

Yellowstone Association
Institute



Summer 2004

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.

Personal Wildlife Ed-Ventures are tailored natural history tours for families and other small groups. An experienced Institute instructor will meet you at a predetermined location for a private introduction to park wildlife and ecology.

Group Programs 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 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.

Yellowstone Association Staff

Pat Cole
Executive Director

Jeff Brown
Director of Educational Operations

Jenny Golding
Institute Program Manager

Rebecca Pardo
Institute Office Manager

Park Representative

Diane Chalfant
Chief of Interpretation

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➤ Denotes a NEW class.

① Denotes a ONE-DAY class.

★ Denotes classes where UNIVERSITY CREDIT is pending.

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> Denotes a NEW class.

① Denotes a ONE-DAY class.

* Denotes classes where UNIVERSITY CREDIT is pending.

Lodging and Learning Programs

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Offered Sunday to Wednesday and Thursday to Sunday from May 16 to June 9

Trails Through Yellowstone 5

Offered Weekly (Tuesday to Saturday) from May 25 to September 25 except the week of July 13

Yellowstone for Families 6

Offered twice a week at Mammoth Hot Springs and twice a week at Grant Village (Monday to Friday and Friday to Tuesday) from June 7 through August 27. There will be no Grant program beginning Monday June 7 or Friday June 11

Roosevelt Rendezvous 6

Offered Sept 10-14, Sept 14-18, Sept 18-22, and Sept 22-26

Fall Wolf & Elk Discovery 6

Offered Sunday to Wednesday and Thursday to Sunday from September 12 to October 3

Personal Wildlife Ed-Ventures 7

Offered May 15 to Labor Day

Group Programs 7

Available year-round

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Design: A. Pollard, Livingston, MT

Lodging and Learning Programs at Park Hotels

In Cooperation with the Park County Travel Council

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

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

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

For reservations, please contact Yellowstone National Park Lodges at 307-344-5566. For more information on registration, see pg. 42.

Spring 2004 Program:

Spring Wolf & Bear Discovery

Discover Yellowstone's wolves and bears with an Institute wildlife biologist. Field activities include optional sunrise and sunset trips to look for bears and wolves and short hikes in bear and wolf habitat. Two classroom presentations will focus on the behavior, ecology, and conservation of these charismatic carnivores.

Dates:

Offered Sunday to Wednesday and Thursday to Sunday from May 16 to June 9

Maximum Group Size: 12

Minimum Age: 12

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

Package Price Includes:

- Expert instruction by Institute wildlife biologist
- Breakfast and box lunch daily
- In-park van transportation
- Three nights lodging with private bath at Mammoth Hot Springs
- Optional evening programs

Rates:

\$405 Double Occupancy
(Member's rate \$395)

\$547.50 Single Occupancy
(Member's rate \$537.50)

Summer 2004 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:

Weekly (Tuesday to Saturday) from May 25 to September 25 except the week of July 13.

Maximum Group Size: 12

Minimum Age: 12

Activity Level: Moderate (4 to 8 miles of hiking per day)

Package Includes:

- Expert instruction by Institute naturalist/guide
- Lodging with private bath at Mammoth Hot Springs (two nights) and Grant Village (two nights)
- Breakfast and box lunch daily
- In-park transportation
- Optional evening programs

Rates:

\$559 Double occupancy
(Member's rate \$549)

\$751 Single occupancy
(Member's rate \$741)



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 (Monday to Friday and Friday to Tuesday) from June 7 through August 27. There will be no Grant program beginning Monday June 7 or Friday June 11.

Maximum Group Size: 13

Audience: The program is designed for families with children ages 8 to 12 but can accommodate children of other ages. Call 307-344-5566 for more information.

Activity Level:

The Grant and Mammoth programs beginning Monday are each rated Easy (1 to 3 mile hikes and walks). The Grant and Mammoth programs beginning Friday are rated Moderate (3 to 5 mile hikes and walks).

Package Includes:

- Expert instruction by Institute naturalist/guide
- Lodging with private bath at either Mammoth Hot Springs or Grant Village (four nights)
- Breakfast and box lunch daily
- In-park van transportation
- Optional evening programs

Rates:

\$542 Double occupancy
(Member's rate \$532)

\$732 Single occupancy
(Member's rate \$722)

\$328 Each Child
(Member's rate \$318)

Fall 2004 Programs:

Roosevelt Rendezvous

Join us to discover Yellowstone's brief beautiful autumn, from the arresting bugle of bull elk to the fall colors 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 2004 Roosevelt Rendezvous!

Dates:

Sept 10-14, Sept 14-18, Sept 18-22, and Sept 22-26

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.

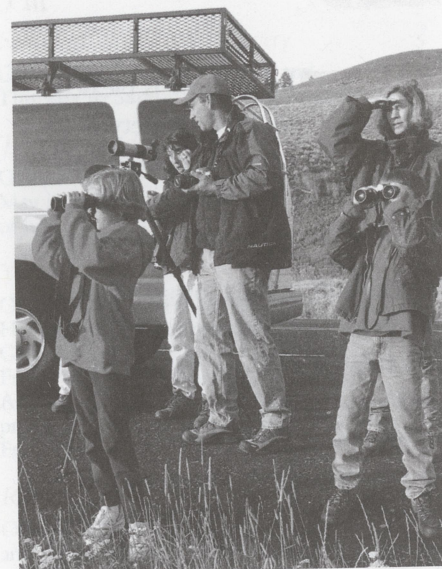
Package Includes:

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

Rates:

\$530 Double occupancy
(Member's rate \$520)

\$640 Single occupancy
(Member's rate \$630)



Fall Wolf & Elk Discovery

Join an Institute wildlife biologist to discover wolves and elk, Yellowstone's marquee predator and prey species. Autumn is elk mating season and we will take plenty of time to enjoy and discuss the dramatic displays of mating bulls. Wolves are more elusive in fall but sunrise and sunset wildlife watching trips will give us a good chance of observing wolves in the wild. Other activities include short hikes in wolf and elk habitat and classroom presentations on the behavior, ecology, and management of both species.

Dates:

Offered Sunday to Wednesday and Thursday to Sunday from September 12 to October 3

Maximum Group Size: 12

Minimum Age: 12

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

Package Includes:

- Expert instruction by Institute naturalist/guide
- Lodging with private bathroom at Mammoth (three nights)
- Breakfast and box lunch daily
- In-park van transportation
- Optional evening programs

Rates:

\$405 Double occupancy
(Member's rate \$395)

\$547.50 Single occupancy
(Member's rate \$537.50)

For reservations, please contact Yellowstone National Park Lodges at 307-344-5566. For more information on registration, see pg. 42.

Personal Wildlife Ed-Ventures & Group Programs



Personal Wildlife Ed-Ventures

Personal Wildlife Ed-Ventures are tailored natural history tours for families and other small groups.

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. An experienced Institute instructor will meet you at a predetermined location 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.

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

Dates:

May 15 to Labor Day

Length: Approximately 8 hours

Rates: Flat rate of \$350 for up to 10 people
(Member's rate \$340)

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

Group Programs

Let the Institute provide a tailored educational program for your group in the wildest classroom on earth. Experienced Institute instructors work with non-profit organizations, university programs, alumni organizations, families, and similar groups to design educational programs that meet the particular needs of the group. Day and overnight programs for groups of 10 or more participants are offered throughout the Yellowstone area. Group Programs are available at the Lamar Valley Buffalo Ranch field campus in November, December, and August, or in cooperation with private lodging facilities year-round.

Group Programs are usually scheduled four to six months in advance. To inquire about a possible program, please contact our Program Manager, Jenny Golding, at 406-848-2169 or jgolding@yellowstoneassociation.org.



2004 Field Seminars

Waterfowl Identification & Ecology

April 30-May 2 (#501)

Limit: 8

Location: Gardiner, Montana

Credit Pending

Instructor: Terry McEneaney

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

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 at the North Entrance Education Center in Gardiner, Montana, at 7:30 pm for an introductory lecture on the first day and end mid-afternoon the last day. Rooms have been set aside in Gardiner—contact registrar for reservation information.

The Big Three: Lions, Wolves, & Grizzly Bears

May 1-4 (#502)

Limit: 12

Location: Gardiner, Montana

Instructors: James Halfpenny, Ph.D.,

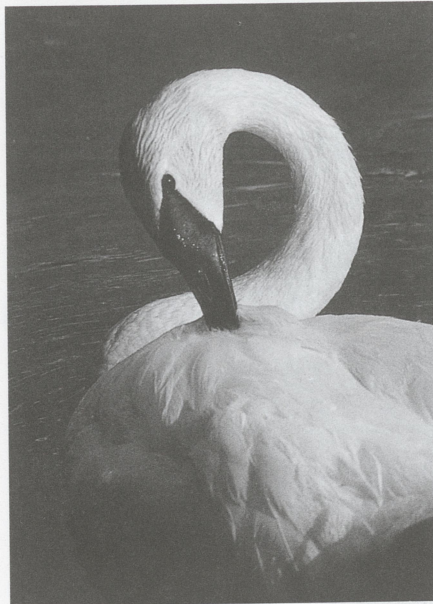
Kerry Murphy, Ph.D., & Jim Garry, M.S.

\$215 (Member's fee \$205)

NEW

Nothing in Yellowstone captures the human imagination more powerfully than large wild carnivores. Join three wildlife ecologists to compare and contrast Yellowstone's big three carnivores - lions, wolves, and grizzly bears. Each day will be led by a different ecologist: Kerry Murphy on lions, Jim Halfpenny on wolves, and Jim Garry on bears. In between sunrise and sunset wildlife watching trips, there will be a mix of classroom presentations and field trips.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 7:00 pm for an introductory lecture on the first day and end late afternoon the last day. Rooms have been set aside in Gardiner—contact registrar for reservation information.



Wildlife Watching in Grizzly Country

May 5-7 (#503)

Limit: 12

Location: Gardiner, Montana

Instructor: Gene Ball

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

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 at the North Entrance Education Center in Gardiner, Montana, at 10:00 am on the first day and end with an optional evening outing on the last day. Rooms have been set aside in Gardiner—contact registrar for reservation information.

Spring Wildlife on the Northern Range

May 8-10 (#504)

Limit: 12

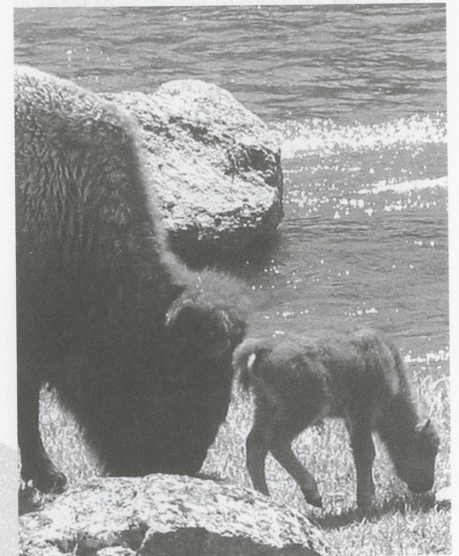
Location: Gardiner, Montana

Instructor: Jim Garry, M.S.

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

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 at the North Entrance Education Center in Gardiner, Montana, at 9:00 am on the first day and end late afternoon on the last day. Rooms have been set aside in Gardiner—contact registrar for reservation information.



Wolf Nations: Dynamics of a Recovered Population

May 9-11 (#505) *Limit: 12*

Location: Gardiner, Montana

Credit Pending

Instructor: Nathan Varley, Ph.D. candidate
\$200 (Member's fee \$190)

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 include 1 to 5 mile off-trail hikes to observation points.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:00 am on the first day and end late afternoon on the last day. Rooms have been set aside in Gardiner—contact registrar for reservation information.

