anderson, Ph.D.

(*Aquatic Insects 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.

(*Exploring Yellowstone by Map & Compass; Secrets of the Lower Geyser Basin*) has worked for 27 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 33 years.

Gene Ball

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

Marc Bekoff, Ph.D.

(*Minding Animals: Emotions, Nature, Ethics, & Heart*) teaches biology at the University of Colorado and is the author or editor of many books including the *Encyclopedia of Animal Rights and Animal Welfare*, *Strolling with Our Kin*, *The Smile of a Dolphin: Remarkable Accounts of Animal Emotions*, *Minding Animals: Awareness, Emotions, and Heart*, and *The Ten Trusts* (with Jane Goodall). He and Dr. Goodall recently co-founded Ethologists for the Ethical Treatment of Animals/Citizens for Responsible Animal Behavior Studies.

Norman A. Bishop

(*Wolf Watching in Yellowstone; Ripple Effect: The Ecology of Wolf Restoration; Hellroaring Wolf Backpack*) 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 24 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*.

Steve Blakeley

(*Tally Ho!—A History of Yellowstone Transportation*) is currently manager of transportation at Old Faithful for Xanterra Parks and Resorts. He has enthusiastically guided Yellowstone visitors as a guide for the past twenty-six years in many capacities and loves sharing stories related to everything from stagecoaches to snowcoaches. Other interests include hiking, skiing and collecting antique Yellowstone post cards.

George Bumann, M.S.

(*The Mystery of Animal Motion; Autumn Wolf Ecology*) is an artist/naturalist with a background in wildlife research, ecology, cultural and natural history education. He has taught for various audiences since 1990 in areas such as drawing, field journaling, university field biology, ornithology, dendrology, and mammalogy. His writing and illustrations have appeared in several popular and scientific publications.

Meredith E. Campbell

(*The Art of Wildflower Identification*) 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 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 North American alpine ecosystems.

Eleanor Williams Clark, M.L.A.

(*Artistic Field Journals*) has kept journals of landscape projects, filled with observations, for 15 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.

Tim W. Clark, Ph.D.

(*Predator Conservation in the Greater Yellowstone Ecosystem*) has studied grizzly bears, mountain lions, and other wildlife in Greater Yellowstone for over 30 years. Tim is president of the Northern Rockies Conservation Cooperative, and professor of wildlife ecology and policy at Yale University. His research interests include conservation biology, natural resource policy, and the policy sciences. He has published eight books and over 300 articles. Among his books is *Carnivores in Ecosystems: The Yellowstone Experience*.

Lance Craighead, Ph.D.

(*Conservation of Grizzly Bears in North America*) is research director of the Craighead Environmental Research Institute (CERI) 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*.

Cathy L. Cripps, Ph.D.

(*The Secret Life of Yellowstone Mushrooms*) is a mycologist at Montana State University, where she teaches mycology courses and conducts research on fungi. She has studied Rocky Mountain mushrooms for 25 years, given numerous workshops on wild mushrooms, and published extensively, particularly on mycorrhizal fungi in aspen forests. Current research includes a National Science Foundation grant to survey alpine fungi on the Beartooth Plateau and in the Southern Rocky Mountains.

Paul K. Doss, Ph.D.

(*Introduction to Yellowstone's Geologic Landscapes; Yellowstone's Geoecosystem*) 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 22 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.

Terry Enk, Ph.D.

(*Mountain Dwellers of the Yellowstone Ecosystem; Plant Eaters of Yellowstone*) is currently the elk biologist with the New Mexico Department of Game and Fish. 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 Association 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.

Gary Ferguson

(*Writing the Wild*) has been a full-time freelance writer for nineteen years. He has written for numerous national magazines and is the author of thirteen books on nature and science, including *The Yellowstone Wolves: The First Year*. His 1997 title *Through the Woods: A Journey Through America's Forests*, was a starred selection in Kirkus Review, as well as a winner of the prestigious Lowell Thomas Award. Gary is a frequent speaker and writing instructor at universities and workshops across the country.

Duncan Foley, Ph.D.

(*Geysers, Mud Pots & Hot Springs; Horsepacking: Backcountry Mud Pots & 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 24 years, emphasizing both the geology of the Yellowstone volcano and the dynamic nature of hydrothermal features.

David Gaillard, M.E.S.

(*Wolf Recovery in the Northern Rockies*) is program associate for Predator Conservation Alliance, 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.

Robert Garrett, Ph.D.

(*The Ecology of Bison, Elk, & Wolves in Central Yellowstone*) is a professor of ecology at Montana State University, Bozeman. He has been conducting research on large mammal ecology, conservation, and management for approximately 25 years, with diverse projects including marine mammals, terrestrial predators and ungulates. He and his colleagues have developed an integrated ecological research program focused on the large mammals of central Yellowstone (elk, bison, wolves, grizzly bears) that is currently in its 12th year.

