

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



YELLOWSTONE
ASSOCIATION
INSTITUTE

EDUCATIONAL PROGRAMS • SUMMER 2005



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YI Collection

www.YellowstoneAssociation.org

SUMMER 2005 EDUCATIONAL PROGRAMS

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 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, based in the park's two million acre backcountry, are each taught by a professional outdoor leader and a content expert.

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THE MISSION OF THE YELLOWSTONE ASSOCIATION:

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

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PERSONAL ED-VENTURES

May 15 to Labor Day

GROUP PROGRAMS

Available year-round



Photo: Jonmikel Pardo

Visit our website at www.YellowstoneAssociation.org

SUMMER 2005 LODGING & LEARNING PROGRAMS

~ 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. Rates listed are per person and do not include tax.

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



Photo: Jonmikel Pardo

SPRING 2005 PROGRAMS:

SPRING WOLF & BEAR DISCOVERY

Discover Yellowstone's wolves and bears with an Institute wildlife biologist. Field activities include optional sunrise and sunset trips in Yellowstone's Northern Range 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: Sunday to Wednesday and Thursday to Sunday from May 15 to June 5

Minimum Age: 12

Activity Level: Easy (1 to 3 mile hikes)

Maximum Group Size: 12

Location: Mammoth Hot Springs

Package Includes:

- Expert instruction by Institute wildlife biologist
- Lodging at Mammoth Hot Springs (four nights)
- Breakfast and box lunch daily, dinner on the last night
- In-park van transportation
- Optional evening programs

Rates:

\$545 Double Occupancy (member's rate \$535)
\$747 Single Occupancy (member's rate \$737) 🌿

NEW! SPRING WILDLIFE DISCOVERY

Yellowstone comes alive in springtime, and the wildlife viewing is superb. Experience the wildlife of Hayden Valley and Yellowstone Lake with an Institute wildlife biologist. Field activities include optional sunrise and sunset trips to look for Yellowstone's diverse wildlife species, from bison calves and bear cubs to coyotes and ravens. Two classroom presentations will focus on the ecology and conservation of Yellowstone's wildlife species.

Dates: Sunday to Wednesday and Thursday to Sunday from May 26 to June 5

Minimum Age: 12

Activity Level: Easy (1 to 3 mile hikes)

Maximum Group Size: 12

Location: Lake

Package Includes:

- Expert instruction by Institute wildlife biologist
- Lodging at Lake Lodge cabins (four nights)
- Breakfast and box lunch daily, dinner on the last night
- In-park van transportation
- Optional evening programs

Rates:

\$551 Double Occupancy (member's rate \$541)
\$759 Single Occupancy (member's rate \$749) 🌿

SUMMER 2005 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: Saturday to Wednesday from May 28 to October 1

Minimum Age: 12

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

Maximum Group Size: 12

Location: Mammoth Hot Springs and Grant Village

Package Includes:

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

Rates:

\$605 Double Occupancy (member's rate \$595)
\$823 Single Occupancy (member's rate \$813) 🌿

YELLOWSTONE FOR FAMILIES

Children ages 5 to 7 (New!) and 8 to 12 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. Grant Friday programs are for 5 to 7 year olds.

Dates: Monday to Friday and Friday to Tuesday from June 10 to August 26.

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

Maximum Group Size: 13

Location: Mammoth Hot Springs or Grant Village

Package Includes:

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

Rates:

Mammoth Rates:

\$572 Double Occupancy (member's rate \$562)
\$774 Single Occupancy (member's rate \$764)
\$348 Each Child (member's rate \$338)

Grant Rates:

\$605 Double Occupancy (member's rate \$595)
\$839 Single Occupancy (member's rate \$829)
\$348 Each Child (member's rate \$338) ❁

FALL 2005 PROGRAMS: ROOSEVELT RENDEZVOUS

Join us to discover Yellowstone's brief and 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.

Dates: Sept 9-13, Sept 13-17, Sept 17-21, and Sept 21-25

Minimum Age: 12

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

Maximum Group Size: 52 (Participants will break into small groups for daily field trips.)

Location: Roosevelt Lodge

Package Includes:

- Expert instruction by Institute naturalist/guides and guest speakers
- Lodging in a private cabin with shared bath at Roosevelt Lodge (four nights)
- 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 the 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 in Yellowstone's Northern Range will still 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: Sunday to Wednesday and Thursday to Sunday from September 11 to October 6

Minimum Age: 12

Activity Level: Easy (1 to 3 mile hikes)

Maximum Group Size: 12

Location: Mammoth Hot Springs

Package Includes:

- Expert instruction by Institute wildlife biologist
- Lodging at Mammoth Hot Springs (four nights)
- Breakfast and box lunch daily, dinner on the last night
- In-park van transportation
- Optional evening programs

Rates:

\$405 Double Occupancy (member's rate \$395)
\$548 Single Occupancy (member's rate \$538) ❁

NEW! FALL WILDLIFE DISCOVERY

Autumn is a time of activity and urgency as animals prepare for the cold months ahead. Join an Institute wildlife biologist to search for bears, bison, birds, and other wildlife amid the golden colors of this brief season. Field activities in the Yellowstone Lake and Hayden Valley areas will include short hikes in prime wildlife habitat and driving tours to look for animals at dawn and dusk. Two classroom presentations will focus on the ecology and conservation of Yellowstone wildlife.

Dates: Sunday to Wednesday and Thursday to Sunday from September 25 to October 6

Minimum Age: 12

Activity Level: Easy (1 to 3 mile hikes)

Maximum Group Size: 12

Location: Lake

Package Includes:

- Expert instruction by Institute wildlife biologist
- Lodging at Lake Lodge cabins (four nights)
- Breakfast and box lunch daily, dinner on the last night
- In-park van transportation
- Optional evening programs

Rates:

\$405 Double Occupancy (member's rate \$395)
\$548 Single Occupancy (member's rate \$538) ❁



Photo: Pam Cabill

SUMMER 2005 PERSONAL ED-VENTURES & GROUP PROGRAMS

PERSONAL ED-VENTURES

Personal Ed-Ventures are private natural history programs for families and other small groups. An experienced Institute instructor will meet you at a predetermined location for a personal introduction to Yellowstone. Our instructors enjoy sharing their knowledge with visitors of all ages. Programs are customized to the specific interests of your group, and can include a road-based "wildlife" or a more active "hiking" option.

Wildlife Option

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. We'll depart at sunrise to maximize viewing opportunities.

Hiking Option

Explore Yellowstone off-the-beaten path with an Institute naturalist. Carefully chosen hikes explore Yellowstone's diverse landscapes and backcountry gems. Hike difficulty and duration are tailored to your group's ability level.

The program cost includes all instruction, in-park van 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 seven people (member's rate \$340), \$50 for each additional person, up to 14

Locations: An Institute instructor will meet you at Mammoth Hot Springs, Gardiner, Montana, Cooke City, Montana, Lamar Valley Buffalo Ranch, or Roosevelt Lodge. ☼

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

GROUP PROGRAMS

Expert instructors from the Institute are available to teach short courses for nonprofit organizations, universities, extended families, and other groups of eight or more people. Our standard courses focus on the natural history of Yellowstone and typically last from one to five days. We can accommodate a limited number of groups at our Lamar Buffalo Ranch field campus (primarily in November, December, and August), and we regularly work with local lodging businesses including Yellowstone National Park Lodges.

We also can work with colleges and universities to design custom academic programs taught by Institute instructors with advanced degrees and highly specialized knowledge of Yellowstone. The content, length, and location of these programs can be varied to meet the needs of the sponsoring institution.

Group programs include all instruction, in-park transportation, park entrance fees (for multi-day courses), classroom space, and program materials including spotting scopes. Participants provide their own lodging, meals, personal clothing, and other equipment. Programs are 8 to 10 hours per day and are usually scheduled 3 to 6 months in advance.