Complete Wildlife Photography: Art, Ecology & Stewardship

May 11-13 (#506) *Limit: 12*

Location: Gardiner, Montana

Credit Pending

Instructor: Pete Bengeyfield, M.S.

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

NEW

The complete wildlife photographer is a mix of artist, technician, wildlife ecologist, and steward, as familiar with wildlife behavior, the character of the land, and photographic ethics as with shutter speed, lenses, and lighting. Join us to learn and practice the broad array of skills necessary to capture the living essence of animals and the places where they live. The course is for advanced beginner to intermediate amateurs who have a strong working familiarity with their equipment.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:30 am on the first day and end late afternoon on the last day. Rooms have been set aside in Gardiner—contact registrar for reservation information.

The Wolves of Yellowstone

May 13-15 (#507) *Limit: 12*

August 31-September 2 (#821) *Limit: 12*

September 30-October 2 (#914) *Limit: 12*

October 7-9 (#1002) *Limit: 12*

Location: Gardiner, Montana

Credit Pending

Instructors: Greg Wright, M.S.

& George Bumann, M.S.

\$215 (Member's fee \$205)

NEW

Are you intrigued by wolves and hungry to learn more? This course will satisfy even the biggest appetite for wolf knowledge and experience. After a comprehensive overview of wolf evolution, behavior, communication, and predation, we will closely examine the Yellowstone wolf population including the history of Yellowstone wolf restoration, current status of the population, and the relationship of Yellowstone wolves to prey species, scavengers, and other carnivores. There will be plenty of time in the field to observe wolves and prey, visit the carcass of an animal killed by wolves, and explore wolf habitat.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 9:00 am on the first day and 4:00 pm on the last day. Rooms have been set aside in Gardiner—contact registrar for reservation information.

Wilderness First Aid

May 19-20 (#508) *Limit: 24*

November 13-14 (#1101) *Limit: 24*

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Wilderness Medicine Institute Staff

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

Do you spend a lot of time in the outdoors? Have you ever wondered how you would respond to a backcountry emergency? This 16-hour certification course is ideal for hikers, skiers, and outdoor professionals who want to learn the basics of emergency care in remote settings. Some of the topics to be addressed are patient assessment, shock, wilderness wounds, fractures and dislocations, hypothermia, heat illness, altitude illness, and bites and stings. Emphasis is placed on learning the principles of medical care rather than memorizing information. May be used to re-certify as a Wilderness First Responder. No previous certification is required.

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



Wolf Watching in Yellowstone

May 22-24 (#509)

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Norman A. Bishop

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

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 at the Lamar Buffalo Ranch at 9:00 am on the first day and end at 3:00 pm on the last day.

Limit: 12

The Ecology of the Greater Yellowstone Grizzly Bear

May 22-24 (#510)

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Doug Ouren, Ph.D. candidate

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

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

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

Limit: 12

Spring Returns to Yellowstone

May 22-24 (#511)

Location: Lake

Instructor: Jim Garry, M.S.

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

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

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

Limit: 12

In the Bear's Den: An Introduction to Bear Denning & Hibernation

May 25 (#512)

Location: Gardiner, Montana

Instructor: Kerry Gunther, M.S.

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

NEW

Join us to learn about bear denning behavior and hibernation physiology. After a classroom overview, we will head into the field on a daylong hike to an unoccupied bear den. During lunch and at rest breaks, there will be informal discussions about bear behavior, food habits, habitat use, predation, bear-human interactions, and nuisance bear management. Pack a lunch and bring rain gear in case of inclement weather. Participants should be prepared for an 8-mile hike with a 500-foot elevation gain.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:00 am on the first day and end at the trailhead by 5:00 pm on the last day.

Limit: 12





Mammal Tracking: Interpreting Tracks, Scat & Other Signs

May 25-28 (#513) *Limit: 12*

July 12-15 (#716) *Limit: 12*

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: James Halfpenny, Ph.D.

\$290 (Member's fee \$280)

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 at the Lamar Buffalo Ranch 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.

From Bison to Bighorn: The Hoofed Mammals of Yellowstone

May 26-28 (#514) *Limit: 11*

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Harold Picton, Ph.D.

& Terry Enk, Ph.D.

\$215 (Member's fee \$205)

NEW

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: mule deer, pronghorn antelope, bighorn sheep, mountain goats, moose, elk, bison, black bears, and grizzly bears.

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

Mountain Dwellers of the Yellowstone Ecosystem

May 31-June 2 (#516) *Limit: 12*

Location: Lamar Buffalo Ranch

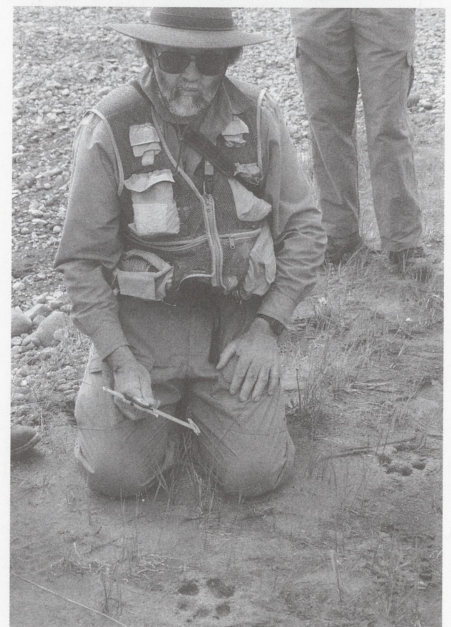
Credit Pending

Instructor: Terry Enk, Ph.D.

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

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 at the Lamar Buffalo Ranch at 9:00 am on the first day and end at 3:00 pm on the last day.





Ripple Effect: The Ecology of Wolf Restoration

May 31-June 2 (#517)

Limit: 12

July 1-3 (#701)

Limit: 12

August 4-6 (#804)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Norman A. Bishop

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

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 at the Lamar Buffalo Ranch at 9:00 am on the first day and end at 3:00 pm late afternoon on the last day.

Mammals Great & Small

June 3-6 (#602)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Don Streubel, D.A.

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

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 at the Lamar Buffalo Ranch at 8:30 am on the first day and end late afternoon on the last day.

Grizzly Bear Ecology & Management

June 3-6 (#603)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Sue Consolo Murphy, M.S.

& Mark Haroldson

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

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 at the Lamar Buffalo Ranch 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 Yellowstone Volcano: A Restless Giant



June 4-6 (#604)

Limit: 11

Location: Lake

Credit Pending

Instructors: Henry Heasler, Ph.D.

& Cheryl Jaworowski, Ph.D.

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

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 mid afternoon on the last day. Rooms have been set aside at Lake—contact registrar for reservation information.



The Sheep Eater Indians of Greater Yellowstone

June 5-7 (#605)

Limit: 24

Location: Dubois, Wyoming

Credit Pending

Instructor: Lawrence Loendorf, Ph.D.

\$355 (Member's fee \$345)—Tuition includes lodging and meals

NEW

As recently as the late 1800's, bands of Sheep Eater Indians traveled out of Yellowstone Park each winter to hunt bighorn sheep in the foothills of the Wind River Range. Join us at extraordinary Trail Lake Ranch to explore the rich culture of the Sheep Eaters and the densest concentration of Indian cultural sites in Greater Yellowstone. Field trips will visit remnants of wooden sheep traps and drive lines as well as a number of rock art sites. In the classroom and in the field, we will explore the tribe's history, culture, hunting techniques, and sophisticated use of bighorn sheep for tools, clothing, and food. Trail Lake Ranch sits on the flanks of the Wind River Range facing north toward the Absaroka Mountains and Yellowstone Park.

We will meet at the Trail Lake Ranch near Dubois, Wyoming, at 8:30 am on the first day and end late afternoon on the last day.

Wolf Social Behavior

June 7-9 (#606)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Linda Thurston, M.S.

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

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 Buffalo Ranch 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*.

Bears: Bones, Signs & Stories

June 7-10 (#607)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: James Halfpenny, Ph.D.

& Jim Garry, M.S.

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

Ursophiles (Greek for "bear lovers") unite! Supplement your knowledge of bears with a unique pair of instructors. In lectures and 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 at the Lamar Buffalo Ranch at 9:00 am the first day and end late afternoon on the last day. Fee includes \$20 for course materials.

Discovering Yellowstone Lake

June 9-11 (#609)

Limit: 12

Location: Lake

Instructor: Leslie Stoltz

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

NEW

Why do so many longtime Yellowstone visitors say that Yellowstone Lake is their favorite place in the park? Learn the answer with this three day mix of interpretive walks and talks. With Yellowstone Lake and the Absaroka Mountains as our backdrop, we will learn about the active volcanic processes on the floor of the lake, the suite of predators and scavengers that depend on the lake's population of native cutthroat trout, and the rich human history of the area, from ancient lakeside campsites to the Lake Hotel's colorful stagecoach era. Guest speakers will present recent findings on all of these facets of the area. We will spend a part of each day exploring the Lake during walks of 3 to 5 miles.

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



Spring Wildflowers

June 11-12 (#611)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Jennifer Whipple, M.A.

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

The northern portion of Yellowstone National Park is home to an extraordinary variety of wildflower habitats including the sagebrush steppe of Lamar Valley, the dry hills around the North Entrance, and the sub-alpine meadows of the Washburn Range. Join us to learn to recognize wildflower families, genera, and species, including some that are rarely seen in the park. Many of the early blooming wildflowers, such as bitterroot and calypso orchid, will be the target species. We will also discuss wildflower lore, the influence of wildlife, and factors such as climate and bedrock that determine the park's vegetation. Participants should be prepared for many short walks up to one mile in length. Shoes appropriate for wet areas are recommended.

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



The Evolution, Ecology & Future of the Wolf Family

June 11-13 (#612)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: James Halfpenny, Ph.D.

& Jim Garry, M.S.

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

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 Halfpenny, 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 signs 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 at the Lamar Buffalo Ranch at 9:00 am on the first day and end about 5:00 pm on the last day. Fee includes \$20 for course materials.

Birding for Beginners

June 12-13 (#613)

Limit: 12

Location: Lake

Instructor: Leslie Stoltz

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

NEW

Looking and listening for birds in an outdoor setting is fascinating, challenging, and just plain fun! For some the biggest hurdle is just getting started. What type of binoculars should I buy and how do I use them? What are the best places and times to find birds? When I see a bird, how do I determine what species it is? An informal evening presentation and slide show will address these questions and review some basic natural history. The following day will be spent in the field practicing our identification skills, observing birds in different habitats, learning about nesting behavior, listening for songs, and just enjoying being outside in Yellowstone.

We will meet in the Lake area at 7:30 pm the first day and after an early start, end about 2:00 pm the last day. Rooms have been set aside at Lake—contact registrar for reservation information.

Yellowstone Time Travel —Hiking into the Geologic Past

June 12-15 (#614)

Limit: 12

Location: Mammoth Hot Springs

Credit Pending

Instructor: Robert W. Spoelhof, Ph.D.

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

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 Mammoth for an illustrated geology presentation.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 7:00 pm on the first day and end late afternoon on the last day.