Jim Garry, M.S.

(*Spring Wildlife on the Northern Range; Bears: Bones, Signs & Stories; The Evolution, Ecology & Future of the Wolf Family; The Nez Perce in Yellowstone; Along the Yellowstone River with Lewis & Clark; The Bison of Yellowstone; The Fur Trade in Yellowstone; Hoodoo Basin History Backpack; Autumn Wildlife in 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*.

Barrie Gilbert, Ph.D.

(*Conservation of Grizzly Bears of North America*) is on the wildlife faculty (emeritus) at Utah State University. His research emphasizes bear behavior, bear-human interactions and the specific habitat needs of grizzly bears in conservation area designs. In 1996 he received the Giant of the Bear World Award from the Great Bear Foundation "for his lifetime dedication to bear conservation and research." Recent publications include contributions to book chapters, bear social learning and the role of bears in ecosystem maintenance.

Greg Gordon, M.S.

(*Backpacking in Grizzly Country*) has been teaching natural history field studies programs since 1992. Previously, he worked as a park ranger for five seasons. An internationally published author, his travels and writings range from the Himalayas to Patagonia. His latest book, *The Landscape of Desire*, explores our psychological relationship to wilderness.

Kerry A. Gunther, M.S.

(*Grizzly & Black Bear Ecology & Management; Grizzlies of Pelican Valley & the Upper Lamar*) 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 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* (1989) and *Drawn to Yellowstone: Artists in America's First National Park* (2002).

Henry Heasler, Ph.D.

(*The Yellowstone Volcano: A Restless Giant*) is the supervisory geologist for Yellowstone National Park. His areas of interest include geothermal systems, the geophysics of volcanic systems, terrestrial heat transport, and geologic mapping. His publications include numerous articles on the geothermal systems of Wyoming and a geologic road guide to the area east of Yellowstone. As a native of Wyoming, he has enjoyed Yellowstone for over 40 years.

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* (W.W. Norton) and *A Life in Hand: Creating the Illuminated Journal* (Peregrine Smith; new edition January 1999). Her new book *Walks with Sis: An Artist and Her Dog Take to the Hills* (W.W. Norton) appeared earlier this year.

Robin Hompesch, M.Ed.

(*Wolves in Montana—Conservation & Management of a Large Predator*) was appointed to the Montana Wolf Management Advisory Council to develop a wolf management plan for the Montana Department of Fish, Wildlife and Parks. The Council was specifically challenged to ensure the conservation of wolves in Montana at viable population levels, mitigate the impacts on livestock and big game hunting, and investigate appropriate funding sources for wolf management. Robin coordinates K-12 teacher workshops focusing on wildlife research and management at the Big Sky Institute—Montana State University and teaches a wildlife ecology class at Bozeman High School, Montana.

Doug Houston, Ph.D.

(*The Elk of Yellowstone*) served as a National Park Service research scientist in Grand Teton, Yellowstone, and Olympic National Parks and specialized in studies of the ecology and management of large grazing mammals. He is the author of *The Northern Yellowstone Elk* and co-authored *Yellowstone and the Biology of Time*.

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, where he leads courses for potential NOLS instructors and other educators. He is certified as a Master of the national Leave No Trace (LNT) program and holds a Master's degree in American Studies with an emphasis in nature writing.

Cheryl Jaworowski, Ph.D.

(*The Yellowstone Volcano: A Restless Giant; Geyser Basin Geology Backpack*) is an instructor of geoscience at Laramie County Community College and works as a seasonal geologist in Yellowstone National Park. Her scientific research and interests include volcanic tephra from Yellowstone's volcano, glacial geology, geologic mapping and the evolution of the landscape. She has enjoyed hiking and cross-country skiing in the Greater Yellowstone area for 20 years.

Alan Kesselheim

(*Words Inspired by Wilderness*) has spent 20 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 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.

Kyran Kunkel, Ph.D.

(*Predator-Prey Systems*) is a senior conservation biologist for the Turner Endangered Species Fund and an affiliate assistant professor at the University of Alaska, the University of Montana, and at Montana State University. Kyran served as the regional wildlife biologist for the Alaska Region of the National Park Service. He received his Ph.D. in wildlife biology from the University of Montana in 1997 and his M.Sc. in wildlife conservation from the University of Minnesota in 1991.

Earle Layser, M.S.

(*Yellowstone Waterfalls*) is a retired Forest Service biologist currently working as a natural resources consultant and free-lance writer out of Driggs, Idaho. His many publications include scholarly articles on botany, natural areas, grizzly bears, and forestry, and he has published two popular articles on Yellowstone waterfalls.

Susan Marsh, M.L.A.