Rates:

We charge a flat fee of \$550 per day for 8 to 14 participants (1 instructor), and \$1100 per day for 14 to 28 participants (2 instructors). The fee for custom college programs is \$650 per day for 8 to 14 participants or \$1300 per day for 14 to 28 participants. The flat fee for lodging at our field campus, when available, is \$275 per day for 8 to 14 participants and \$550 per day for 14 to 28 participants.

To arrange a group program, please contact program manager Jenny Golding at 406-848-2169 or jgolding@yellowstoneassociation.org. ☼



Photo: Jonmikel Pardo

Visit our website at www.YellowstoneAssociation.org

2005 SUMMER FIELD SEMINARS

These courses provide an in-depth look at specific subjects, from nature writing to wolf biology. They are based in locations throughout the park and taught by college professors, field biologists, and other experts. Courses based at our field campus, the historic Buffalo Ranch, are marked "Lamar." Courses based out of our North Entrance Education Center in Gardiner, Montana (MT) are marked "Gardiner." Several courses are based in the park interior at historic park hotels and are marked as such.

SELECTING AN APPROPRIATE COURSE:

The Institute rates the physical difficulty of each field seminar in order to assist you in selecting an appropriate course for your physical condition. Most Institute courses include some amount of hiking, unless otherwise indicated. To rate the difficulty of each course, we consider distance, pace, elevation gain, and terrain.

 Minimal Activity - Hikes of 0 to 1 mile per day through relatively flat terrain on maintained trails.

 Easy - Hikes of 1 to 3 miles per day with climbs up to 250 feet, some off-trail walking.

 Easy to Moderate - Brisk hikes of 3 to 5 miles per day with climbs up to 500 feet, through some moderate terrain.

 Moderate - Brisk aerobic hikes of 5 to 8 miles per day (rest stops as needed) with climbs up to 1000 feet on dirt trails that may have loose rock and uneven footing, or off-trail hiking.

 Strenuous - Brisk aerobic destination-oriented hiking of 8 to 12 miles per day with climbs up to 2000 feet off-trail or on dirt trails with loose rock, uneven footing, steep hillside traverses, and stream crossings.

Please note that these guidelines are not hard and fast formulas. For instance, a hike in strenuous terrain can be taken at a moderate pace, thus changing the real difficulty of the field trip. To get the most precise information about each activity, please refer to your student letter, or contact the registrar at 307-344-2294.

#501 WATERFOWL IDENTIFICATION & ECOLOGY



Start: April 29 at 7:30 pm, Gardiner
End: May 1 at 3:00 pm
Instructor: Terry McEneaney
Credit Pending
\$170 (member's fee \$160) Limit: 8

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 the first evening for an introductory lecture. Rooms have been set aside at the Super 8 in Gardiner. Call 800-800-8000 for rates and reservations. ❁

#503 WILDLIFE WATCHING IN GRIZZLY COUNTRY



Start: May 4 at 10:00 am, Gardiner
End: May 6 at 4:00 pm
Instructor: Gene Ball
\$225 (member's fee \$215) Limit: 12

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. There will be an optional evening outing on the last day. Rooms have been set aside at the Super 8 in Gardiner. Call 800-800-8000 for rates and reservations. ❁

#504 SPRING WILDLIFE ON THE NORTHERN RANGE



Start: May 7 at 9:00 am, Gardiner
End: May 9 at 4:00 pm
Instructor: Jim Garry, M.S.
\$225 (member's fee \$215) Limit: 12

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. Rooms have been set aside at the Super 8 in Gardiner. Call 800-800-8000 for rates and reservations. ❁



Photo: NPS

#505 IN THE BEAR'S DEN: AN INTRODUCTION TO BEAR DENNING & HIBERNATION



Start: May 8 at 8:00 am, Gardiner
End: May 8 at 5:00 pm
Instructor: Kerry A. Gunther, M.S.
\$75 (member's fee \$65) Limit: 12

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. 🌸

#506 THE BIG THREE: LIONS, WOLVES, & GRIZZLY BEARS



Start: May 9 at 7:00 pm, Gardiner
End: May 12 at 4:00 pm
Instructors: James Halfpenny, Ph.D.,
Kerry Murphy, Ph.D., & Jim Garry, M.S.
\$245 (member's fee \$235) Limit: 11

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, James 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. Rooms have been set aside at the Super 8 in Gardiner. Call 800-800-8000 for rates and reservations. 🌸

#508 WOLF NATIONS: DYNAMICS OF A RECOVERED POPULATION



Start: May 13 at 8:00 am, Gardiner
End: May 15 at 4:00 pm
Instructor: Nathan Varley, Ph.D. candidate
Credit Pending
\$225 (member's fee \$215) Limit: 12

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. Rooms have been set aside at the Super 8 in Gardiner. Call 800-800-8000 for rates and reservations. 🌸

#509 THE WOLVES OF YELLOWSTONE



Start: May 17 at 9:00 am, Gardiner
End: May 19 at 4:00 pm
Start: August 24 at 9:00 am, Gardiner
End: August 26 at 4:00 pm
Start: September 7 at 9:00 am, Gardiner
End: September 9 at 4:00 pm
Start: October 3 at 9:00 am, Gardiner
End: October 5 at 4:00 pm
Instructor: Jim Garry, M.S.
\$225 (member's fee \$215) Limit: 12

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. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. 🌸

#510 WILDERNESS FIRST AID



Start: May 18 at 8:00 am, Lamar
End: May 19 at 5:00 pm
Instructor: Wilderness Medicine Institute Staff
Credit Pending
\$155 (member's fee \$145) Limit: 24

Fast paced and hands-on, this two-day course covers a wide range of wilderness medicine topics for people who travel in the outdoors. Whether spending time in the backcountry is your passion or your profession, you should never have to ask, "What do I do now?" On this course, you'll learn how to prepare for the unexpected. WMI's curriculum is unique and includes many advanced topics that other programs leave out such as dislocation reduction, focused spinal assessment and epinephrine administration. You'll have the knowledge, skills and ability to make sound decisions in emergency situations. This course is ideal for trip leaders, camp staff, outdoor enthusiasts and individuals in remote locations. May be used to recertify as a Wilderness First Responder. No previous certification is required, CPR not included. ❁

#511 COMPLETE WILDLIFE PHOTOGRAPHY: ART, ECOLOGY & STEWARDSHIP



Start: May 20 at 8:30 am, Gardiner
End: May 22 at 4:00 pm
Instructor: Pete Bengueyfield, M.S.
Credit Pending
\$225 (member's fee \$215) Limit: 12

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. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. ❁

#512 NEW! ARTISTIC FIELD JOURNALING IN YELLOWSTONE



Start: May 20 at 9:00 am, Lamar
End: May 23 at 2:00 pm
Instructor: Eleanor Williams Clark, M.L.A.
\$315 (member's fee \$305) Limit: 10

Spring in Lamar is an inspiring time of birth and regeneration. It is an artistically motivating experience to spend early mornings and evening in the field watching the events of the natural world unfold. Novice and experienced students will find opportunities for artistic expansion and development as we explore the wildlife and landscapes in the Lamar Valley. We will spend time in the field observing followed by time gaining attention to details such as fur, feathers and other intricacies using study skins and mounted specimens. We will also collect the experiences of the class into a bound booklet with a session on bookbinding and the artistic elements of sketchbooks. Fee includes \$15 for course materials. ❁

#513 WOLF WATCHING IN YELLOWSTONE



Start: May 20 at 7:00 pm, Lamar
End: May 23 at Noon
Instructor: Norman A. Bishop
Credit Pending
\$225 (member's fee \$215) Limit: 12

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. ❁

#514 SPRING RETURNS TO YELLOWSTONE



Start: May 21 at 9:00 am, Lake
End: May 23 at 4:00 pm
Instructor: Jim Garry, M.S.
\$225 (member's fee \$215) Limit: 12

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. Rooms have been set aside in the Lake area. Call 307-344-5566 for rates and reservations. ❁