In Celebration of Birds

June 18-19 (#616)

Limit: 12

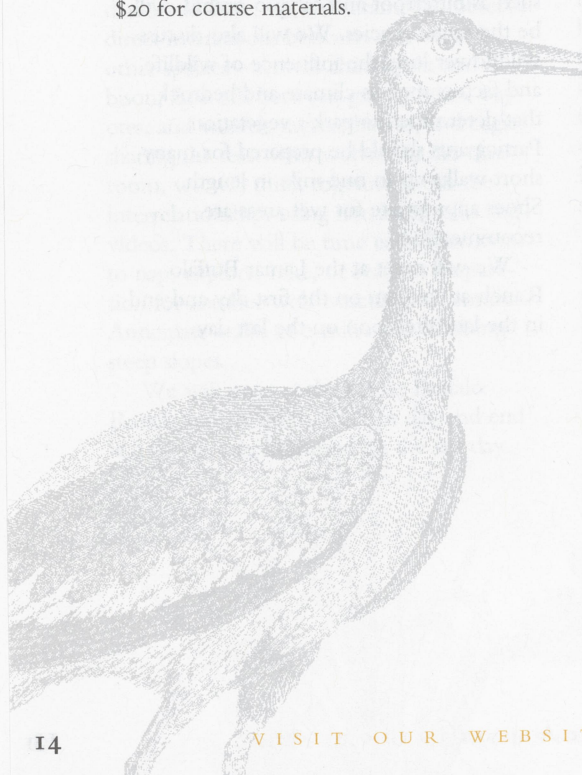
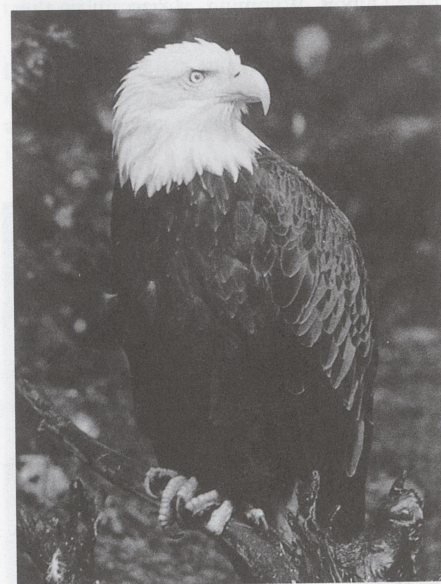
Location: Old Faithful

Instructor: Katy Duffy, M.S.

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

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.



Nature Photography in Yellowstone: The Digital Image

June 18-20 (#617)

Limit: 11

Location: Mammoth Hot Springs

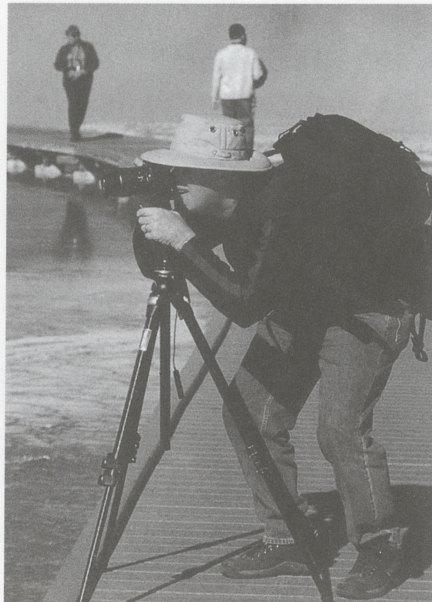
Credit Pending

Instructor: Sandra Nykerk

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

Using the many photographic opportunities in Yellowstone National Park as our inspiration, this three-day photographic workshop is designed to facilitate the process of transitioning into the realm of digital photography. All aspects of the digital workflow from pixels to prints will be addressed, beginning with image capture with either a digital camera or scanner and moving through the process to final printing options. Lecture topics will include building the digital vocabulary, concept definitions, the differences between film and digital cameras, resolution, file formats, storage media and archiving, and alternatives for producing the final print. Hands-on experience in the field will be integrated with classroom discussions to allow for practice of our new digital skills. Students do not need to have a digital SLR to benefit from this course, but a thorough understanding of basic photographic principles and familiarity with your equipment will be assumed. There will be an opportunity to have digital prints produced through a local service during this program.

We will meet at the North Entrance Education Center in Gardiner, Montana, 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 digital prints.



Predator Conservation in the Greater Yellowstone Ecosystem

June 19-20 (#618)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Sieve Primm, M.A.

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

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.

A Trail Through Leaves— The Art of the Field Journal

June 19-22 (#619)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Hannah Hinchman

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

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 at the Lamar Buffalo Ranch at 9:00 am on the first day and end at noon on the last day.

Wildflowers for Beginners

June 20 (#620)

Limit: 12

Location: Mammoth Hot Springs

July 3 (#703)

Limit: 12

Location: Lake

Instructor: William C. Edwards, Ph.D.

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

Over 1,000 different kinds of plants have been identified in the Greater Yellowstone Ecosystem, adding to the visual splendor of the park. 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 2 miles at an elevation of over a mile above sea level.

For the Mammoth class, 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. For the Lake class, we will meet in the lobby of the Lake Hotel at 8:30 am, returning by 5:00 pm.

Wolves—Reality & Myth

June 20-22 (#621)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nathan Varley, Ph.D. candidate
\$140 (Member's fee \$130)

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 at the Lamar Buffalo Ranch at 7:00 pm on the first day and end at 3:00 pm on the last day.

Fang & Flesh: Hunter & Hunted in Yellowstone

June 23-25 (#623)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

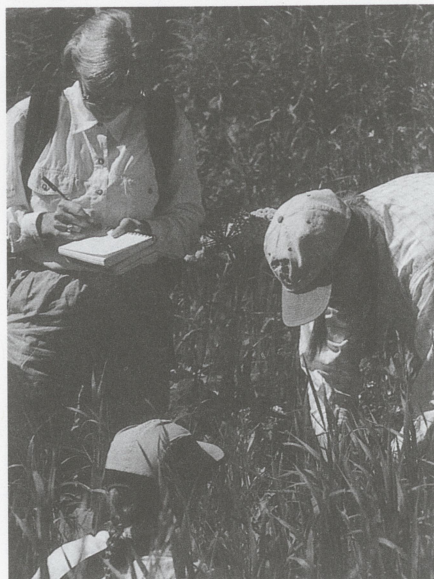
Instructor: Greg Wright, M.S.
& Kyran Kunkel, Ph.D.

\$215 (Member's fee \$205)

NEW

Little in Yellowstone evokes more powerful emotion than watching predators in action—stalking, chasing, killing, and consuming prey. This course explores the primeval dance of life and death between predator and prey including predator hunting behavior, prey escape strategies, and the cascading effects of predators on prey, other predators, scavengers, even vegetation. Case studies will focus on the wolves of Isle Royale, Glacier, and Yellowstone National Parks. Field trips will emphasize wolf/prey observation and examination of a wolf-killed carcass.

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



Wild Edible Plants & Medicinal Herbs

June 23-25 (#624)

Limit: 12

Instructor: Wayne Phillips

August 21-23 (#815)

Limit: 12

Instructor: Robyn Klein, Herbalist A.H.G.

Location: Squirrel Meadows, Targhee
National Forest, Idaho

Credit Pending

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

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 Flag 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.

The Art of Wildflower Identification

June 23-25 (#625)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Meredith E. Campbell

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

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 at the Lamar Buffalo Ranch at 8:30 am on the first day and end at 3:00 pm on the last day.

Learning Birds by Sound

June 25-27 (#626)

Limit: 8

Location: Lamar Buffalo Ranch

Instructor: Terry McEneaney

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

One of the most pleasant features of birds is the sound they make. The most noticeable sounds in the spring are the songs of the perching birds. However, birds make a variety of other sounds, too: calls, chip notes, vocal clucks, quivering, fluttering, gaping, and even flying noises. If you can identify birds by sight, but are interested in identifying more birds by the sounds they make, then this course is for you. Birders with little, if any, experience in bird sound identification will learn how to identify the sounds of approximately 50 species of birds. However, 30 species will be emphasized to form a sound learning foundation. This course is not easy and requires tremendous concentration. Field trips will be the major emphasis, with a chance for individual skill development.

We will meet at the Lamar Buffalo Ranch at 7:30 pm on the first day and end mid afternoon on the last day.

Wolves of the World

June 26-28 (#627)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

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

\$215 (Member's fee \$205)

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 ready to hike 2 to 3 miles.

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

Yellowstone's Geoecosystem

June 26-28 (#628)

Limit: 12

Location: Mammoth Hot Springs & Lake

Credit Pending

Instructor: Paul K. Doss, Ph.D.

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

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 area at 8:00 am on the first day and end late afternoon on the last day. Rooms have been set aside at Mammoth and Lake—contact registrar for reservation information.

Exploring Yellowstone by Map & Compass

June 27 (#629)

Limit: 12

Location: Old Faithful

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

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

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.

True to Life: The Art & Science of Drawing Animals

June 28-30 (#631)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Peg Steunenberg

& George Bumann, M.S.

\$215 (Member's fee \$205)

NEW

Join us to discover the art and science of drawing wild animals. Combining practical exercises with presentations on the anatomy, behavior, and ecology of individual species, the course will give you the skills and knowledge to create more lifelike drawings. Taxidermy mounts and skeletal specimens will be used to help you capture texture and form. The uses of graphite, colored pencils, and water-based mediums will be demonstrated.

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



This Place is for the Birds!

June 29-July 1 (#632)

Limit: 12

Location: Mammoth Hot Springs

Credit Pending

Instructor: Brian Thorpe, M.S.

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

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 at the North Entrance Education Center in Gardiner, Montana, 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.

Legendary Yellowstone Wolves: Their Individual Stories

June 29-July 1 (#633)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Greg Wright, M.S.

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

NEW

Discover Yellowstone wolves by learning the life stories of the individual wolves who have captured our imaginations and hearts. More than great stories, the lives of these animals memorably dramatize the history of wolf restoration, the discoveries of wolf research, the importance of wild wolves to the human spirit, and the ongoing challenge of wolf conservation. Join us to explore the stories of wolves #2, 7, 9, 10, 21, 40, and 42—Yellowstone's legendary wolves. When not in the classroom, we will venture into the field to observe wolves in the wild.

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

Yellowstone Waterfalls

June 29-July 2 (#634)

Limit: 12

July 13-16 (#717)

Limit: 12

Location: Flagg Ranch, Old Faithful, Canyon

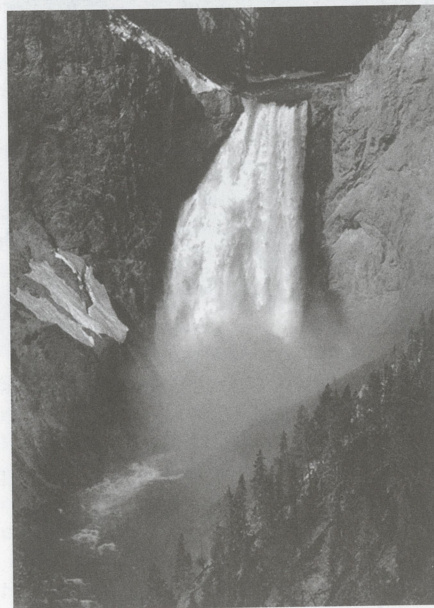
Credit Pending

Instructor: Earle Layser, M.S.

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

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 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.



Introduction to Yellowstone's Geological Landscapes

June 30 (#635)

Limit: 12

Location: Mammoth Hot Springs

Instructor: Paul K. Doss, Ph.D.

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

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 area at 8:00 am and end at approximately 6:00 pm.

Ripple Effect: The Ecology of Wolf Restoration

July 1-3 (#701)

(See description on pg. 12.)

Butterflies of the Greater Yellowstone Ecosystem

July 2-4 (#702)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Robert Anderson, Ph.D.

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

This course on butterflies explores their unexcelled beauty and aesthetic appeal. Their diverse colors and patterns have inspired many a naturalist, both amateur and professional. The biotic sensitivities of butterflies to local environments and microhabitats have resulted in a rich array of genera, species, and subspecies. Indeed, many—especially those that survive in confined or compressed habitats—are rare or endangered and on the verge of extinction. The Greater Yellowstone Ecosystem supports nearly 130 species representing 7 families of butterflies, many of which can delight our vision in subtle ways as their presence passes between bluebirds and bison. Participants will discover the butterfly bounty of Yellowstone and its environs, with their numbers, variety, flight characteristics, food requirements, life cycles, and other attributes.