(*Connected to the Land—The Human Spirit & Wild Yellowstone*) Susan is a writer and naturalist with a background in physical and biological science, landscape architecture, and planning. Her writing has appeared in *Orion*, *Northern Lights*, *American Nature Writing*, and *Talking River Review*, and has been anthologized in several collections. She edited the anthology *Stories of the Wild*, published in 2001. She is the winner of the 2003 Neltje Blanchan Memorial Award for literature inspired by the natural world.

Timothy R. McDermott, Ph.D.

(*Yellowstone's Odd Couple: Biotechnology & the Park Service; Some Like It Hot: Thermophilic Microorganisms of Yellowstone*) is an associate professor of soil and environmental microbiology in the Thermal Biology Institute at Montana State University. He teaches undergraduate and graduate courses on environmental microbiology, and conducts research on the microorganisms that thrive in Yellowstone's geothermal features. Dr. McDermott also has experience in bioprospecting with private companies.

Terry McEneaney

(*Waterfowl Identification & Ecology; Raptor Identification & Ecology*) is the staff ornithologist for Yellowstone National Park and a professional field ornithologist for nearly three decades. He first began birding Yellowstone in 1968. He has taught field ornithology courses throughout Montana and Wyoming, and is the author of *Birds of Yellowstone*, *The Uncommon Loon*, and *Birding Montana*. He is a past chairman and current member of the Montana Bird Records Committee, and former member of the Wyoming Bird Records Committee. He is currently working on a detailed book on the ecology of Yellowstone birds, and a scientific monograph on the Yellowstone trumpeter swan.

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.

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, the Cascades, Hawaii, and Japan. With Ken Pierce, Morgan developed major concepts and a model for the Yellowstone hot spot. Her current research in Yellowstone focuses on the geology and potential geologic hazards in Yellowstone Lake and the physical processes associated with caldera-forming eruptions and hydrothermal explosions.

Mike Murray

(*Discover Your Sky: Observing Techniques for Backyard Astronomers*) currently works as production manager for the Clark Planetarium in Salt Lake City. With over 26 years in astronomy education at a variety of museums and the NASA Space Grant program, he has written numerous articles for newspapers, magazines and the professional literature about popular astronomy. He also conducts presentations and workshops on amateur observing for astronomy clubs, museums, and star parties. Murray is the founder of the Southwest Montana Astronomical Society, past president of the Rocky Mountain Planetarium Association, and a member of the Astronomical League and the Salt Lake Astronomical Society.

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 eight 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.

Kerry Murphy, Ph.D.

(*Riddle of the Lynx*) is employed by the National Park Service 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 the wild cats of the Northern Rocky Mountains. He has published numerous scientific and popular articles on the ecology of carnivores.

Sandra Nykerk

(*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.

Pat O'Hara, M.F.R.

(*Autumn Landscape Photography*) has a master's degree in forest resources, and has been an environmental photographer and a leader in his profession for two decades. His contemporary travel schedule takes him to national and international locations, often to photograph remote parks and wilderness areas. His color photography has been showcased in 17 books, many on important conservation issues. Pat's work has been published extensively in magazines, calendars, greeting cards, posters, advertisements, and electronic mediums.

Melissa Pangraze

(*Autumn Day Hiking in Yellowstone; Backpacking courses*) 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 Leadership School since 1996.

Richard Parks

(*Fly-Fishing the Catch & Release Way—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.

Angela Patnode

(*Backpacking courses*) has been an outdoor educator for over 10 years, with the past six years instructing courses for the National Outdoor Leadership School (NOLS). She specializes in backpacking, mountaineering, skiing, and rock climbing and has published a guidebook on winter ecology for NOLS.

Ellen Petrick-Underwood, M.S.

(*Family Wonder Week*) currently living in Oregon, Ellen lived in Yellowstone for eight years serving as was the National Park Service's program manager for formal education (1994–2001). She holds degrees in Biology and Environmental Studies and is a certified secondary science teacher. She has taught, written curriculum, and managed education programs for twenty years, including work at the New Jersey School of Conservation, Weber State University, the U.S. Forest Service, Utah Division of Wildlife Resources, and the Ogden Nature Center.

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 University of Great Falls. He is author of *Central Rocky Mountain Wildflowers*, *Northern Rocky Mountain Wildflowers*, and is active in 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.

Steve Primm, M.A.

(*Predator Conservation in the Greater Yellowstone Ecosystem*) is a field director of the Gravelly Range Grizzly Project. His work has focused primarily on grizzly conservation in the U.S. Rockies, ranging from community-based conservation, to field research and backcountry food storage. Steve earned his master's degree at the University of Colorado where he completed an interdisciplinary thesis, "Grizzly Conservation in Greater Yellowstone". He has published academic articles on carnivore conservation and ecosystem management in conservation biology and policy sciences.