Photo: Pam Cabill



Photo: NPS

#515 MAMMAL TRACKING: INTERPRETING TRACKS, SCAT & OTHER SIGNS



Start: May 24 at 9:00 am, Lamar
End: May 27 at 5:00 pm
Start: July 11 at 9:00 am, Lamar
End: July 14 at 5:00 pm
Instructor: James Halfpenny, Ph.D.
Credit Pending
\$330 (member's fee \$320) Limit: 12

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. Fee includes \$30 for a copy of *A Field Guide to Mammal Tracking* plus other course materials. 🌿

#516 WE ARE NOT FOOLS YET! CROW INDIAN CULTURE & YELLOWSTONE NATIONAL PARK



Start: May 28 at 9:00 am, Lamar
End: May 30 at 4:00 pm
Instructors: Timothy P. McCleary, M.A. & Marvin B. Dawes, Sr.
Credit Pending
\$230 (member's fee \$220) Limit: 20

Join us (one Crow tribal historian 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. Fee includes \$5 for course materials. 🌿

#517 RIPPLE EFFECT: THE ECOLOGY OF WOLF RESTORATION



Start: May 30 at 7:00 pm, Lamar
End: June 2 at Noon
Start: June 29 at 7:00 pm, Lamar
End: July 2 at Noon
Instructor: Norman A. Bishop
Credit Pending
\$235 (member's fee \$225) Limit: 12

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. Fee includes \$10 for course materials. 🌿

#518 NEW! DECADE OF THE WOLF



Start: May 31 at 9:00 pm, Gardiner
End: May 31 at 5:00 pm
Instructor: Douglas Smith, Ph.D.
\$75 (member's fee \$65) Limit: 20

This year marks the tenth anniversary of wolf reintroduction – an event that some have described as the conservation success story of the century. This classroom session with the leader of Yellowstone's wolf project will review the process and examine the ongoing challenges of wolf reintroduction in Yellowstone and the Northern Rockies. Presentations by the instructor will be mixed with group discussion about the past, present, and future of wolves in Yellowstone. The entire course will take place at the Institute's North Entrance Education Center in Gardiner. 🌿

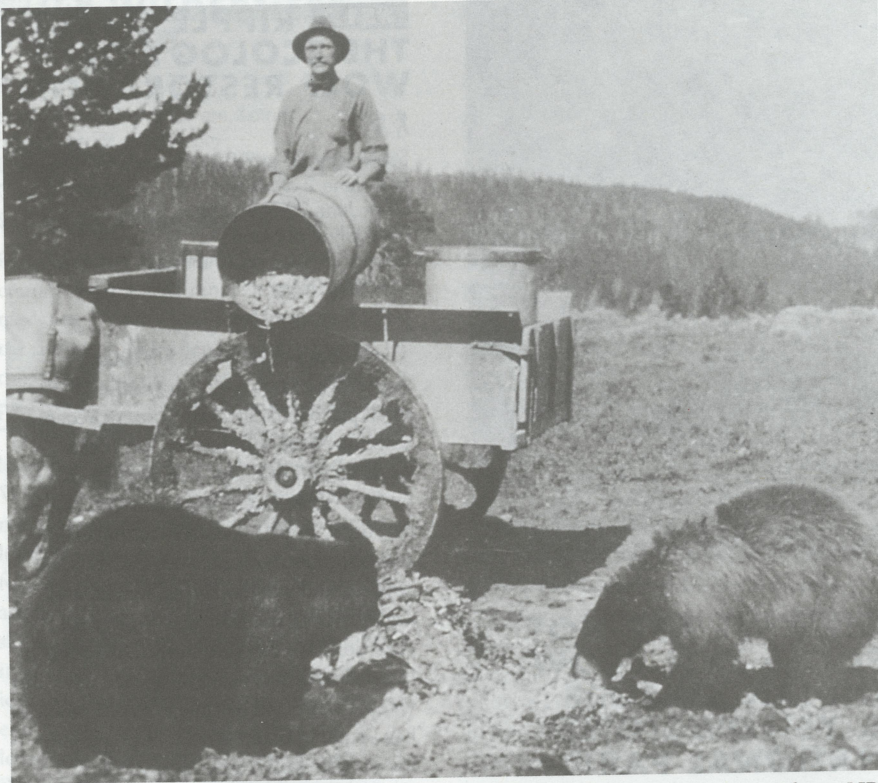


Photo: NPS

#519 MOUNTAIN DWELLERS OF THE YELLOWSTONE ECOSYSTEM



Start: May 31 at 9:00 am, Lamar
End: June 2 at 3:00 pm
Instructor: Terry Enk, Ph.D.
\$225 (member's fee \$215) Limit: 12

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. 🌿

#602 NEW! GREATER YELLOWSTONE GRIZZLIES: FROM DUMPS TO RECOVERY?



Start: June 2 at 6:00 pm, Lamar
End: June 5 at Noon
Instructors: Sue Consolo Murphy, M.S. & Mark Haroldson
Credit Pending
\$245 (member's fee \$235) Limit: 11

Have Yellowstone's grizzly bears recovered? What are the challenges and threats they face (and pose) within the Yellowstone ecosystem? Explore the bears' natural and cultural 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 for a picnic at 6:00 pm the first night. Fee includes \$20 for course materials. 🌿

#603 FROM BISON TO BIGHORN: THE HOOFED MAMMALS OF YELLOWSTONE



Start: June 3 at 9:00 am, Lamar
End: June 5 at 4:00 pm
Instructors: Harold Picton, Ph.D. & Terry Enk, Ph.D.
\$225 (member's fee \$215) Limit: 11

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. 🌿

#604 NEW! LIFE ON THE EDGE



Start June 6 at 9:00 am, Gardiner
End: June 8 at 3:00 pm
Instructor: Susan Kelly, M.S.
\$225 (member's fee \$215) Limit: 12

Do the words Chemolithotrophy, PCR, and Sulfolobus make you scratch your head? Join scientists from the Thermal Biology Institute (TBI) to learn more about Yellowstone's unique high-temperature systems and increase your vocabulary at the same time! After a classroom-style introduction, the course will continue with field trips into the park (Norris and Upper Geyser Basins, Mud Volcano) where you will study thermophilic diversity firsthand. TBI faculty will share specific expertise about microbes that make their living eating arsenic and sulfur; viruses that live in boiling battery acid; and thermotolerant plants that survive in soil temperatures over 120°F! Class discussion will include biomedical applications of Yellowstone microbes and possible microbial links to life on other planets. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. 🌿

#605 BEARS: BONES, SIGNS & STORIES



Start: June 6 at 9:00 am, Lamar
End: June 9 at 4:00 pm
Instructors: James Halfpenny, Ph.D. & Jim Garry, M.S.
Credit Pending
\$320 (member's fee \$310) Limit: 11

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. James 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. Fee includes \$20 for course materials. 🌸

#607 SPRING WILDFLOWERS



Start: June 7 at 9:00 am, Lamar
End: June 8 at 4:00 pm
Instructor: Jennifer Whipple, M.A.
\$150 (member's fee \$140) Limit: 12

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 subalpine 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. 🌸

#609 MAMMALS-GREAT & SMALL



Start: June 9 at 8:30 am, Lamar
End: June 12 at 4:00 pm
Instructor: Don Streubel, D.A.
Credit Pending
\$300 (member's fee \$290) Limit: 12

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. 🌸

#610 THE EVOLUTION, ECOLOGY & FUTURE OF THE WOLF FAMILY



Start: June 10 at 9:00 am, Lamar
End: June 12 at 5:00 pm
Instructors: James Halfpenny, Ph.D. & Jim Garry, M.S.
Credit Pending
\$245 (member's fee \$235) Limit: 11

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 Dr. James 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 ancestral wolves to interpretation of their sign to compelling renditions of classic wolf tales, this course conveys a uniquely broad view of wolves throughout the world and throughout time. Optional sunrise field trips emphasizing wolf observation and reintroduction into Yellowstone will supplement morning and afternoon lectures. Fee includes \$20 for course materials. 🌸