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



Wildflowers for Beginners—Lake

July 3 (#703)

(See description on pg. 15.)

The History of Wildlife in Yellowstone

July 3-5 (#704)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Lee Whittlesey, J.D.,

& James Pritchard, Ph.D.

\$215 (Member's fee \$205)

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 Buffalo Ranch at 9:00 am on the first day and end late afternoon on the last day.

Forest Ecology: Lessons from a Wildland Ecosystem

July 4-5 (#705)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Dennis Knight, Ph.D.

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

NEW

Join us to learn about the diverse forests of Yellowstone National Park, including whitebark pine and limber pine woodlands, aspen groves, the expansive lodgepole pine forests of the park interior, Douglas-fir woodlands, and forests of Engelmann spruce and subalpine fir. After a review of basic concepts, discussion will focus on what recent research is revealing about the role of fire, disease, insects, and other factors in Yellowstone forests. Participants will also learn about the methods scientists use to study forest ecology. Field trips to different sites in Yellowstone Park will demonstrate the need for caution when making generalizations about forests. The field trip on the first day will begin after lunch and continue after supper until dark. Introductory reading material will be sent to participants before the course begins.

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

Alpine Wildflowers

July 6-8 (#708)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: John Campbell, Ph.D.

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

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 at Lamar Buffalo Ranch at 7:00 pm on the first day and end mid-afternoon on the last day.

Family Wonder Week

July 6-9 (#709)

Limit 20

Location: Lamar Buffalo Ranch

Instructor: Ellen Petrick-Underwood, M.S.

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

\$175 Child (Member's fee \$165)

"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.

The program is designed for families with children ages 8 to 12.

We will meet at the Lamar Buffalo Ranch at 9:00 am on the first day and end late afternoon on the last day. Fee includes \$15 for course materials.



Nature Photography in Yellowstone: Building a Foundation for Creativity

July 7-10 (#710) Limit: 11

Location: Lake
Credit Pending

Instructor: Sandra Nykerk
\$265 (Member's fee \$255)

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.

Artistic Field Journals

July 9-12 (#711) Limit: 10

Location: Old Faithful
Instructor: Eleanor Williams Clark, M.L.A.
\$280 (Member's fee \$270)

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.

Lichens & Mosses in Yellowstone National Park

July 10 (#712) Limit: 12

Location: Lamar Buffalo Ranch
Instructor: Sharon Eversman, Ph.D.
\$70 (Member's fee \$60)

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 Buffalo Ranch at 9:00 am and be back by 5:00 pm. You'll need a sack lunch, and if you have a hand lens or little magnifying glass it would be good to bring it.

Glaciation & the Geology of Northern Yellowstone

July 10-12 (#713) Limit: 12

Location: Lamar Buffalo Ranch
Credit Pending
Instructor: Kenneth Pierce, Ph.D.
\$200 (Member's fee \$190)

NEW

Learn about the process and history of glaciation that sculpted the Yellowstone area. The Yellowstone glacial system flowed across and shaped dramatically different bedrock terrains, ranging from hard granitic rocks to erodible brown volcanic rocks to soft shaley sediments. Grass-lands that support much of Yellowstone's wildlife, such as Yellowstone's northern Range and Hayden Valley, are related to the water-holding capacity of glacial deposits. We will hike 3 miles up to the top of Mt. Washburn and see glacial polish formed by Yellowstone's even higher icecap, and get an overview of all of Yellowstone including the Yellowstone volcano. We will follow the northern Yellowstone outlet glacier to its terminal moraines 40 miles north of Yellowstone, and hike across giant ripples formed by catastrophic glacial floods. We will explore how Yellowstone's volcanic rocks date the erosion of the Yellowstone Valley and learn how Yellowstone's glaciations have been dated.

We will meet at the Lamar Buffalo Ranch at 9:00 am the first day, and conclude there at about 5:00 pm the last day.

Wildflowers & Wildfire

July 12-13 (#715)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Wayne Phillips

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

Fires raged in forests throughout the West in the summer of 2003. Do you want to know how the burned areas will respond, and the role of fire in the ecosystem? This class will investigate the effect of fire on plant communities, including sagebrush, aspen and coniferous forests. Plant responses to wildlife will be studied, including plant strategies for surviving fire and for recolonizing the burned areas after a fire. Areas burned in Yellowstone in 1988 will be compared with similar unburned areas. Sites photographed by the instructor will be re-visited, studied, and compared with photos taken in subsequent years. We will learn to identify the wildflowers, shrubs, grasses and trees that are growing in the burned areas. Expect to walk 1 to 2 miles with up to 500 feet of elevation gain.

We will meet at the Lamar Buffalo Ranch at 9:00 am on the first day and end at 4:00 pm on the last day. Fee includes \$10 for course materials.

Mammal Tracking: Interpreting Tracks, Scat & Other Signs

July 12-15 (#716)

(See description on pg. 11.)

Yellowstone Waterfalls

July 13-16 (#717)

(See description on pg. 18.)

Plants of the Lewis & Clark Expedition

July 14 (#718)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Wayne Phillips

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

See the wildflowers, shrubs, and trees of the American west through the eyes of Lewis and Clark. The Corps of Discovery collected, catalogued, and preserved 226 plant species, 178 of which had not been previously recorded by Euro-Americans. Participants will learn about the history and botany of these plants through illustrated lectures, maps showing where different species were found, journal excerpts describing individual species, contemporary photographs of the plants taken at or near the locations where they were originally discovered, and nineteenth century sketches of Lewis and Clark's specimens. The course will focus on the plants the Corps encountered in the high plains and Rocky Mountains.

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

Along the Yellowstone River with Lewis & Clark

July 14-16 (#719)

Limit: 10

Location: Mammoth Hot Springs/

Three Forks and Dillon, Montana

Credit Pending

Instructor: Jim Garry, M.S.

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

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. Rooms have been set aside at Mammoth Hot Springs, Three Forks, and Dillon—contact registrar for lodging information.

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

July 15 (#720)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nancy Procter, M.Ed.

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

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 at the Lamar Buffalo Ranch at 8:00 am, and safely return around 5:00 pm.



Day Hiking the Wild Yellowstone

July 15-18 (#721)

Limit: 12

September 2-5 (#903)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: Nancy Procter, M.Ed.

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

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 at the Lamar Buffalo Ranch at 7:30 pm on the first day and end late afternoon on the last day.

The Lesser-Known Carnivores of the Greater Yellowstone Ecosystem

July 16-18 (#722)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: James Halpenny, Ph.D.

\$215 (Member's fee \$205)

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

Native Trails & Tales: A Day Hike on the Bannock Indian Trail

July 17 (#723)

Limit: 12

Location: Gardiner, Obsidian Cliff,

& Blacktail Plateau

Instructor: Rosemary Sucec, M.A.

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

NEW

A netted web of well-worn pathways led American Indians to familiar locations within, through, and around present-day Yellowstone National Park. The comments of early trappers and explorers frequently refer to this or that "old Indian trail." Chittenden's early history of the park is replete with such comments. Explorers such as Hayden and Jones were accompanied by Native Americans familiar with these corridors. These antiquated highways include the now-famous Bannock Trail system in the northern part of the park, the east-west Jones Pass trail crossing the Absaroka Range to Yellowstone Lake, the north-south Thorofare and Snake River trails, as well as trails following other drainages including the Madison, Firehole, and Yellowstone rivers. All of these are subsets of larger, regional and continental trail systems. In this one-day course, we'll start with a brief classroom session, and then move out to the field where we'll explore remnants of the old Bannock Trail system and the features that lay along it. On location, you'll hear some of the amazing accounts Native Americans have shared with us about traveling these aboriginal park pathways. We will hike at least 3 to 4 miles of the trail with a total elevation gain of approximately 500 feet.

We will meet at the North Entrance Education Center at Gardiner, Montana, at 8:00 am and end late afternoon.

Geysers, Mud Pots & Hot Springs

July 19-21 (#724)

Limit: 12

July 23-25 (#729)

Limit: 12

Location: Old Faithful

Credit Pending

Instructor: Duncan Foley, Ph.D.

\$215 (Member's fee \$205)

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.





Gray Wolves, Gray Matter: A Wolf Ecology Workshop for Educators

July 19-22 (#725)

Limit: 24

Location: Lamar Buffalo Ranch

Instructor: Greg Wright, M.S.

& Andrea Lorek-Strauss, M.S. Ed.

\$290 (Member's fee \$280)

NEW

The wolf engages and motivates learners of all levels like few other topics can. In this workshop, educators will learn and exchange ideas for teaching about these complex animals and the human dynamics that influence their survival. Participants will gain expertise in wolf ecology and behavior while observing wolves in the field, then explore the many ways to translate that into meaningful learning opportunities for students. The course includes discussion of and techniques for the balanced presentation of contentious, value-laden issues, field observations, curriculum training, lecture and discussion about wolves, wolf ecology, the wolf's role in modern society. Multiple teaching resources will be provided. Graduate credit is available.

We will meet at the Lamar Buffalo Ranch at 9:00 am on the first day and end late afternoon on the last day. Fee includes \$30 for course materials.

Alpine Ecology in the Beartooths

July 20-22 (#727)

Limit: 12

Location: Cooke City, Montana

Credit Pending

Instructor: James Halfpenny, Ph.D.

\$205 (Member's fee \$195)

NEW

For human visitors, the Beartooth Range is a stunning alpine wilderness of aquamarine lakes, vestigial glaciers, and endless wildflower meadows. For the creatures that live in the Beartooths, on the other hand, the range is a forbidding environment of bitter cold, cutting wind, and heavy precipitation that requires plants and animals to adapt or perish. On this course, we will spend our days high in the Beartooths learning about the interaction of geology, climate, plants, and animals that together form the alpine ecosystem. We will also examine some individual species and the remarkable adaptations that allow them to survive and thrive in this extreme environment. Field trips will visit some of the most scenic alpine landscapes in North America.

We will meet in the Cooke City area at 6:00 am on the first day and end at 4:00 pm on the last day. Rooms have been set aside in Cooke City—contact registrar for lodging information. Fee includes \$5 for course materials.

Geysers, Mud Pots & Hot Springs

July 23-25 (#729)

(See description on pg. 22.)



Day Hiking the Beartooths

July 23-26 (#730)

Limit: 12

Location: Cooke City, Montana

Instructor: Nancy Procter, M.Ed.

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

NEW

The Beartooth Plateau is the largest contiguous expanse of alpine tundra in the lower 48 states and a paradise for hikers who love high country. With many trails starting at elevations of 9,000 to 10,000 feet, backcountry explorers have easy access to one million acres of glacial lakes, granite peaks, and meadows ablaze with wildflowers. Join us to explore and learn about this one-of-a-kind alpine wilderness. The first evening, we will review the basics of prudent, 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 of the Beartooths. Daily hikes will range up to 8 to 10 miles, with 1,500-foot elevation gains.

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

Fly-Fishing for Women I 🏠

July 27-29 (#733)

Limit: 6

August 28-30 (#819)

Limit: 6

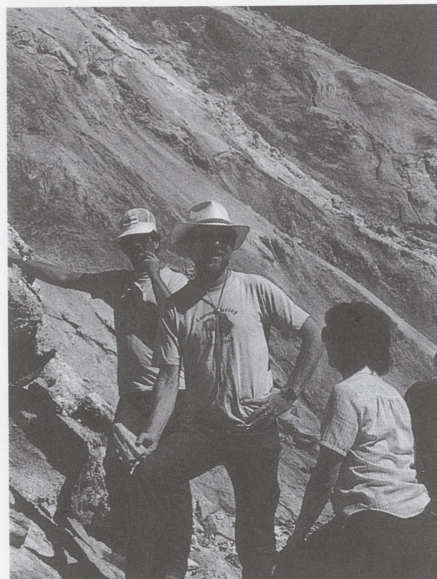
Location: Mammoth Hot Springs

Instructor: Rhea Topping

\$290 (Member's fee \$280)

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 the North Entrance Education Center in Gardiner, Montana, 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).