James Pritchard, Ph.D.

(*History of Wildlife in Yellowstone*) teaches the history of natural resource conservation and environmental literature at Iowa State University. He is the author of *Preserving Yellowstone's Natural Conditions: Science and the Perception of Nature* (1999), and co-author of *A Field Guide to Butterflies of the Greater Yellowstone Ecosystem* (2002).

Nancy Procter, M.Ed.

(*"Thirty Seven Days of Peril": The Truman Everts Story; Day Hiking the Wild Yellowstone; Day Hiking the Yellowstone Lake Area; Day Hiking the Cascade Corner*) worked as a National Park Service ranger-interpretor for six years, and is currently a naturalist/guide for the Yellowstone Association Institute. 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.

Robert Michael Pyle, Ph.D.

(*Coming to Terms with Yellowstone: A Writing Workshop in the Field*) writes independently from the Lower Columbia River in Washington. Former Northwest Land Steward for TNC and biologist in Papua New Guinea, he founded the Xerces Society and has received the Society for Conservation Biology's Distinguished Service Award. His books include *Wintergreen* (John Burroughs Medal), *The Thunder Tree, Where Bigfoot Walks* (Guggenheim Fellowship), *Chasing Monarchs*, *Walking the High Ridge*, and a hatch of popular butterfly books, and his column "The Tangled Bank" appears in *Orion Magazine*. He is a frequent teacher for colleges and seminars.

Leslie J. Quinn, M.Ed.

(*Old Times at Old Faithful; Ghost Hotels of Yellowstone; Yellowstone's Home Town; Mammoth Hot Springs; Wonderland's Serene Spot; History on Yellowstone Lake*) is interpretive specialist for Xanterra Parks & Resorts in Yellowstone. A park guide for 23 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, the Howard Eaton Trail, and the maritime history of Yellowstone Lake.

Anna-Louise Reysenbach, Ph.D.

(*Exploring Yellowstone's Microbes*) is a microbial ecologist who teaches at Portland State University, Oregon. Her research focuses on the ecology of microorganisms from high temperature environments. Over the past decade, her work has taken her to the thermal springs of Yellowstone National Park, Iceland, New Zealand, and the Azores, and in research submersibles to the deep-sea hydrothermal vents along the mid-oceanic ridges.

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.

Kevin Schneider

(*Yellowstone's Odd Couple: Biotechnology & the Park Service*) works as a park planner for Yellowstone National Park where he is assigned to two highly controversial issues: bioprospecting and winter use planning. For nearly three years, Kevin has been part of a Park Service-wide team producing a management plan to manage bioprospecting and benefits-sharing throughout the U.S. national parks.

Carolyn Sime, M.S.

(*Wolves in Montana—Conservation Management*) is a wildlife research biologist and the wolf planning coordinator for Montana Fish Wildlife & Parks and an architect of Montana's wolf conservation and management program. Carolyn assisted the Montana Wolf Management Advisory Council, a mix of live-stock producers, hunters, environmentalists, and other citizens. She has traveled throughout Montana to include people in the planning process, to discuss issues and craft management strategies, and to identify the benefits and challenges of managing Montana's recovered wolf population.

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, teaches the Yellowstone for Families program for the Yellowstone Association Institute, 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 the National Geographic video entitled *Return of the Wolf*.

Robert Smith, Ph.D.

(*The Grand Tour of Teton Geology*) is professor of geophysics and geology at the University of Utah, co-director of the Yellowstone Volcano Observatory, and author of *Window Into Earth: The Geologic Story of Yellowstone and Grand Teton National Parks* (Oxford University Press, 2000).

Robert W. Spoelhof, Ph.D.

(*Yellowstone Geology Hikes; Black Canyon Geology Backpack*) is a geologist, naturalist, and teacher who works alternately as a Park Service interpretive ranger and an instructor for the Yellowstone Association Institute. Bob also teaches an annual course at Calvin College on the geology of the national parks. Before working in Yellowstone, Bob spent 27 years as an exploration geologist specializing in the Rocky Mountain region.

Dan Stahler, M.S.

(*Mirror Plateau Wolf Backpack*) has studied wolves since 1996 and earned his degree studying the relationship between Yellowstone's ravens and wolves. He is currently the project biologist for the Yellowstone Wolf Project where he helps coordinate and direct research on wolves, their prey, and scavenger communities.

Peg Steunenberg

(*True to Life: The Art of Drawing Animals*) is a natural science illustrator 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 is the recipient of the Gold Award 2000 for scientific illustration from the San Francisco Society of Illustrators.