Photo: Pam Cabill

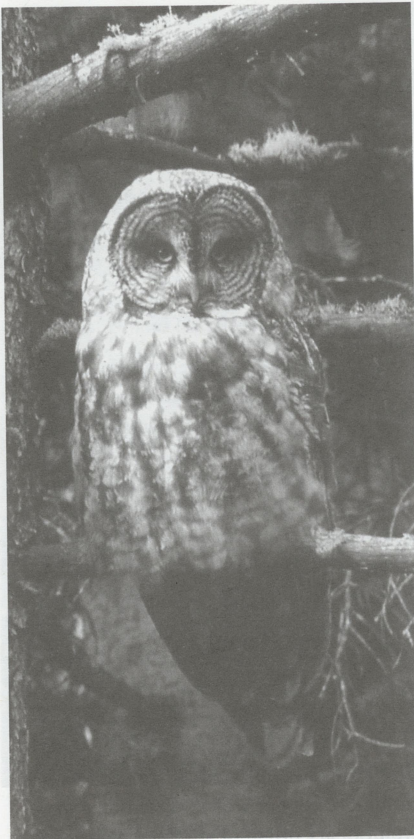


Photo: Pam Cabill

#611 WILDLIFE ARTISTS & ILLUSTRATORS



Start: June 14 at 7:00 pm, Lake
End: June 16 at 4:00 pm
Instructor: Gene Ball
\$170 (member's fee \$160) Limit: 12

Focusing on the work of wildlife artists and illustrators in America from the days of exploration and settlement to the present, this course will explore the development of wildlife art, themes of the artists, parallels with movements to conserve and restore wildlife populations, the guidebook phenomenon of the twentieth century, the blending of wild subjects with the elements of art, omissions in wildlife art, and the array of contemporary art prints and reproductions. Field trips to the Buffalo Bill Historical Center in Cody and the National Museum of Wildlife Art in Jackson will be featured (admission not included). The class will headquarter at Lake with the initial session at 7:00 pm on the first day and ending late afternoon on the last day. Rooms have been set aside in the Lake area. Call 307-344-5566 for rates and reservations. 🌸

#613 NATURE PHOTOGRAPHY IN YELLOWSTONE: THE DIGITAL IMAGE



Start: June 15 at 9:00 am, Gardiner
End: June 18 at 4:00 pm
Instructor: Sandra Nykerk
\$235 (member's fee \$225) Limit: 11

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. Image editing programs and image adjustment techniques will also be demonstrated and discussed. 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. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. 🌸

#614 IN CELEBRATION OF BIRDS



Start: June 17 at 7:00 pm, Old Faithful
End: June 18 at 4:00 pm
Instructor: Katy Duffy, M.S.
\$95 (member's fee \$85) Limit: 12

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. Rooms have been set aside at Old Faithful. Call 307-344-5566 for rates and reservations. 🌸



Photo: Shirley Cope

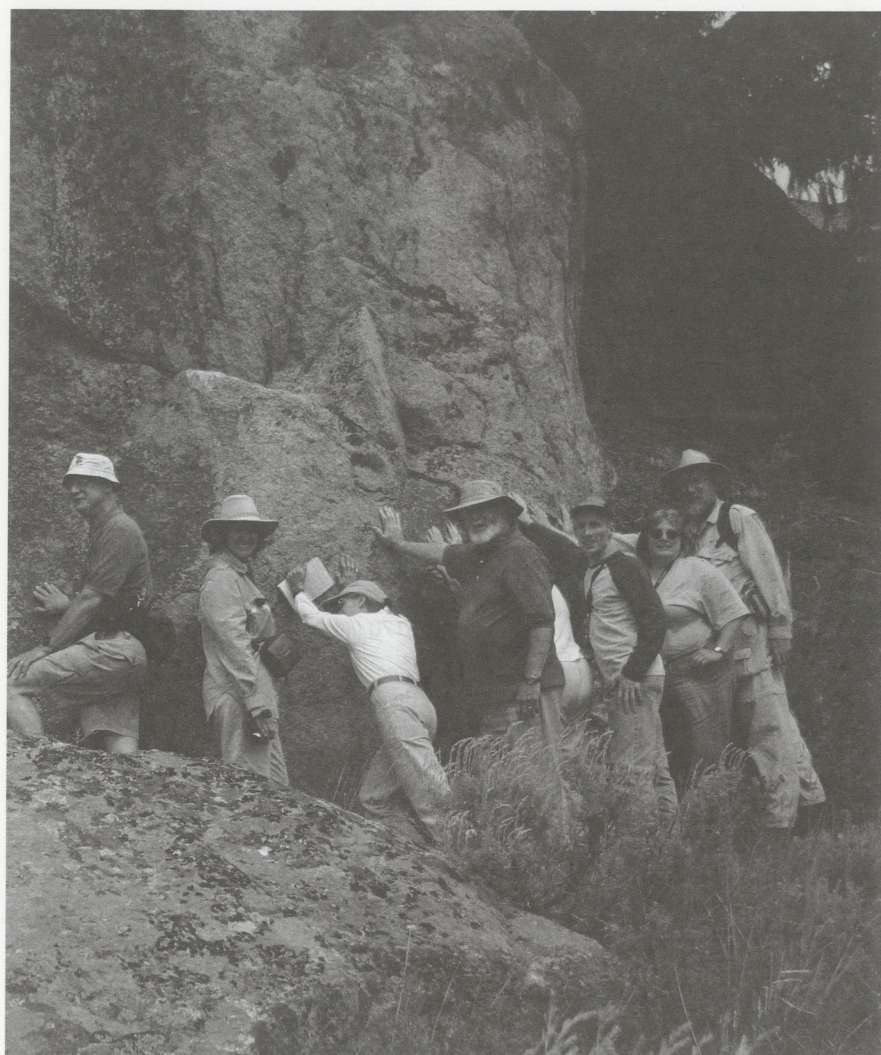


Photo: Jonmikel Pardo

#615 WILDFLOWERS FOR BEGINNERS



Start: June 19 at 8:30 am, Mammoth
End: June 19 at 5:00 pm
Instructor: William C. Edwards, Ph.D.
\$75 (member's fee \$65) Limit: 12

Over 1000 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. 🌿

#616 NEW! STORY & HISTORY IN WONDERLAND



Start: June 19 at 9:00 am, Lamar
End: June 21 at 4:00 pm
Instructor: Jim Garry, M.S.
\$225 (member's fee \$215) Limit: 12

As the ancient Greek historians suggested, never let the facts get in the way of a good story. Join us for three days of remembering how the park was ... and how it should have been ... through the tales of the mountain men, stagecoach robberies, biological folklore, and tourists. Much of Yellowstone's history depends on the recollector. This course will look at the two most common means of conveying information about Yellowstone: history and folklore. We'll do it by telling the stories that the two use to recollect Yellowstone. 🌿

#617 WOLVES—REALITY & MYTH



Start: June 19 at 7:00 pm, Lamar
End: June 21 at 3:00 pm
Instructor: Nathan Varley, Ph.D. candidate
\$170 (member's fee \$160) Limit: 12

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. 🌿

#618 YELLOWSTONE TIME TRAVEL: HIKING INTO THE GEOLOGICAL PAST



Start: June 21 at 7:00 pm, Lamar
End: June 24 at 4:00 pm
Instructor: Robert W. Spoelhof, Ph.D.
Credit Pending
\$245 (member's fee \$235) Limit: 12

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 Lamar for an illustrated geology presentation. 🌿

#619 PREDATOR CONSERVATION IN THE GREATER YELLOWSTONE ECOSYSTEM



Start: June 22 at 8:30 am, Lamar
End: June 23 at 4:00 pm
Instructors: Steve Primm, M.A. & Jason Wilmot, M.E.M.
Credit Pending
\$150 (member's fee \$140) Limit: 12

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 ten 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. 🌿

#620 THE YELLOWSTONE VOLCANO: A RESTLESS GIANT



Start: June 24 at 7:00 pm, Lake
End: June 26 at 3:00 pm
Instructors: Henry Heasler, Ph.D. & Cheryl Jaworowski, Ph.D.
\$170 (member's fee \$160) Limit: 11