We Are Not Fools Yet! Crow Indian Culture & Yellowstone National Park

July 27-29 (#734)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Timothy P. McCleary, M.A.,

John Grant Bulltail, & Marvin B. Daves, Sr.

\$215 (Member's fee \$205)

NEW

Join us (two Crow tribal historians and one anthropologist) for comprehensive and intensive discussions on Crow Indian culture and history as related to the greater Yellowstone environment. Through a combination of classroom sessions and field trips to critical cultural sites, we will examine the importance of Yellowstone National Park to Crow people historically and today. You will learn about the complex relationships Crow people developed and maintained with the unique geological and biological features of the park. Topics and issues include: origins and history of Crow people, the Crow explanation of how natural features within Yellowstone National Park were created, child rearing and training, hunting and warfare, historic and contemporary Crow beliefs and practices in Yellowstone Park, and much more. Come and find out how the title relates to Crows and Yellowstone Park. The majority of field trip destinations will be within short walking distance from paved roads and parking lots. Nonetheless, participants should be able to hike 1 to 2 miles.

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

Exploring Yellowstone's Microbes

July 27-30 (#735)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Anna-Louise Reysenbach, Ph.D.

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

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 at the Lamar Buffalo Ranch at 9:00 am on the first day and end around 3:00 pm on the last day.

Geology of Yellowstone Lake



July 28-30 (#736)

Limit: 12

Location: Lake

Credit Pending

Instructor: Lisa Morgan, Ph.D.

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

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



Fly-Fishing the Catch & Release Way—Less Experienced

July 30-August 1 (#737)

Limit: 8

Location: Lamar Buffalo Ranch

Instructor: Richard Parks

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

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 at the Lamar Buffalo Ranch 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.

Day Hiking the Yellowstone Lake Area

July 30-August 2 (#738)

Limit: 12

Location: Lake

Instructor: Nancy Procter, M.Ed.

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

From the top-of-the-world views on Avalanche Peak to the churning waters of the Canyon's Seven-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.

Old Times at Old Faithful

July 31 (#739)

Limit: 15

Location: Old Faithful

Instructor: Leslie J. Quinn, M.Ed.

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

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.

The Bison of Yellowstone

July 31-August 2 (#740)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Jim Garry, M.S.

& Harold Picton, Ph.D.

\$215 (Member's fee \$205)

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 at the Lamar Buffalo Ranch at 9:00 am on the first day and end mid-afternoon on the last day.



Fly-Fishing for Women II



July 31-August 2 (#741)

Limit: 6

September 1-3 (#901)

Limit: 6

Location: Mammoth Hot Springs

Instructor: Rhea Topping

\$290 (Member's fee \$280)

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 the North Entrance Education Center in Gardiner, Montana, 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).

Ghost Hotels of Yellowstone

August 1 (#801)

Limit: 12

Location: Old Faithful

Instructor: Leslie J. Quinn, M.Ed.

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

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.



Map, Compass, GPS & Stars Across Yellowstone

August 1-3 (#802)

Limit: 12

Location: Lamar Buffalo Ranch

Instructor: James Halfpenny, Ph.D.

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

NEW

A sliver of metal that points north changed the world. In this hands-on course, you will learn how to find your way through the wilderness using map, compass, a GPS unit, the sun, and the night sky. We'll make a compass and then learn why it doesn't point north. Using compasses corrected for magnetic declination, we will map the Lamar field campus. Then we'll turn that map into a topographic map. Expect some orienteering in this course. We'll review Yellowstone maps and study how UTM's (universal transverse mercator grids), latitude, and longitude help Yellowstone biologists study animals. Also, we'll take a look at GIS (geographic information systems) and GPS (global positioning satellites) systems. This course is designed for beginners.

We will meet at the Lamar Buffalo Ranch at 7:00 pm on the first day and end at 3:00 pm on the last day. Fee includes \$10 for course materials.

The Fur Trade in Yellowstone

August 3-5 (#803)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Jim Garry, M.S.

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

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 at the Lamar Buffalo Ranch 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 (#804)

(See description on pg. 12.)

Shaping the Northern Yellowstone Landscape

August 6-8 (#805)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Grant A. Meyer, Ph.D.

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

Northern Yellowstone displays the clear and spectacular imprint of dynamic geomorphic processes, including vulcanism, 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 at the Lamar Buffalo Ranch 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.

Day Hiking the Old Faithful Area



August 6-9 (#806)

Limit: 12

Location: Old Faithful

Instructor: Nancy Procter, M.Ed.

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

NEW

Want to see geysers, waterfalls, and lakes in a wilderness setting away from the boardwalks and crowds? Join us to explore and learn about the rich backcountry in the Old Faithful area from expansive Shoshone Lake to the glorious displays of Imperial Geyser and the long delicate descent of Fairy Falls. The first evening, we will review the basics of prudent, 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 1,000-foot elevation gains, so bring the boots that are your feet's best friend.

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



Yellowstone's Home Town: Mammoth Hot Springs

August 7 (#807)

Limit: 12

Location: Mammoth Hot Springs

Instructor: Leslie J. Quinn, M.Ed.

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

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.



Introduction to Mammal Tracking

August 8 (#808)

Limit: 12

Location: Gardiner, Montana

Instructor: James Halfpenny, Ph.D.

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

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, Montana, at 8:00 am and end at 5:00 pm. Fee includes \$5 for course materials.

Day Hiking the Cascade Corner

August 13-16 (#811)

Limit: 12

Location: Bechler

Instructor: Nancy Procter, M.Ed.

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

Join us as we 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 10 to 14 miles daily on well-maintained trails across consistently flat terrain. 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.

Wonderland's Serene Spot: History on Yellowstone Lake

August 17 (#814)

Limit: 10

Location: Lake-Fishing Bridge

Instructor: Leslie J. Quinn, M.Ed.

\$90 (Member's fee \$80)

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, the Yellowstone Lake Boat Company, the Wylie Camp, the Howard Eaton Trail, the former Fishing Bridge 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 9:00 am and end late afternoon. Fee includes \$10 for boat trip.

Wild Edible Plants & Medicinal Herbs

August 21-23 (#815)

(See description on pg. 16.)

Yellowstone's Southern Roadside History

August 25-27 (#817)

Limit: 12

Location: Old Faithful

Credit Pending

Instructor: Lee Whittlesey, J.D.

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

The Yellowstone landscape is rich in evidence of early human activity. Traveling the park's roads, we will discover many fascinating sites worth closer examination. Informative daylong field trips and off road hikes (up to 3 miles round trip) to examine these sites and discuss their significance will guide your understanding of human involvement in Yellowstone, from early Native American use to more recent human activity. This exploration of the park's history will be supplemented with a slide show of historic photos and a special tour of Yellowstone's antique stagecoaches and early buses, a collection not generally open to the public.

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





Words Inspired by Wilderness

August 27-30 (#818)

Limit: 12

Location: Lamar Buffalo Ranch

Credit Pending

Instructor: Alan Kesselheim

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

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 at the Lamar Buffalo Ranch at 9:00 am on the first day and end at 4:00 pm on the last day.

Fly-Fishing for Women I

August 28-30 (#819)

(See description on pg. 23.)

Bears—Folklore & Biology

August 30-September 1 (#820)

Limit: 11

Location: Lamar Buffalo Ranch

Credit Pending

Instructors: Jim Garry, M.S.

& Harold Picton, Ph.D.

\$215 (Member's fee \$205)

Bears are the ultimate charismatic megafauna. This class will, by combining two disciplines and field observation time, explore why the bear looms so large both in Yellowstone and in our psychic landscape. We'll explore the bear's basic biology, including reproduction, behavior, food habits, home ranges, habitat use, and population biology. We'll also delve into the bears of our myths, dreams, folklore, cults, and popular culture. Throughout the course, we will compare and contrast scientific and folk knowledge, and explore the importance of both as part of our relationship with the land.

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

The Wolves of Yellowstone

August 31-September 2 (#821)

(See description on pg. 9.)

Fly-Fishing for Women II

September 1-3 (#901)

(See description on pg. 26.)

Day Hiking the Wild Yellowstone

September 2-5 (#903)

(See description on pg. 22.)

Autumn Day Hiking in Yellowstone

September 17-19 (#906)

Limit: 11

September 24-26 (#911)

Limit: 11

Location: Mammoth Hot Springs

Instructor: Melissa Pangraze

& Edward Schauster, M.S.

\$215 (Member's fee \$205)

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 18-20 (#907)

Limit: 8

Location: Mammoth Hot Springs

Instructor: Terry McEaney

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

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 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 at the North Entrance Education Center in Gardiner, Montana, 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.

Fly-Fishing in the Fall

September 19-21 (#908)

Limit: 8

Location: Mammoth Hot Springs

Instructor: Richard Parks

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

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 at the North Entrance Education Center in Gardiner, Montana, 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 Wildlife in Yellowstone

September 20-22 (#909)

Limit: 12

Location: Mammoth Hot Springs

Instructor: Jim Garry, M.S.

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

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 at the North Entrance Education Center in Gardiner, Montana, 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.

Autumn Photography in Greater Yellowstone

September 20-23 (#910)

Limit: 11

Location: Grand Teton National Park

September 26-29 (#912)

Limit: 11

Location: Mammoth Hot Springs, Yellowstone National Park

Credit Pending

Instructor: Sandra Nykerk

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

Join us to explore the many photographic opportunities of autumn in Greater Yellowstone—from bugling elk to the delicate colors of the changing landscape. *Autumn Photography in Greater Yellowstone* is actually two four-day courses—one in Grand Teton National Park and one in Yellowstone National Park. Participants may register for one or both. These programs are designed for photographers of varying levels, but a working understanding of photographic basics and a fundamental familiarity with your own equipment will be assumed. Although our emphasis will be on field experience, classroom sessions will review basic photographic principles, the ethics of nature photography, exposure control, composition, film and lens selection, and digital considerations. In the field, we'll turn our attention to all aspects of the nature photography experience, allowing for the inspiration of the landscape and weather conditions, and the serendipity of wildlife. Throughout, consideration will be given to developing personal vision and creativity and understanding the importance of a comprehension of the world of natural history to the nature photographer. Lab film processing during each program will provide on-site feedback for skill development and film comparisons.

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

Autumn Day Hiking in Yellowstone

September 24-26 (#911)

(See description on pg. 29.)

Autumn Photography in Greater Yellowstone

September 26-29 (#912)
(See description on pg. 31.)

Autumn Fly-Fishing for Women I

September 27-29 (#913) **Limit: 6**
Location: West Yellowstone, Montana
Instructor: Rhea Topping
\$290 (Member's fee \$280)

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).

The Wolves of Yellowstone

September 30-October 2 (#914)
(See description on pg. 9.)

Autumn Fly-Fishing for Women II

October 1-3 (#1001) **Limit: 6**
Location: West Yellowstone, Montana
Instructor: Rhea Topping
\$290 (Member's fee \$280)

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 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 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).



The Wolves of Yellowstone

October 7-9 (#1002)
(See description on pg. 9.)

Wilderness First Responder

November 3-12 (#1101) **Limit: 24**
Location: Lamar Buffalo Ranch
Instructor: Wilderness Medicine Institute Staff
\$515 (Member's fee \$505)

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 at the Lamar Buffalo Ranch at 8:00 am on the first day and end at 5:00 pm on the last day.

Wilderness First Aid

November 13-14 (#1101)
(See description on pg. 9.)