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; Flight of the Nez Perce Backpack*) is cultural anthropologist for Yellowstone National Park. She has worked eight years with the National Park Service, most of it at the Regional Office in Denver. There she helped parks consult with American Indians. At Yellowstone, Rosemary communicates with the park's 24 affiliated tribes, many of which have made official visits to the park.

Taylor Outfitting

(*Horsepacking trips*) is a horsepacking business owned and operated by Meredith and Tory Taylor of Dubois, Wyoming. Founded in 1980, Taylor Outfitting provides educational wilderness experiences in the Northern Wind River Range, Southern Absaroka Range, and Yellowstone National Park.

Meredith Taylor

(*Living with Wolves in Wyoming, Horsepacking trips*) is a writer, biologist, professional conservationist, and educator who has spent over 20 years working for the preservation of greater Yellowstone. Once named "Conservationist of the Year" by the Wyoming Wildlife Federation, she presently serves as the Yellowstone field director for the Wyoming Outdoor Council where she spends much of her time working to preserve wildlife migration patterns in the southern portion of the ecosystem. She is also a world-class campfire cook.

Tory Taylor

(*Horsepacking trips*) is the author of many books and articles on subjects as diverse as wildlife conservation, western history, outdoor ethics, and hunting. He has taught horsepacking, minimum impact camping, and Leave No Trace concepts for the National Outdoor Leadership School as well as for the Central Wyoming College. And he has worked directly on behalf of Wyoming wildlife for organizations such as the Wyoming Wildlife Federation and the Dubois Wildlife Association. For all of his wildlife conservation efforts, Tory was awarded the 2000 Budweiser Outdoorsman of the Year.

Bruce Thompson, M.S.T.

(*Wildlife Theater: Interpreting the Ecology of Yellowstone; Ecology Through the Lens: Celebrating Nature with Photography; The American Beaver: Engineer & Habitat-Maker*) operates ECOTRACS (Ecology-based Teaching, Resources, and Curriculum Services)—based in Salt Lake City. His work with students, teachers and land management agencies throughout the Intermountain West includes field and indoor natural science programs, interpretive training, educator workshops, instructional design and development, and education research. Bruce is an avid animal tracker and has been combining photography and natural science education for over twenty-five years.

Brian Thorpe, M.S.

(*This Place is for the Birds!*) has been interpreting Yellowstone for park visitors since 1988 for the National Park Service, Yellowstone National Park Lodges, and the Yellowstone Association Institute. He earned his masters degree with a thesis project examining neotropical migrant birds in Yellowstone National Park.

Linda Thurston, M.S.

(*Wolf Social Behavior*) is a wildlife biologist who worked for the gray wolf recovery project in Yellowstone from 1996 to 2001. For her M.S. thesis, she studied the denning behavior of wolves on Yellowstone's Northern Range. Linda does work for the Yellowstone National Park bison management team and a wolf research team in Alberta, Canada.

Rhea Topping

(*Fly-Fishing courses*) runs Mayfly Adventures Fly Fishing Schools on her casting pond near Washington, D.C. Rhea is the second woman to be certified by the Federation of Fly Fishers as a Master Casting Instructor worldwide and was named Woman of the Year by that organization in 1999. She has taught in The Mel Krieger International Schools in Argentina, Spain, and the US, and is author of a forthcoming book on fly-fishing etiquette, *Rod Rage*.

Nathan Varley, Ph.D. candidate

(*Wolf Nations: Dynamics of a Recovered Population; Black Canyon Wildlife Backpack; Wolves—Reality & Myth; Where the Wild Things Are: A Wildlife Basecamp*) is a naturalist, writer, and guide specializing in Yellowstone ecology. He has studied many wildlife species including gray wolves, mountain goats, grizzly bears, river otters, coyotes, moose, and pine marten. Nathan is currently a Ph.D. candidate in wildlife biology at the University of Alberta studying the effects of wolf recovery on the northern Yellowstone elk herd.

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.

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 Wildlife in Yellowstone; History of Yellowstone Photographers; Flight of the Nez Perce Backpack*) is the historian at Yellowstone National Park. His deep knowledge of the park is revealed in his books about Yellowstone, which include *A Yellowstone Album* (1997), and *Yellowstone Place Names* (1988). He is widely published in the early history of interpretation and transportation in the park.

Wilderness Medicine Institute

an institute of the National Outdoor Leadership School (*Wilderness First Aid; Wilderness First Responder*) 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.

Mike Yochim, Ph.D. candidate

(*Old Faithful to Bechler History Backpack*) is a doctoral student in geography at the University of Wisconsin-Madison and works in the National Park Service planning office in Yellowstone. He has spent much of the last 15 years educating visitors about the Yellowstone area. He has published papers on the history of winter use, elk management, and conservation in Yellowstone. His dissertation examines public interest group influence on national park policy, using several Yellowstone case studies.