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. Rooms have been set aside in the Lake area. Call 307-344-5566 for rates and reservations. 🌿



Photo: Pam Cabill

#621 LEARNING BIRDS BY SOUND



Start: June 24 at 7:30 pm, Lamar
End: June 26 at 3:00 pm
Instructor: Terry McEneaney
\$170 (member's fee \$160) Limit: 8

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. 🌿

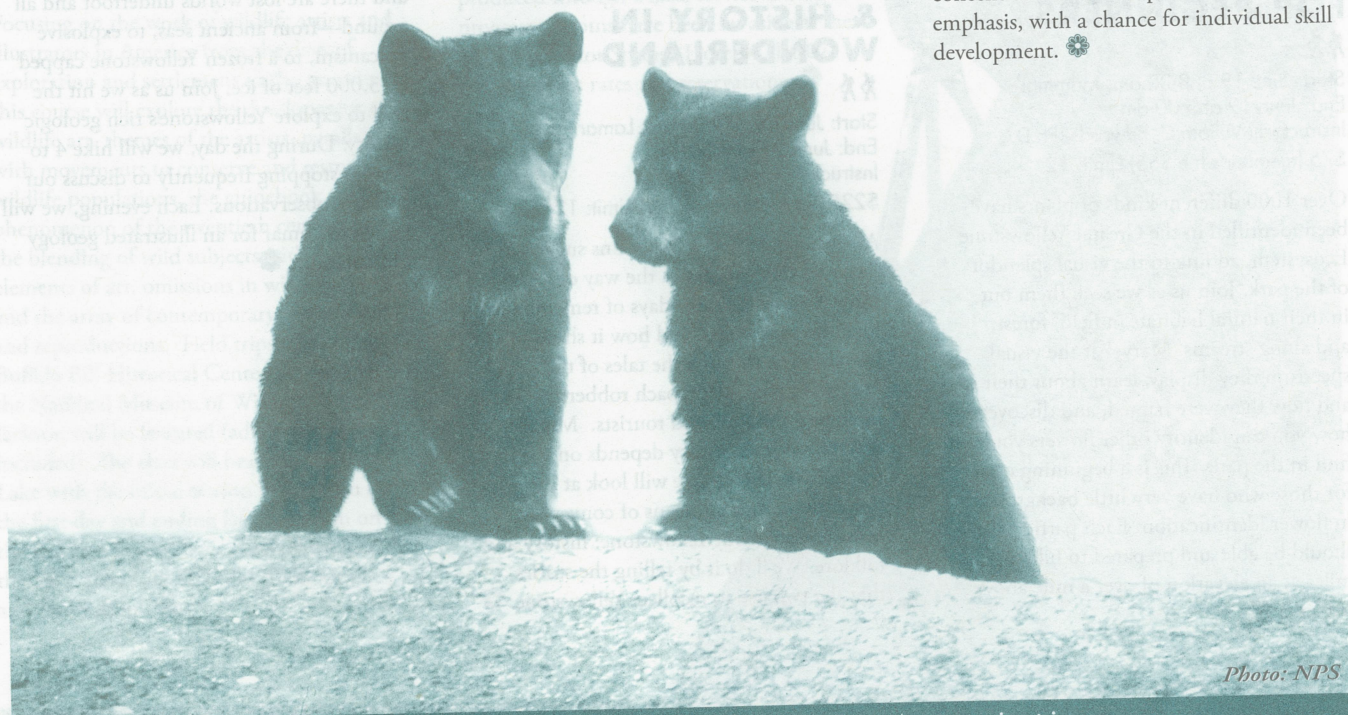


Photo: NPS

Visit our website at www.YellowstoneAssociation.org

#623 NATIVE TRAILS & TALES: A DAY HIKE ON THE BANNOCK INDIAN TRAIL



Start: July 25 at 8:00 am, Mammoth
End: July 25 at 4:00 pm
Instructor: Rosemary Sucec, M.A.
\$75 (member's fee \$65) Limit: 12

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. 🌿



Photo: Jonmikel Pardo

#624 WOLVES OF THE WORLD



Start: June 25 at 9:00 am, Lamar
End: June 27 at 4:00 pm
Instructors: Douglas Smith, Ph.D. & Christine Smith
Credit Pending
\$225 (member's fee \$215) Limit: 11

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. 🌿

#625 EXPLORING YELLOWSTONE BY MAP & COMPASS



Start: June 26 at 9:00 am, Old Faithful
End: June 26 at 4:00 pm
Instructor: Orville E. Bach, Jr., Ed.D.
\$75 (member's fee \$65) Limit: 12

Yellowstone's off-trail backcountry contains an abundance and variety of unique and seldom-visited natural phenomena, such as lakes and waterfalls, 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. 🌿

#626 WORDS INSPIRED BY WILDERNESS I



Start: June 27 at 9:00 am, Lamar
End: June 30 at 4:00 pm
Instructor: Alan Kesselheim
Credit Pending
\$300 (member's fee \$290) Limit: 12

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. 🌿

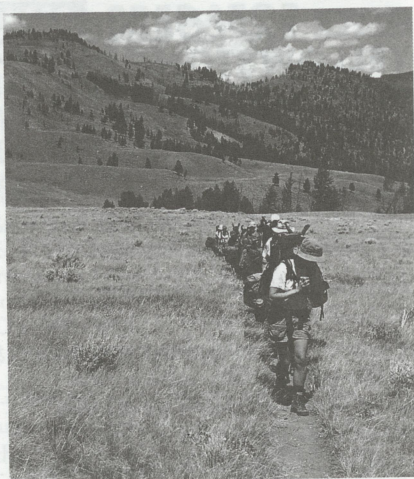


Photo: Michael Sample

#627

YELLOWSTONE'S GEOECOSYSTEM



Start: June 29 at 8:00 am, Mammoth
End: July 1 at 4:00 pm
Instructor: Paul K. Doss, Ph.D.
Credit Pending
\$225 (member's fee \$215) Limit: 12

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. Participants should have a small overnight bag for the stay at Lake on the second night. Rooms have been set aside at Mammoth and Lake. Call 307-344-5566 for rates and reservations. 🌿

#628 RIPPLE EFFECT: THE ECOLOGY OF WOLF RESTORATION



Start: June 29 at 7:00 pm, Lamar
End: July 2 at Noon
(See description on pg. 11) 🌿

#629 YELLOWSTONE WATERFALLS



Start: June 29 at 7:00 pm, Grant
End: July 2 at 3:00 pm
Instructor: Earle Layser, M.S.
\$245 (member's fee \$235) Limit: 12

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 up 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 5 miles of walking each day. Rooms have been set aside at Grant Village, Canyon and Old Faithful. Call 307-344-5566 for rates and reservations. 🌿

#701 A TRAIL THROUGH LEAVES



Start: July 1 at 9:00 am, Lamar
End: July 4 at Noon
Instructor: Hannah Hinchman
\$300 (member's fee \$290) Limit: 12

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. 🌿

#702 DAY HIKING THE WILD YELLOWSTONE



Start: July 2 at 7:30 pm, Lamar
End: July 5 at 4:00 pm
Start: September 2 at 7:30 pm, Lamar
End: September 5 at 4:00 pm
Instructor: Julianne Baker, M.A.
\$245 (member's fee \$235) Limit: 12

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 1500-foot elevation gains, so come prepared to breathe the air that "is electric and full of ozone." 🌿



Photo: Pam Cabill

#703 SNEAK PEEK SCIENCE & STEWARDSHIP: DEEP DISCOVERIES



Dates: TBA, 6 days between July 1 & August 15

Instructor: Dave Lovalvo Eastern Oceanics, Inc.

\$695 (member's fee \$685) Limit: 6

Fee does not include meals or lodging.