2004 Backcountry Courses

Yellowstone Association Institute 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 rich, natural and cultural heritage of Yellowstone National Park.

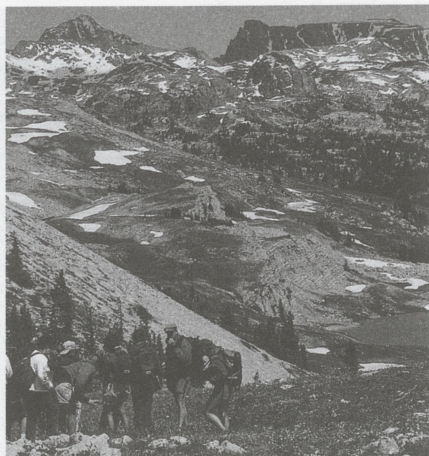
The ingredients of every Institute backpacking course are the same:

- **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.

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.

For all backpacking 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.



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.

Where the Wild Things Are: A Wildlife Basecamp

May 29-June 1 (#515)

Limit: 8

Location: Hellroaring Area

Difficulty Level: 2+

Instructors: Nathan Varley, Ph.D. candidate
& Julianne Baker, M.Ed.

\$310 (Member's fee \$300)

Enjoy the challenge and thrill of observing wildlife in the wilderness. From our 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 at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end mid-afternoon on the last day.

Slough Creek Grizzly Bear Basecamp

June 2-5 (#601)

Limit: 8

Location: Slough Creek

Difficulty Level: 2

Instructors: Jim Garry, M.S.

& Julianne Baker, M.Ed.

\$310 (Member's fee \$300)

NEW

The first week of June is elk calving season in Yellowstone and that means grizzly bears in the low country hunting vulnerable, energy-rich elk calves. Join us to explore the backcountry calving grounds along picturesque Slough Creek and learn about Yellowstone's majestic grizzly bear. Along the trail and in camp, you will learn about grizzly bear evolution, taxonomy, food habits, habitat use, folklore, conservation, and management. On day hikes, we will explore grizzly habitat, identifying and interpreting tracks, scat, and other sign, and learning about important grizzly bear foods. The course will also cover backcountry practices that can help keep bears, and people, safe in grizzly country. At sunrise and sunset there will be optional wildlife watching to see elk, bison, and, hopefully, bears.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end mid-afternoon on the last day.

Leave No Trace Backpacking Master Course



June 7-11 (#608)

Limit: 10

Location: Lamar Buffalo Ranch,
Lower Black Canyon

Difficulty Level: 2

Instructors: Ivan Kowski & Melissa Pangraze
\$765

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 Buffalo 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.



Yellowstone Wolf Basecamp

June 9-12 (#610)

Limit: 8

Location: Hellroaring

Difficulty Level: 2+

Instructors: Greg Wright, M.S.

& Angela Patnode

June 21-24 (#622)

Limit: 8

Location: Slough Creek

Difficulty Level 2

Instructors: George Bumann, M.S.

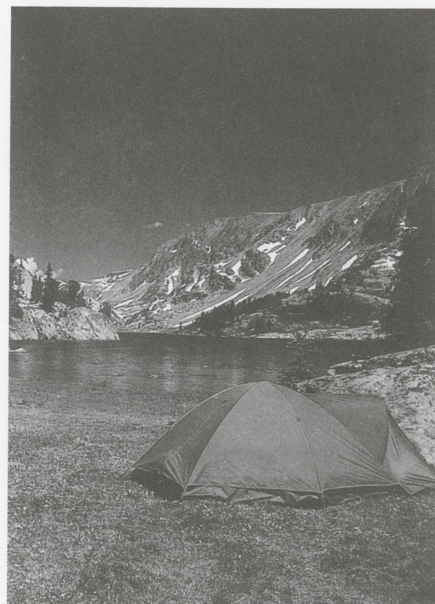
& Melissa Pangraze

\$310 (Member's fee \$300)

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. Several packs inhabit this area of the park, 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 at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end late morning the last day.



Black Canyon Wildlife Backpack

June 13-17 (#615)

Limit: 8

Location: Black Canyon

Difficulty Level: 3

Instructors: Nathan Varley, Ph.D. candidate

& Julianne Baker, M.Ed.

\$385 (Member's fee \$375)

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 at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end at 4:00 pm the last day.

Yellowstone Wolf Basecamp —Slough Creek

June 21-24 (#622)

(See description on pg. 33.)

Backpacking in Grizzly Country

June 27-July 1 (#630)

Limit: 6

Location: Canyon

Difficulty Level: 3

Instructor: Melissa Pangraze

July 26-30 (#732)

Limit: 8

Location: Lower Geyser Basin

Difficulty Level: 2+

Instructor: Julianne Baker, M.Ed.

September 1-5 (#902)

Limit: 6

Location: Heart Lake/Snake River

Difficulty Level: 3

Instructor: Greg Gordon, M.S.

\$360 (Member's fee \$350)

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.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end mid afternoon on the last day.



Introduction to Yellowstone Backpacking

July 4-7 (#706)

Limit: 6

Location: Lower Geyser Basin

Difficulty Level: 1

Instructor: Melissa Pangraze

August 9-12 (#810)

Limit: 8

Location: Canyon

Difficulty Level: 1+

Instructor: Melissa Pangraze

\$290 (Member's fee \$280)

NEW

This introductory course focuses on giving you the skills and knowledge to take short backpacking trips on your own. Classes will focus on purchase, use, and maintenance of clothing and gear; recommended practices for backpacking in grizzly country; Leave No Trace principles and practices for preserving the wilderness character of the areas we visit; Yellowstone National Park backcountry rules; basic navigation skills; physical preparation; food planning, preparation, and storage; and other subjects that will help you visit the backcountry safely, comfortably, and responsibly. We choose short, relatively flat routes for the introductory courses so you can learn at a reasonable pace, test your backpacking legs, and have plenty of time to enjoy the wilderness experience.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and early afternoon on the last day.

Pelican Valley Grizzly Bear Basecamp

July 5-9 (#707)

Limit: 8

Instructors: Angela Patnode & Jim Garry, M.S.

September 10-14 (#905)

Limit: 8

Instructors: Kerry A. Gunther, M.S.

& Greg Gordon, M.S.

Difficulty Level: 4

\$385 (Member's fee \$375)

Join us for a backpacking trip to Pelican Valley, 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 at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end late afternoon on the last day.



Mirror Plateau Wolf Backpack

July 11-15 (#714)

Limit: 8

Instructors: Dan Stahler, M.S.
& Melissa Pangraze

July 19-23 (#726)

Limit: 8

Instructors: George Bumann, M.S.
& Angela Patnode

Difficulty Level: 3+

\$385 (Member's fee \$375)

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 at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end late afternoon on the last day.

High Mountain Wizards

July 20-24 (#728)

Limit: 8

Location: Beartooths

Difficulty Level: 3

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

\$385 (Member's fee \$375)

NEW

Eagles soar overhead prompting marmots to chirp their shrill warning. A snow-white mountain goat gracefully scales cliffs over a dizzying chasm. Black clouds seep and roll over stubborn peaks to unleash their spectacular lightening displays. Welcome to the alpine world of the high mountain wizards—mountain goats, bighorn sheep, marmots, and wolverine. Join a Yellowstone wildlife biologist and mountain goat expert to observe and learn about the animals that survive and thrive amidst the lofty peaks of the Absaroka Range just outside the northeast corner of Yellowstone Park. Students will learn about dynamic predator-prey relationships, complex foraging and migration adaptations, and the multi-species relationships of alpine wildlife.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end mid afternoon on the last day.

Hoodoo Basin Basecamp

July 25-31 (#731)

Limit: 8

Location: Sunlight Basin/Hoodoo Basin

Difficulty Level: 4

Instructor: Angela Patnode

\$500 (Member's fee \$490)

For many aficionados of the Yellowstone backcountry, the dazzling high country of Hoodoo Basin is the crème de la crème. This course focuses on getting to Hoodoo Basin and staying put—soaking in the endless alpine scenery, climbing peaks, marveling at the hoodoo rock formations, sharing the world with wolves, bears, and bison, and learning about the area's remarkable resources. Each of our three full days in Hoodoo will focus on a different theme—wildlife, geology, and history—with day hikes chosen to illuminate these themes.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end late afternoon on the last day.

Backpacking in Grizzly Country— Lower Geyser Basin

July 26-30 (#732)

(See description on pg. 34.)

Heart Lake Women's Backpack

August 8-12 (#809)

Limit: 8

Location: Heart Lake

Difficulty Level: 3+

Instructor: Angela Patnode

\$360 (Member's fee \$350)

NEW

If you are looking for an exploratory journey with an amazing group of women, then this is the course for you! We will be traveling over moderate terrain and interpreting the natural world as it presents itself. Topics covered will include grizzly bear safety and ecology, geyser basin geology, fire ecology, Leave No Trace practices, and backpacking skills. During a layover day at Heart Lake we will explore Heart Lake Geyser Basin and day hike to the summit of Mt. Sheridan. From Heart Lake we will follow the Snake River to the South Entrance of Yellowstone. Join us for five days of learning, laughing, and sharing amidst the beautiful scenery in the Yellowstone wilderness!

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end mid afternoon on the last day.

Introduction to Yellowstone Backpacking —Canyon

August 9-12 (#810)

(See description on pg. 34.)

Flight of the Nez Perce Backpack

August 15-19 (#812)

Limit: 8

Location: Lamar River/Pelican Valley

Difficulty Level: 4

Instructors: Lee Whittlesey, J.D.

& Julianne Baker, M.Ed.

\$385 (Member's fee \$375)

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) will accompany you on a trip from Pelican Valley to the head of the Lamar River and down to Lamar Valley. 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 the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end early afternoon on the last day.

Yellowstone Waterfalls Backpack— Old Faithful to Bechler

August 16-22 (#813)

Limit: 8

Location: Bechler

Difficulty Level: 2+

Instructor: Angela Patnode

\$500 (Member's fee \$490)

NEW

Hike with us from the Old Faithful area up over the Continental Divide to the 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 and exploration of a remarkable concentration of backcountry waterfalls.

We will meet at the Warm River group campsite in the Bechler area at 8:30 am the first day and end mid afternoon on the last day.



Thorofare History Backpack

August 22-30 (#816)

Limit: 8

Location: Thorofare

Difficulty Level: 5

Instructors: Mike Yochim, Ph.D. candidate

& Julianne Baker, M.Ed.

\$685 (Member's fee \$675)

NEW

The southeast corner of Yellowstone National Park protects the most remote spot in the lower 48 states. Over 25 miles as the crow flies from the nearest road, the Thorofare has become the embodiment of wildness for many Americans, home to abundant wildlife, free-flowing rivers, and spectacular mountains. It comes as a surprise to some that this most remote area is also rich in human history including Indian use, fur trapping, explorer visits, and scuttled plans for roads and dams. This course explores the human history and wilderness character of the Thorofare as a way to illuminate the meaning of wilderness and the relationship between humans and nature. Late August is the perfect time to explore the Thorofare. Days are still long and warm, but nights are cooling off; mosquitoes have subsided, but flowers still bloom. Join us for a long and stimulating hike through this spectacular region.

We will meet at the North Entrance Education Center in Gardiner, Montana, at 8:30 am the first day and end mid afternoon on the last day.

Backpacking in Grizzly Country

September 1-5 (#902)

(See description on pg. 34.)

Bechler History Basecamp

September 6-10 (#904)

Limit: 8

Location: Bechler

Difficulty Level: 2

Instructors: Mike Yochim, Ph.D. candidate

& Julianne Baker, M.Ed.

\$385 (Member's fee \$375)

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 activities of 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 at the Warm River group campsite in the Bechler area at 8:30 am the first day and end mid afternoon on the last day.