Registration Information

Registration for Field Seminars, Backcountry Courses, and Wildlife Ed-Ventures

For programs taking place from May 1 to December 1, 2003, registration begins for Yellowstone Association members only on January 27, 2003, at 8:00 am, Mountain Standard Time (MST). Non-member registration begins February 3, 2003, at 8:00 am, MST. Most field seminars and backcountry courses are limited to 8 to 13 participants and early registration for these programs is advised.

Four Easy Ways to Register

Telephone: Call 307-344-2294, 8:00 am to 4:30 pm, Monday through Friday, MST. Summer hours (May 10-August 31) 8:00 am to 4:30 pm, seven days a week, MST.

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

Fax: Complete and fax the registration form on pg 49 to (307) 344-2485.

Mail: Complete and mail the registration form on pg 49 to: Yellowstone Association Institute, PO Box 117, Yellowstone, WY 82190.

Payment: We accept VISA, Discover, MasterCard, and personal checks. 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

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

Cancellation and Refund Policy

Payments 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 October 1 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.

We regret that the Institute cannot make exceptions to the refund policy for any reason, including, but not limited to, illness, travel delays, emergencies, or weather. We 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.

Information for Registered Participants

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



Registration for Lodging and Learning Programs

Registration for summer 2003 Lodging and Learning programs has begun. Most courses are limited to 12 or 13 participants and early registration is advised.

How to Register

To register or for more information, call (307) 344-5566, 8:00 am to 5:00 pm, seven days a week, MST.

Payment and Deposit

We accept VISA, Discover, MasterCard, and personal checks. A deposit of 50% of the program cost is required within two weeks of registration. The additional 50% of the program cost is due 30 days prior to arrival. Reservations will be cancelled if the 50% balance due is not received by that time.

Program Includes:

All programs include expert instruction by an Institute naturalist/guide, lodging, breakfast and box lunch daily, in-park transportation, and optional evening programs. In addition, the Roosevelt Rendezvous program includes all dinners and the Greater Yellowstone Wildlife Adventure includes two dinners. The fee does not include transportation to and from the location where the course begins. There is a \$10 discount for Yellowstone Association members.

Cancellation and Refund Policy

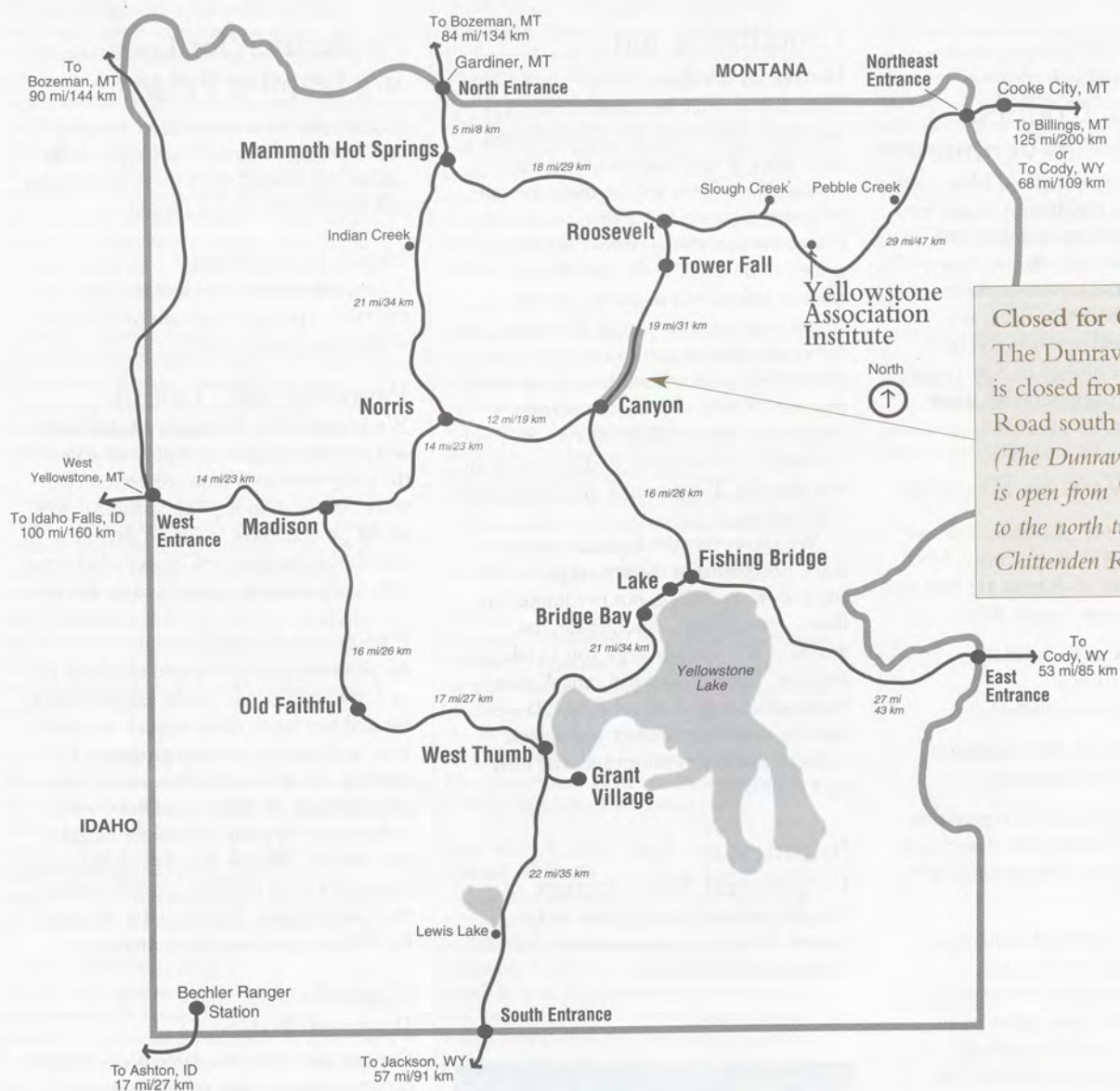
Deposits are fully refundable if cancellation occurs at least 30 days prior to arrival. Cancellations made within 30 days prior to arrival will result in a penalty of 50% of the program cost. We reserve the right to cancel a program up to 30 days prior to arrival. If we cancel you will receive a full refund.