Yellowstone Lake has long been a focal point for park visitors who are drawn to its scenic splendor and many changing moods. Cutting edge scientific research over the last 20 years has shown that there is much to discover at the bottom of the lake as well. New technology—multi-beam sonar mapping and the use of a Remote-Operated Vehicle (ROV)—has allowed researchers a glimpse into previously unexplored hydrothermal activity on the lake's bottom. As part of on-going projects, teams have discovered strange stalagmite-like spires, hot springs, hydrothermal vents and previously active explosion craters. In 2005, researchers will now also begin the exploration of Lewis Lake. As a volunteer steward on this research project for 6 days, you will join researchers Lisa Morgan, PhD, USGS, Pat Shanks, PhD, USGS, Jim Maki, PhD, Marquette University, and Dave Lovalvo, Eastern Oceanics, Inc. as an important working member of the team. Stewards will split their time between land-based and lake-based data gathering activities. Land-based efforts involve cutting, identifying, and cataloging geological specimens around the lake. Lake-based efforts are aboard the "Cutthroat" research vessel, and include all tasks that regular crew members must share; tying and untying dock lines, pulling anchors, reading electronics, operating radios, tending umbilical cables for the ROV, setting up sensors, recording data, and driving the boat. No prior experience is necessary, but physical fitness, motivation, enthusiasm, and the desire to learn are key ingredients for a successful outcome. Expect to rise by 4:30 am and join the team for a hard day's work, sometimes in inclement weather. This experience is not for the faint of heart or those seeking a leisure vacation. However, if you want to share in the camaraderie of a team whose work will make a lasting contribution toward understanding the complexities of geothermal activity in Yellowstone Lake, this is truly a once-in-a-lifetime opportunity. Call registrar for more information at 307-344-2294. ❁



Photo: Pam Cabill

#704 INTRODUCTION TO YELLOWSTONE'S GEOLOGICAL LANDSCAPES



Start: July 3 at 8:00 am, Mammoth

End: July 3 at 6:00 pm

Instructor: Paul K. Doss, Ph.D.

\$75 (member's fee \$65) Limit: 12

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. ❁

#705 BUTTERFLIES OF THE GREATER YELLOWSTONE ECOSYSTEM



Start: July 6 at 9:00 am, Lamar

End: July 8 at 5:00 pm

Instructor: Robert Anderson, Ph.D.

Credit Pending

\$225 (member's fee \$215) Limit: 12

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. ❁

#707 THE ART OF WILDFLOWER IDENTIFICATION



Start: July 7 at 8:30 am, Lamar
End: July 9 at 3:00 pm, 2005
Instructor: Meredith E. Campbell
\$225 (member's fee \$215) Limit: 12

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, plants distributions, 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. 🌸

#708 NATURE PHOTOGRAPHY IN YELLOWSTONE



Start: July 7 at 9:00 am, Gardiner
End: July 10 at 4:00 pm
Instructor: Sandra Nykerk
\$310 (member's fee \$300) Limit: 11

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! Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. 🌸

#709 ARTISTIC FIELD JOURNALS



Start: July 7 at 9:00 am, Old Faithful
End: July 10 at 2:00 pm
Instructor: Eleanor Williams Clark, M.L.A.
\$315 (member's fee \$305) Limit: 10

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. Rooms have been set aside at Old Faithful. Call 307-344-5566 for rates and reservations. Fee includes \$15 for course materials. 🌸

#710 LICHENS & MOSSES IN YELLOWSTONE NATIONAL PARK



Start: July 9 at 9:00 am, Lamar
End: July 9 at 5:00 pm
Instructor: Sharon Eversman, Ph.D.
\$75 (member's fee \$65) Limit: 12

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. You'll need a sack lunch, and if you have a hand lens or little magnifying glass it would be good to bring it. During the field trip, we will get off paths to walk short distances to streams and boulders; the walks have moderate changes in elevation. 🌸



Photo: Pam Cahill



Photo: Jonmikel Pardo

#711 ALPINE WILDFLOWERS



Start: July 9 at 7:00 pm, Lamar
End: July 11 at 4:00 pm
Instructor: John S. Campbell, Ph.D.
Credit Pending
\$170 (member's fee \$160) Limit: 12

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 region of the Beartooth Plateau. Participants should be able to hike 1 to 3 miles at elevations over 10,000 feet. 🌿

#712 "THIRTY-SEVEN DAYS OF PERIL": THE TRUMAN EVERTS STORY



Start: July 10 at 8:00 am, Lamar
End: July 10 at 5:00 pm
Instructor: Julianne Baker, M.A.
\$75 (member's fee \$65) Limit: 12

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. We'll explore 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? 🌿

#713 MAMMAL TRACKING: INTERPRETING TRACKS, SCAT & OTHER SIGNS



Start: July 11 at 9:00 am, Lamar
End: July 14 at 5:00 pm
(See description on pg. 11) 🌿

#714 THE HISTORY OF WILDLIFE IN YELLOWSTONE



Start: July 12 at 9:00 am, Lamar
End: July 14 at 4:00 pm
Instructors: Lee Whittlesey, M.A., J.D., Ph.D. (Hon.) & James Pritchard, Ph.D.
Credit Pending
\$225 (member's fee \$215) Limit: 11

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. 🌿

#715 ALONG THE YELLOWSTONE RIVER WITH LEWIS & CLARK



Start: July 13 at 9:00 am, Mammoth
End: July 15 at 3:00 pm
Credit Pending
Instructor: Jim Garry, M.S.
\$225 (member's fee \$215) Limit: 10

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

#716 THE LESSER-KNOWN CARNIVORES OF THE GREATER YELLOWSTONE ECOSYSTEM



Start: July 15 at 9:00 am, Lamar
End: July 17 at 4:00 pm
Instructor: James Halfpenny, Ph.D.
Credit Pending
\$240 (member's fee \$230) Limit: 12

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. Fee includes \$15 for course materials. 🌿

#717 GLACIATION & THE GEOLOGY OF NORTHERN YELLOWSTONE



Start: July 15 at 9:00 am, Lamar
End: July 17 at 5:00 pm
Instructor: Kenneth Pierce, Ph.D.
Credit Pending
\$225 (member's fee \$215) Limit: 12

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 and to soft shaley sediments. Grasslands 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. 🌿

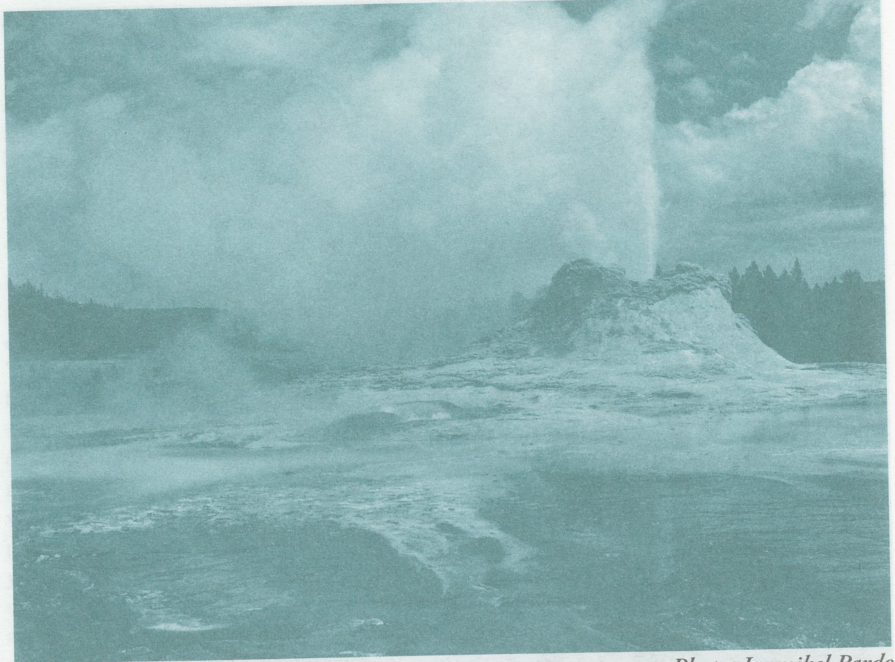


Photo: Jonmikel Pardo

#719 GEYSERS, MUD POTS & HOT SPRINGS



Start: July 16 at 9:00 am, Old Faithful
End: July 18 at 4:00 pm
Start: July 19 at 9:00 am, Old Faithful
End: July 21 at 4:00 pm
Instructor: Duncan Foley, Ph.D.
Credit Pending
\$240 (member's fee \$230) Limit: 12