Pelican Valley Grizzly Bear Basecamp

September 10-14 (#905)

(See description on pg. 34.)

Instructor Profiles

Robert Anderson, Ph.D.

(*Butterflies of the Greater Yellowstone Ecosystem*) 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*) 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.

Julianne Baker, M.Ed.

(*Backpacking courses*) has a masters degree in outdoor environmental education and 31 years of teaching experience (primarily in environmental science). She now resides in Gardiner, MT, working year-round as an educator in Yellowstone for the Yellowstone Association Institute and the National Park Service.

Gene Ball

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

Pete Bengeyfield, M.S.

(*Complete Wildlife Photography: Art, Ecology, & Stewardship*) has been a hydrologist with the U.S. Forest Service for 27 years. Since 1984 he has worked in the Yellowstone Ecosystem on the Beaverhead National Forest. Also an accomplished self-taught nature photographer, Pete has been published in *National Wildlife*, *Outdoor Photographer*, and *Sierra Club Calendars* as well as many regional publications. He has combined his photography with writing to produce two books, *Mountains and Mesas*, and *Incredible Vision—The Wildlands of Greater Yellowstone*.

Norman A. Bishop

(*Wolf Watching in Yellowstone; Ripple Effect: The Ecology of Wolf Restoration*) retired from the National Park Service in 1997 after 36 years, the last 17 at Yellowstone. From 1985-1997, Norm was the principal interpreter of wolf restoration. He has led 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 Greater Yellowstone Coalition's 1991 Stewardship Award. Norm co-authored *Yellowstone's Northern Range: Complexity and Change in a Wildland Ecosystem*.

John Grant Bulltail

(*We Are Not Fools Yet! Crow Indian Culture & Yellowstone National Park*) is a member of the Crow Tribe, a graduate of the University of Montana-Billings and a Vietnam veteran. He is a member of the Greasy Mouth clan and holds a Pipe Lighter entitlement in the Crow Sacred Tobacco Society. He has instructed college level courses throughout Montana and Wyoming on various topics related to Crow culture and history. He is particularly well suited for this course since his vast knowledge of Crow historical and mythological narratives derive from his famous grandfather Comes Up Red, who was nurtured and reared in the area we recognize today as Yellowstone National Park.

George Bumann, M.S.

(*The Wolves of Yellowstone; Yellowstone Wolf Basecamp; True to Life: The Art & Science of Drawing Animals; Mirror Plateau Wolf Backpack*) 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.

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.

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 12 years in California and Wyoming. She currently teaches at the Teton Science School, the Journeys School and the Yellowstone Association Institute for ages K-adult.

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.

Marvin B. Dawes, Sr.

(*We Are Not Fools Yet! Crow Indian Culture & Yellowstone National Park*) is a member of the Crow Tribe, the Greasy Mouth clan and a distinguished Black Lodge (River Crow) family. Although a young man, he has been carefully tutored by his family on the history and culture of his people and is recognized within the community as a social and cultural leader. He has served as a tour guide and interpreter on the reservation and in 1999 was chosen as the keynote student speaker for the Montana Historical Society Annual Meeting. He has recently served as the Tourism Director for Little Big Horn College and as a Park Ranger at Little Bighorn Battlefield National Monument.

Paul K. Doss, Ph.D.

(*Yellowstone's Geocosystem; Introduction to Yellowstone's Geologic Landscapes*) 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 for Beginners*) 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.

(*From Bison to Bighorn: The Hoofed Mammals of Yellowstone; Mountain Dwellers of the Yellowstone Ecosystem*) 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.

Duncan Foley, Ph.D.

(*Geysers, Mud Pots & Hot Springs*) 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.

Jim Garry, M.S.

(*The Big Three: Lions, Wolves, & Grizzly Bears; Spring Wildlife on the Northern Range; Spring Returns to Yellowstone; Slough Creek Grizzly Bear Basecamp; Bears: Bones, Signs & Stories; The Evolution, Ecology & Future of the Wolf Family; Pelican Valley Grizzly Bear Basecamp; Along the Yellowstone River with Lewis & Clark; The Bison of Yellowstone; The Fur Trade in Yellowstone; Bears—Folklore & Biology; 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*.

Greg Gordon, M.S.

(*Backpacking courses*) 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.

(*In the Bear's Den: An Introduction to Bear Denning & Hibernation; Pelican Valley Grizzly Bear Basecamp*) 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.

(*The Big Three: Lions, Wolves, & Grizzly Bears; Mammal Tracking: Interpreting Tracks, Scat & Other Sign; Bears: Bones, Signs & Stories; The Evolution, Ecology & Future of the Wolf Family; The Lesser-Known Carnivores of the Greater Yellowstone Ecosystem; Alpine Ecology in the Beartooths; Map, Compass, GPS, & Stars Across Yellowstone; 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*.

Mark Haroldson

(*Grizzly Bear Ecology & Management*) is a supervisory wildlife biologist for the Interagency Grizzly Bear Study Team, based in Bozeman, Montana. He has been involved in bear research for 28 years, and has worked in the Yellowstone ecosystem for the past 20. Mark has authored or coauthored over 20 scholarly publications on a variety of subjects concerning grizzly bears. Recent topics include grizzly bear population parameters in the Yellowstone ecosystem, and a book chapter on grizzly bear ecology and management.

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 Sisú: An Artist and Her Dog Take to the Hills* (W. W. Norton) appeared earlier this year.

Cheryl Jaworowski, Ph.D.

(*The Yellowstone Volcano: A Restless Giant*) 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.

Robyn Klein, Herbalist A.H.G.

(*Wild Edible Plants & Medicinal Herbs*) is a graduate of both Dominion Herbal College and the Southwest School of Botanical Medicine. She has taught herbalism classes since 1982. Robyn is the editor of Robyn's Recommended Reading and director of the Sweetgrass School of Herbalism in Bozeman, Montana. She is a member of the American Herbalists Guild, the American Herb Association, the Herb Research Foundation, the Great Northern Botanical Association, and the Montana Native Plant Society. Robyn is now earning a master's degree in botany at Montana State University.

Dennis Knight, Ph.D.

(*Forest Ecology: Lessons from a Wildland Ecosystem*) retired in 2001 from the University of Wyoming after teaching in the Botany Department there for 35 years. His courses included plant ecology and forest management. Working with students and other colleagues, he has been involved with numerous studies in the Greater Yellowstone Area—both before and after the 1988 fires. In 1990 he was president of the Ecological Society of America, and he is the author of numerous publications including the book, *Mountains and Plains: The Ecology of Wyoming Landscapes*.

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.

(*Fang & Flesh: Hunter & Hunted in Yellowstone*) is 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.S. 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.

Lawrence Loendorf, Ph.D.

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

Andrea Lorek-Strauss, M.S. Ed.

(*Gray Wolves, Gray Matter: A Wolf Ecology Workshop for Educators*) is National Information and Education Director at the International Wolf Center in Ely, Minnesota, and adjunct faculty member at Hamline University. She is the editor of the nationally award winning curriculum "Gray Wolves, Gray Matter: Exploring the social, biological, cultural, and economic issues of wolf survival" and has conducted many workshops for educators. She has been coordinating and conducting wolf education for all types of audiences for ten years.

Timothy P. McCleary, M.A.

(*We Are Not Fools Yet! Crow Indian Culture & Yellowstone National Park*) is a trained anthropologist. He has recently completed the coursework for a Ph.D. in anthropology at the University of Illinois: Urbana-Champaign. He is presently a professor of social sciences and Native American Studies at Little Big Horn College, the Crow Tribal college. He has published numerous papers on historic and contemporary Crow culture, including such varied topics as fundamentalist Christian sects on the reservation, the legal and social struggles of the Native American Church, and Crow perceptions of the heavens. The later research culminated in the book, *The Stars We Know: Crow Indian Astronomy and Lifeways*. He is presently working on an extensive Crow Indian geography and place-name project utilizing GIS/GPS technology to record and document historic and cultural sites.

Terry McEneaney

(*Waterfowl Identification & Ecology; Learning Birds by Sound; 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.

Kerry Murphy, Ph.D.

(*The Big Three: Lions, Wolves, & Grizzly Bears*) 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.

Sue Consolo Murphy, M.S.

(*Grizzly Bear Ecology & Management*) worked in Yellowstone for the National Park Service from 1982 to 2003. Currently chief of the Division of Resource Management at Grand Teton National Park, 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 Grand Teton National Park with her wildlife-biologist husband and two young daughters.

Sandra Nykerk

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

Doug Ouren, Ph.D. candidate

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

Melissa 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 6 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 while serving as 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 for the New Jersey School of Conservation, Weber State University, the U.S. Forest Service, Utah Division of Wildlife Resources, and the Ogden Nature Center.

Kenneth Pierce, Ph.D.

(*Glaciation & the Geology of Northern Yellowstone*) recently became Emeritus with the U.S. Geological Survey following a career focusing on the geologic origin of Rocky Mountain landscapes. He received the Kirk Bryan Award of the Geological Society of America for his report on the glacial geology of northern Yellowstone. He co-authored the best seller, *Recent and Ongoing Geology and Grand Teton and Yellowstone National Parks*. He is currently exploring geologic controls on ecology in the greater Yellowstone area.

Wayne Phillips

(*Wild Edible Plants & Medicinal Herbs; Wildflowers & Wildfire; Plants of the Lewis & Clark Expedition*) 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*, *Plants of the Lewis and Clark Expedition*; and is active in the Montana Native Plant Society.

Harold Picton, Ph.D.

(*From Bison to Bighorn: The Hoofed Mammals of Yellowstone; The Bison of Yellowstone; Bears—Folklore & Biology*) 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 courses*) worked as a National Park Service ranger-interpreter 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.

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.

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 W. Spoelhof, Ph.D.

(*Yellowstone Time Travel: Hiking into the Geologic Past*) 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 & Science 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.

Leslie Stoltz

(*Discovering Yellowstone Lake; Birding for Beginners*) leads natural history trips in and around Yellowstone for Elderhostel, World Wildlife Fund, Smithsonian, and Lone Mountain Ranch. She is a Professional Ski Instructor of America level III instructor and spends her winters guiding ski tours and teaching Nordic skiing.

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 Trails & Tales: A Day Hike on the Bannock Trail*) 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.

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 now works for 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; Where the Wild Things Are: A Wildlife Basecamp; Black Canyon Wildlife Backpack; Wolves—Reality & Myth; High Mountain Wizards*) 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.

Jennifer Whipple, M.A.

(*Spring Wildflowers*) 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; Flight of the Nez Perce Backpack; Yellowstone's Southern Roadside History*) 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), and, co-authored with Paul Schullery, *Myth and History in the Creation of Yellowstone National Park* (2003). He is widely published in the early history of interpretation and transportation in the park.