We cannot make exceptions to the refund policy for any reason including but not limited to illness, travel delays, emergencies, or weather. We strongly recommend that you 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.

Information for Registered Participants

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

Travel Information



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

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

Directory

Camping & Park Information

National Park Service

Visitor Services 307-344-7381

www.nps.gov/yell/

Lodging, Campground,

Activity Bookings

Xanterra Parks & Resorts

307-344-7311

www.travelyellowstone.com

Wyoming Travel Information

Wyoming Division of Tourism

800-225-5996

www.wyomingtourism.org

General Information

Safety, Responsibility, and Risk

Your safety is important to the Institute. We have established procedures to reduce medical emergencies and to provide treatment of those that nonetheless occur. Staff are trained to follow these procedures and receive additional training in driver safety, wilderness medicine, and the use of portable radios to contact National Park Service emergency services.

But the Institute needs and expects you to help us in these efforts by taking an active role in protecting yourself. Before arriving for a program, you should be careful to choose a program that is appropriate to your medical and physical condition, fully and accurately inform the Institute of relevant medical conditions, consult with your personal physician about any relevant medical conditions, and secure all recommended clothing and equipment. Once you arrive, you need to continually monitor your condition and any external hazards, make prudent decisions, stay hydrated and well fed, and keep Institute staff informed of how you are doing.

Despite our combined efforts, Institute programs entail some inherent risks, many of which are associated with moderate to vigorous physical activity in high altitude mountainous or wilderness terrain. Even programs that include little activity and do not stray far from developed areas may take place in areas where advanced medical care may be significantly delayed.

Release from Legal Liability and Collection of Health Information

On receipt of your completed registration form we will send to you for your careful review an Assumption of Risks/Release of Liability form which must be signed by all participants, minors and adults.

If you are participating in a course that includes particularly strenuous activity or extended wilderness travel, we will also send to you a form by which we seek certain health information to assist us in identifying medical issues which may arise during your course or activity. All information on this form will remain confidential and will be reviewed only by Institute personnel or a licensed physician.

Lodging and Meals

Field Seminars: For field seminars based at the Lamar Buffalo Ranch, lodging is available for an additional fee of \$22 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 field seminars with the  symbol, lodging and food are not included in the tuition fee but rooms are set aside for course participants to reserve on their own at least 30 days in advance and the selected lodges all have restaurant facilities nearby.

Backcountry Courses: Participants in backpacking courses must bring and prepare their own meals. For horsepacking courses, the tuition fee includes all meals. Students must make their own arrangements for lodging.

Wildlife Ed-Ventures: For Wildlife Ed-Ventures a box breakfast is included but students must make their own arrangements for lodging. For Personal Ed-Ventures students must make their own arrangements for lodging and meals.

Lodging and Learning: Daily breakfast and box lunch are included in the cost of each Lodging and Learning package. In addition, the Roosevelt Rendezvous program includes all dinners and the Greater Yellowstone Wildlife Adventure includes 2 dinners.

Transportation to and from Yellowstone

For all Institute programs, students must arrange their own transportation to and from the location where the program begins. For those arriving by air, we recommend renting a car or contacting the registrar for information on public transportation.