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. The class will spend the first day looking at the plumbing of hydrothermal systems, and surface features at Mud Volcano and along the shores of Yellowstone Lake. 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. Rooms have been set aside at Old Faithful. Call 307-344-5566 for rates and reservations. Fee includes \$15 for course materials. 🌿

#720 NEW! PLANTS OF THE LEWIS & CLARK EXPEDITION



Start: July 18 at 8:30 am, Lamar
End: July 19 at 4:00 pm
Instructor: Wayne Phillips
\$160 (member's fee \$150) Limit: 12

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 211 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 botanical walks in the field and short illustrated lectures at Lamar. The Journals of Lewis and Clark will be referred to for the explorers comments on the plants encountered. Plants that the Corps found the various Native Americans using for food and medicine will be emphasized. The course will focus on the plants the Corps found in the high plains and Rocky Mountains. 🌿

#721 GEYSERS, MUD POTS & HOT SPRINGS



Start: July 19 at 9:00 am, Old Faithful
End: July 21 at 4:00 pm
(See description above) 🌿

#722 ALPINE ECOLOGY IN THE BEARTOOTH



Start: July 19 at 4:00 pm, Cooke City, MT
End: July 21 at 4:00 pm
Instructor: James Halfpenny, Ph.D.
Credit Pending
\$230 (member's fee \$220) Limit: 12

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 at elevations of 11,000 to 12,000 feet. Rooms have been set aside in Cooke City—contact registrar for lodging information. Fee includes \$5 for course materials. 🌸

#723 WILDFLOWERS & WILDFIRE



Start: July 20 at 9:00 am, Lamar
End: July 21 at 4:00 pm
Instructor: Wayne Phillips
\$160 (member's fee \$150) Limit: 12

Fires raged in forests throughout the park in the summer of 1988. 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 re-colonizing 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 revisited, 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. Fee includes \$10 for course materials. 🌸

#724 DAY HIKING THE BEARTOOTH



Start: July 21 at 7:30 pm, Cooke City, MT
End: July 24 at 4:00 pm
Instructor: Julianne Baker, M.A.
\$245 (member's fee \$235) Limit: 12

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 1500-foot elevation gains. Rooms have been set aside in Cooke City—contact registrar for lodging information. 🌸

#726 GHOST HOTELS OF YELLOWSTONE



Start: July 23 at 8:00 am, Old Faithful
End: July 23 at 5:00 pm
Instructor: Leslie J. Quinn, M.Ed.
\$75 (member's fee \$65) Limit: 12

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). 🌸



Photo: NPS

#727 OLD TIMES AT OLD FAITHFUL



Start: July 24 at 9:00 am, Old Faithful
End: July 24 at 5:00 pm
Instructor: Leslie J. Quinn, M.Ed.
\$75 (member's fee \$65) Limit: 15

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. 🌸

#728 FLY-FISHING FOR WOMEN I



Start: July 25 at 10:00 am, Gardiner
End: July 27 at 7:00 pm
Instructor: Rhea Topping
\$300 (member's fee \$290) Limit: 6

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. Meet the first day with your fly rod and reel. 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 the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. Fee includes \$15 for course materials (flies and textbook). 🌸

#729 FAMILY WONDER WEEK



Start: July 25 at 9:00 am, Lamar
End: July 28 at 4:00 pm
Instructor: Ellen Petrick-Underwood, M.S.
\$315 Adult (member's fee \$305)
\$235 Child (member's fee \$225)
Limit: 20

"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. Fee includes \$15 for course materials 🌸

#730 FLY-FISHING FOR WOMEN II



Start: July 29 at 10:00 am, Gardiner
End: July 31 at 7:00 pm
Instructor: Rhea Topping
\$300 (member's fee \$290) Limit: 6

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! 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 the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. Fee includes \$15 for course materials (flies and textbook). 🌸

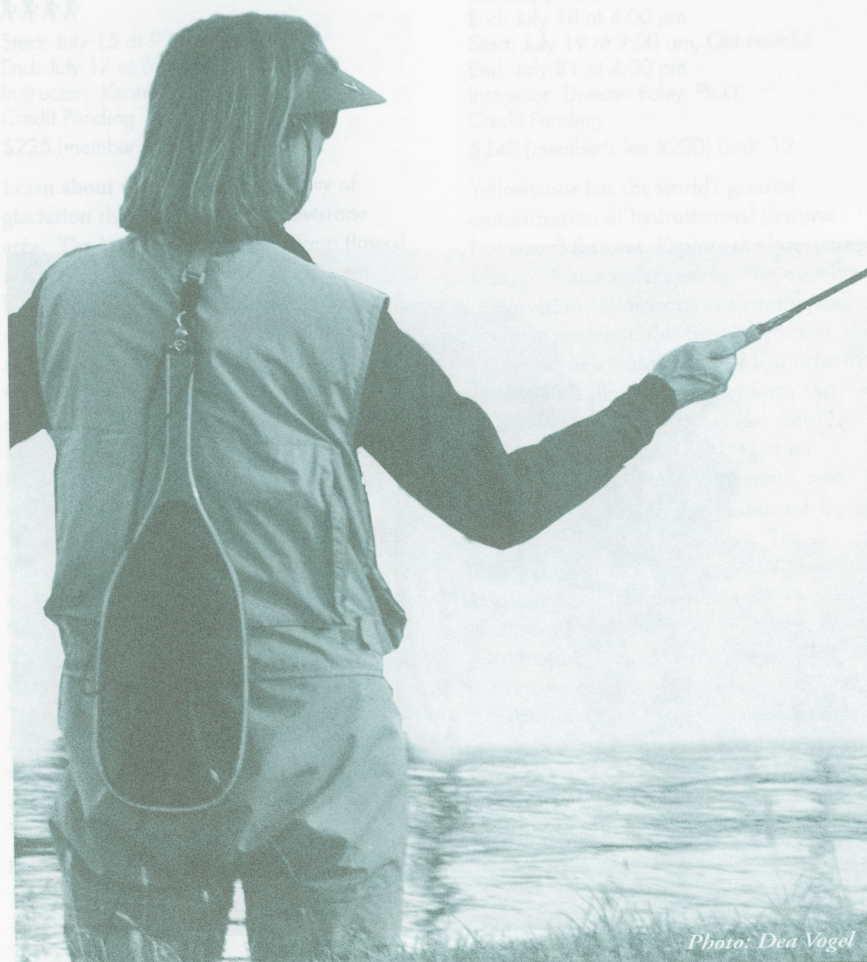


Photo: Dea Vogel

Visit our website at www.YellowstoneAssociation.org



Photo: Pam Cahill

#731 THE BISON OF YELLOWSTONE



Start: July 30 at 9:00 am, Lamar
End: August 1 at 3:00 pm
Instructors: Jim Garry, M.S. & Harold Picton, Ph.D.
Credit Pending
\$225 (member's fee \$215) Limit: 11

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 nineteenth 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. 🌿

#732 MAP, COMPASS, GPS & STARS ACROSS YELLOWSTONE



Start: July 31 at 7:00 pm, Lamar
End: August 2 at 3:00 pm
Instructor: James Halfpenny, Ph.D.
\$180 (member's fee \$170) Limit: 12

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. Fee includes \$10 for course materials. 🌿

#801 NEW! TRUE TO LIFE ON THE WING: THE ART & SCIENCE OF DRAWING FLYING FAUNA



Start: August 3 at 8:30 am, Lamar
End: August 5 at 4:00 pm
Instructors: Peg Steunenberg & George Bumann, M.S.
\$225 (member's fee \$215) Limit: 11