Wilderness Medicine Institute

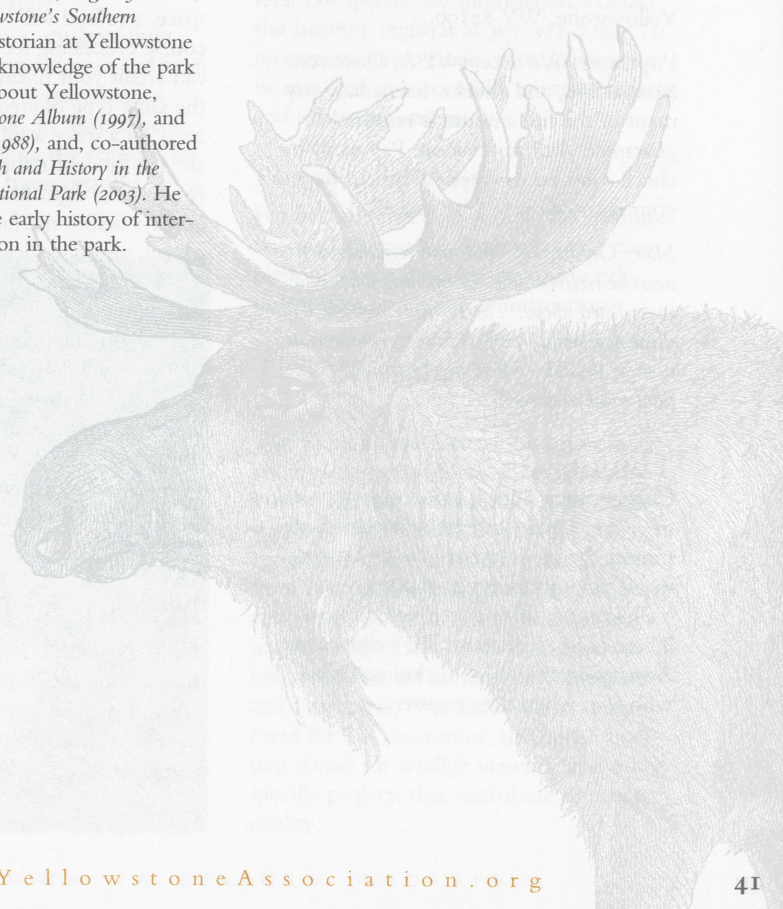
(an institute of the National Outdoor Leadership School (*Wilderness First Aid; Wilderness First Responder*)) has been a leader in wilderness medicine education since 1976. WMI provides all levels of wilderness medicine training for state and federal agencies, colleges, and outdoor programs throughout the West.

Greg Wright, M.S.

(*The Wolves of Yellowstone; Yellowstone Wolf Basecamp; Fang & Flesh: Hunter & Hunted in Yellowstone; Legendary Yellowstone Wolves; Their Individual Stories; Gray Wolves, Gray Matter: A Wolf Ecology Workshop for Educators*) is a wildlife biologist who earned his master's degree under Dr. Rolf Peterson studying relationships between wolves and elk on Yellowstone's Northern Range. Before coming to Yellowstone, Greg taught the public about wolves on Isle Royale for Earthwatch and at the International Wolf Center in Ely, MN. He now teaches full time for the Yellowstone Association Institute.

Mike Yochim, Ph.D. candidate

(*Thorofare History Backpack; Bechler History Basecamp*) 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, reclamation, kayaking, 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 Personal Wildlife Ed-Ventures

For programs taking place from May 1 to December 1, 2004, registration begins for Yellowstone Association members only on February 2, 2004, at 8:00 am, Mountain Standard Time (MST). Non-member registration begins February 9, 2004, at 8:00 am, MST. Most field seminars and backcountry courses have a limit of 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.

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

Fax: Complete and fax the registration form on pg. 45 to 307-344-2485.

Mail: Complete and mail the registration form on pg. 45 to: Yellowstone Association Institute, PO Box 117, Yellowstone, WY 82190.

Payment: We accept VISA, Discover, MasterCard, and 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 of the same type offered before October 1, 2004 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

If you choose to receive information by email, it will be sent as soon as course details are available. Otherwise, this will be mailed at least four weeks prior to the class.

Registration for Lodging and Learning Programs

Registration for summer 2004 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, 7 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. 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 package cost. We reserve the right to cancel a package 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.

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 \$25 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.

Personal Wildlife Ed-Ventures: 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.

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 carpooling may be necessary in some cases.

Personal Wildlife Ed-Ventures:

Institute vehicles are available for Personal Wildlife Ed-Ventures.

Academic Credit

For some field seminars, 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 \$60-\$175 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 Program Excellence Fund

The Yellowstone Association Institute endeavors to provide top-quality educational programs at reasonable rates. Please support this effort by contributing to the Program Excellence Fund. Contributions from Institute students allow us to improve our program and facilities while maintaining reasonable rates. Your donation will help fund first aid training for instructors and volunteers, new audio-visual equipment for our classrooms, additional spotting scopes for wildlife viewing, and other specific projects that contribute to program quality.

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. 44 and map on pg. 47) 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. Park Service regulations prohibit camping and recreational vehicle use at the field campus.

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. 47), 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 share space in log cabins that include three single beds, a propane heater, and reading lights.

The cabins do not have electrical outlets or plumbing. 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 \$25 per night per person. 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	

- ☐ Check here if you'd like to receive Yellowstone Association information and updates such as additional course offerings and member benefits, or special discounts on items in the Park Store by mail or email.
(We do not share your e-mail address with others without your permission.)

Where can you be reached one month prior to the course? (if different from above)

ADDRESS	TELEPHONE
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- ☐ I have read the refund policy on pg. 42, 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. 46).

Course #	Title	Dates	Tuition

Lodging:

- ☐ I want to stay at the Institute cabins at Lamar the following nights at \$25/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 \$25 per person per night

Membership (optional)

Fill out membership information (see right)

Additional donation to Program Excellence Fund

\$10, \$20, or \$50. See fund description on pg 43.

Total Enclosed \$

Payment by: ☐ Check ☐ MasterCard ☐ Visa ☐ Discover

CREDIT CARD #	EXP. DATE
---------------	-----------

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

SIGNATURE

YAI-2004

Registered Participants,
Would you like to receive your course information faster while helping to save postage and paper?

- ☐ Check here if you would like to receive your pre-course information and student letter via email. If not, you will receive this information by mail approximately four weeks prior to the class.

Membership Information

- ☐ Renewing
☐ Joining for the first time

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

Annual Membership Dues:

- | | |
|-----------------------------------|--------|
| ☐ General | \$ 30 |
| ☐ Gibbon | \$ 50 |
| ☐ Firehole | \$ 100 |
| ☐ Lewis | \$ 250 |
| ☐ Madison | \$ 500 |

The Yellowstone Society

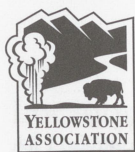
- | | |
|-----------------------------------|----------|
| ☐ Lamar | \$ 1,000 |
| ☐ Gallatin | \$ 2,500 |
| ☐ Bechler | \$ 5,000 |

Mail to:

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

Fax to: 307-344-2485

Telephone: 307-344-2294



Join the Yellowstone Association

YELLOWSTONE ASSOCIATION

Our Mission Statement:

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.

Yellowstone Association Institute courses are known to create life changing experiences for our participants. The Association developed the Institute to give visitors an opportunity to gain an in-depth and personal view of Yellowstone National Park, a magnificent national treasure. People fortunate enough to attend one of our courses appreciate the importance of continuing to preserve Yellowstone National Park.

Courses offered by the Institute are just one of the means by which the Yellowstone Association educates park visitors. In addition to offering these unique educational experiences in the park, the Association donates in excess of \$500,000 each year in support of educational projects for Yellowstone. Funding is provided to the National Park Service 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.

Becoming a member while registering for your course provides you with a tuition discount. You will also receive our informative quarterly, *Yellowstone Discovery*, throughout the year, and discounts on Association products. To become a member, please complete the membership section on the Institute registration form on page 45 or join online at www.YellowstoneAssociation.org.

For more information about the Association's membership program call 307-344-2289 or send an email to Members@yellowstoneassociation.org.

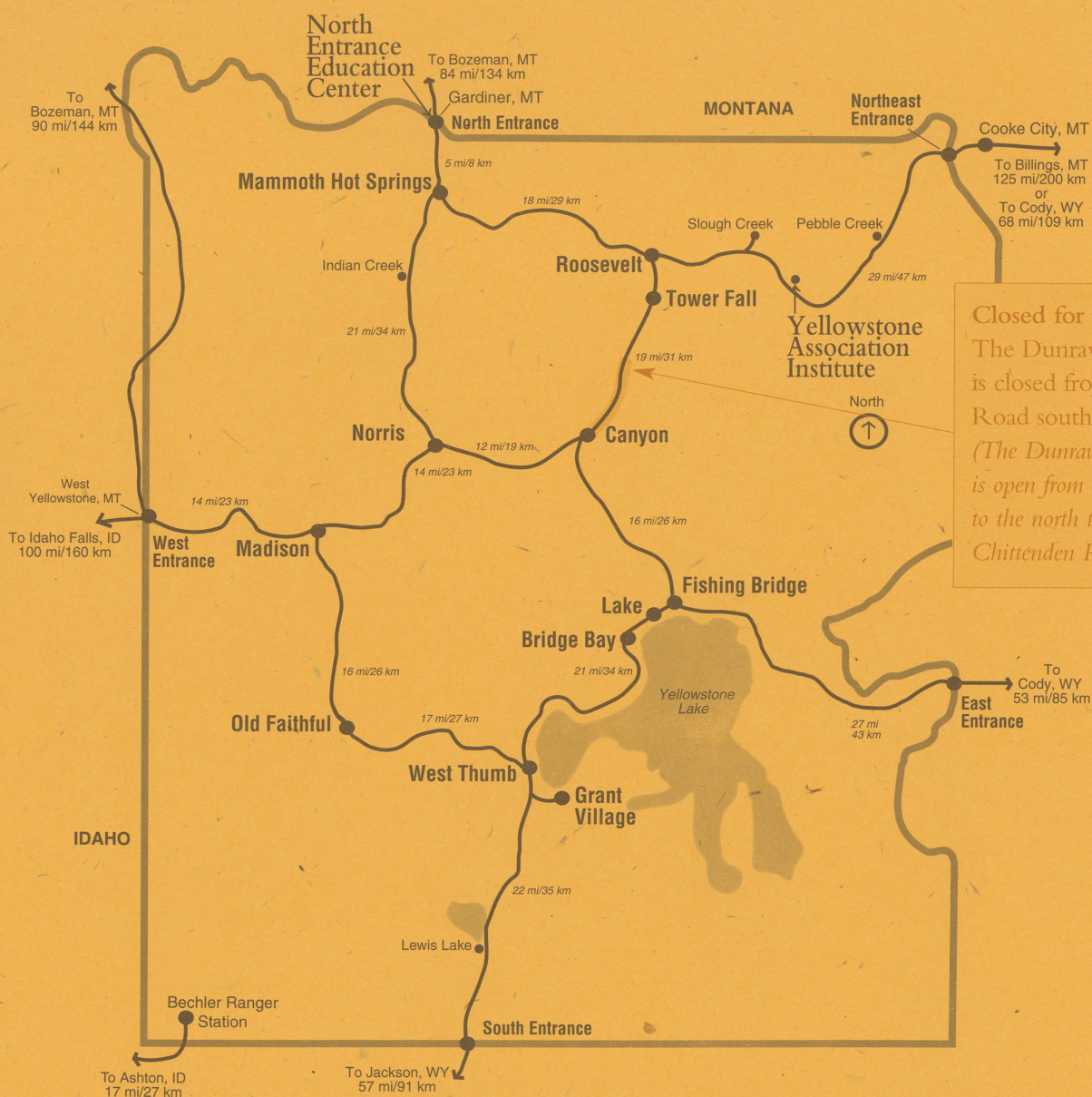
The Benefits of Membership in Yellowstone Association

Consider joining Yellowstone Association to receive the following benefits:

- A **family membership** (covering the entire family including children through age 18)
- **Discounts** on Yellowstone Association Institute field courses and products
- The opportunity to **register early 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 on our website: www.YellowstoneAssociation.org
- **Informative quarterly publications:** *Yellowstone Discovery* and the National Park Service's newspaper, *Yellowstone Today*
- Credit for a **tax-deductible gift**
- **Discounts** at many Association bookstores in visitor centers at other national parks
- Special off-season **lodging discounts** at Yellowstone National Park Lodges

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

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

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
800-225-5906
www.wyomingtourism.org

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



Yellowstone Association Institute

P.O. Box 117

Yellowstone National Park

Wyoming 82190

www.YellowstoneAssociation.org

FIRST CLASS

ADDRESS SERVICE REQUESTED