Transportation during Institute Programs

Field Seminars and Lodging and Learning: The Institute's 15-passenger vehicles will be used for group transportation once a program begins.

Backcountry Courses: For backcountry courses that require a vehicle shuttle, an Institute vehicle may be available but car-pooling may be necessary in some cases.

Wildlife Ed-Ventures: Institute vehicles are available for Wildlife Ed-Ventures but not Personal Ed-Ventures.

Academic Credit

For some field seminars, undergraduate credit is available from Colorado State University (CSU) or Montana State University (MSU). 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-\$135 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

For field seminar participants, the Institute will gladly provide a letter of course completion, which includes the course title, description, and hours of instruction.

The Institute Scholarship Fund

The fund was established in 1999 to encourage teachers and other educators to attend our courses and share the knowledge they gain with a wider audience. Donations to the fund are kept in a restricted account and the annual interest is used to provide 50% scholarships for all field seminars and backcountry courses except wilderness first aid and horsepacking. Please contact us for a scholarship application.

General Information

Location

All Lodging and Learning programs are held at park hotels. Field seminars may be based at either the Institute's Lamar Buffalo Ranch field campus (see facility description on pg 48 and map on pg 46) or at a park hotel. Backcountry courses take place in the wilderness in and around Yellowstone National Park. Course locations are included in each program description.

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 only. However, children 16 years and older may participate if accompanied by a participating adult and pre-approved by the Institute program manager and the course instructor. Approval is determined on the basis of course content and activities. Inquire when you register.

Pets, RVs, and Camping

To avoid disturbing other students and resident wildlife, pets are not allowed at the Buffalo Ranch field campus or on any Institute courses.

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.



The Lamar Buffalo Ranch Field Campus



Located in Yellowstone's scenic Lamar Valley (see map on pg. 46), the historic Buffalo Ranch field campus is the year round base for many of the Institute's field seminars. Peaceful and spectacular home to wolves, bears, elk, and bison, Lamar Valley is an excellent place to experience and learn about Yellowstone.

The facility includes simple and comfortable accommodations in log guest cabins, a heated bathhouse with showers and rest rooms, and a common building with classrooms and kitchen. Students are expected to bring a sleeping bag and pillow and prepare their own meals in

the fully equipped kitchen. Cabins are available to participants on a first-come, first-served basis and the fee is \$22 per night per person. Participants share space in cabins that include three single beds, a propane heater, and reading lights. The cabins do not have electrical outlets or plumbing. Early reservations are advised.

If you are participating in a course based at the Buffalo Ranch but prefer alternative accommodations, National Park Service campgrounds and park hotels are nearby. Campsites are available on a first-come, first-served basis. Space is limited in park hotels and reservations should be made as early as possible.



Please duplicate this form for multiple registrations.

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?

- ☐ I have read the refund policy on page 45, and understand to receive a refund, I must cancel at least 60 days before a course and pay a \$35 course processing fee.
- ☐ Check here if you are a current member of the Yellowstone Association or are joining now (see pg 50).

Course #	Title	Dates	Tuition

Lodging:

- ☐ I want to stay at the Institute cabins at Lamar the following nights at \$22/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 \$22 per person per night

Membership (optional)

Fill out membership information (see right)

Additional donation to Institute Scholarship Fund

See fund description on pg 47.

Total Enclosed \$

Payment by: ☐ Check ☐ MasterCard ☐ Visa ☐ Discover

CREDIT CARD #	EXP. DATE
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CARD VERIFICATION # (the 3-digit number located on the back of your card to the right of the card #)

SIGNATURE

YAI-2003

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

Please list names and ages of children for family classes:

Would you like to help us save postage and paper?

- ☐ Check here if you would like to view this general course information online: suggested clothing and equipment list, facility information, maps, and code of ethics.

<http://www.YellowstoneAssociation.org>
(Detailed course information will be mailed to each participant at least four weeks prior to the class.)

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



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, 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?

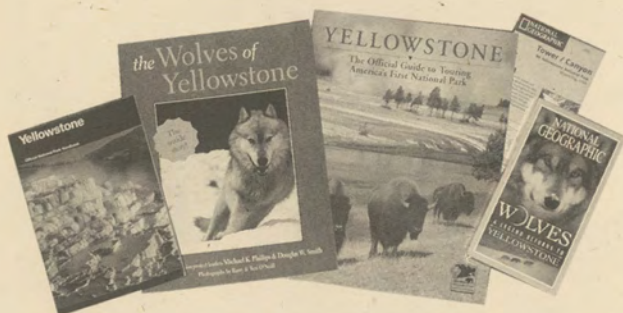
As a member, you will be entitled to the following benefits:

- 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, by mail, or at the website: www.YellowstoneAssociation.org)
- 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.

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

ADDRESS SERVICE REQUESTED

FIRST CLASS