Learn to draw the winged creatures of Yellowstone. Students, from the beginner to the expert, will expand their knowledge and drawing skills while learning the science behind the flying creatures of Greater Yellowstone. With over 300 species of birds, 140 butterflies, over 50 dragonfly species, bats, and even flying squirrels, there will be no lack of inspiration. Class will emphasize basic drawing skills and progress into exercises and demonstrations using taxidermy and skeletal specimens to build your confidence and proficiency with pencil, ink, and paints. There will also be plenty of time to 'wing it' in the field, unearthing the magic of these special animals in action. Students will take home an in-depth understanding of different mediums and their application, as well as the mechanics of flight, animal anatomy, ecology, physiology, and behavior. See the winged world in a different way – then draw what you see! 🌿

#802 DAY HIKING THE CASCADE CORNER



Start: August 6 at 7:30 pm, Bechler area
End: August 9 at 4:00 pm
Instructor: Julianne Baker, M.A.
\$245 (member's fee \$235) Limit: 12

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. 🌸

#803 INTRODUCTION TO MAMMAL TRACKING



Start: August 7 at 8:00 am, Track Museum in Gardiner
End: August 7 at 5:00 pm
Instructor: James Halfpenny, Ph.D.
\$80 (member's fee \$70) Limit: 12

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. Fee includes \$5 for course materials. 🌸

#804 LEGENDARY YELLOWSTONE WOLVES



Start: August 7 at 7:00 pm, Lamar
End: August 10 at noon
Instructor: Norman A. Bishop
Credit Pending
\$220 (member's fee \$210) Limit: 12

Join us to review the history of wolf restoration and the stories of several of Yellowstone's legendary wolves. After a first evening of introductory stories, we will go afield 3 mornings and 2 evenings by bus and foot to view the current players on the northern Yellowstone elk herd's winter range; mostly in Lamar Valley. We may walk as far as 3 miles, and climb several hundred feet on rough, steep terrain to get a better viewpoint, or to visit the Rose Creek acclimation pen. At midday, we'll learn the stories of the park's historic wolves from astute observers, and from videos and slides of the legendary wolves that preceeded the ones we'll watch at dawn and dusk. 🌸

#806 SHAPING THE NORTHERN YELLOWSTONE LANDSCAPE



Start: August 8 at 9:00 am, Lamar
End: August 10 at 3:00 pm
Instructor: Grant A. Meyer, Ph.D.
Credit Pending
\$225 (member's fee \$215) Limit: 12

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. 🌸



Photo: Jonmikel Pardo



Photo: NPS

#807 GEOLOGY OF YELLOWSTONE LAKE



Start: August 11 at 7:00 pm, Lake
End: August 14 at 4:00 pm
Instructor: Lisa Morgan, Ph.D.
Credit Pending
\$245 (member's fee \$235) Limit: 12

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. Rooms have been set aside in the Lake area. Call 307-344-5566 for rates and reservations. 🌲

Start: September 7 at 9:00 am, Gardiner
End: September 9 at 4:00 pm
Instructor: George Burdick, M.A.
(See description on pg. 9) 🌲
Photo: NPS

#808 YELLOWSTONE'S NORTHERN ROADSIDE HISTORY



Start: August 15 at 8:30 am, Gardiner
End: August 17 at 4:00 pm
Instructor: Lee Whittlesey, M.A., J.D., Ph.D. (Hon.)
Credit Pending
\$225 (member's fee \$215) Limit: 12

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. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. 🌲

Room
Hot
rates and

#809 WONDERLAND'S SERENE SPOT: HISTORY ON YELLOWSTONE LAKE



Start: August 16 at 9:00 am, Lake
End: August 16 at 4:00 pm
Instructor: Leslie J. Quinn, M.Ed.
\$95 (member's fee \$85) Limit: 10

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, Captain Ela Collins Waters. Historic photographs will help us recreate the past scenes of Lake and Fishing Bridge Villages. Fee includes \$20 for boat trip. 🌲

#811 WILD EDIBLE PLANTS & MEDICINAL HERBS



Start: August 20 at 8:00 am, Bechler area
End: August 22 at 4:00 pm
Instructor: Robyn Klein, Herbalist,
A.H.G., M.S.
Credit Pending

\$235 (member's fee \$225) Limit: 12

The blue camas meadows, ponds, aspen groves, and coniferous forests in the Bechler area between Yellowstone and Grand Teton National Parks were an important food and medicine gathering area for early Americans. This is an exceptional area to study the edible and medicinal properties of many native plants of the West. Field identification of wild plants, major poisonous plants of the area, and gentle-harvesting techniques will be emphasized. Participants will learn to develop their own wild food meals and herbal preparations. Our headquarters will be a Forest Service cabin at Squirrel Meadows, on the road between Ashton, Idaho, and Flagg Ranch, near the South Entrance to the park. Be prepared for short, leisurely walks of 1 to 3 miles with an elevation gain/loss of 300 feet. 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.

#812 DAY HIKING THE YELLOWSTONE LAKE AREA



Start: August 20 at 7:30 pm, Lake
End: August 23 at 4:00 pm
Instructor: Julianne Baker, M.A.
\$245 (member's fee \$235) Limit: 12

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 2000-foot elevation gains, so bring the boots that are your feet's best friend. Rooms have been set aside in the Lake area. Call 307-344-5566 for rates and reservations.

#815 THE WOLVES OF YELLOWSTONE



Start: August 24 at 9:00 am, Gardiner
End: August 26 at 4:00 pm
Instructor: George Bumann, M.S.
(See description on pg. 9)

#816 BEARS: FOLKLORE & BIOLOGY



Start: August 29 at 9:00 am, Lamar
End: August 31 at 4:00 pm
Instructors: Jim Garry, M.S. &
Harold Picton, Ph.D.
Credit Pending
\$225 (member's fee \$215) Limit: 11

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.



Photo: Journal Photo: NPS

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#901 NEW! WORDS INSPIRED BY WILDERNESS II



Start: September 2 at 9:00 am, Lamar
End: September 5 at 4:00 pm
Instructor: Alan Kesselheim
Credit Pending
\$300 (member's fee \$290) Limit: 12

This is a four-day course designed to meet the needs of writers interested in pushing their efforts to the next level. Like the entry-level course of the same title, the advanced version immerses participants in the issues of rendering experiences and personal insights into powerful and vivid pieces of writing. Many of the topics and issues engaged in the beginning class are presented in a more thorough and intense fashion, including the process of "diving in" to scenes, the power to show rather than tell as a writer, hitching anecdotal material to more universal themes, using editing strategies to tighten and strengthen essays, and highlighting specific details in a scene. Course days will combine field outings, formal presentations, and free time to reflect and write. Students will be challenged to develop and hone an essay or other piece of original work, and to provide feedback to the other writers in the group. As the days progress, students will work more and more independently, much like a writer's group where we come together to discuss issues and provide feedback. Words Inspired by Wilderness--II is a response to the enthusiasm of participants in the entry-level course who were motivated to push their pieces farther. It is appropriate for students who have taken writing workshops before, or who engage the work of writing on a regular basis, and who want to progress to the next stage. 🌿

#902 DAY HIKING THE WILD YELLOWSTONE



Start: September 2 at 7:30 pm, Lamar
End: September 5 at 4:00 pm
(See description on pg. 18) 🌿

#903 THE WOLVES OF YELLOWSTONE



Start: September 7 at 9:00 am, Gardiner
End: September 9 at 4:00 pm
Instructor: George Bumann, M.S.
(See description on pg. 9) 🌿



Photo: Michael Sample

#904 RAPTOR IDENTIFICATION & ECOLOGY



Start: September 16 at 7:30 pm, Gardiner
End: September 18 at 3:00 pm
Instructor: Terry McEneaney
\$170 (member's fee \$160) Limit: 8

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. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. 🌿

#906 FLY-FISHING IN THE FALL



Start: September 19 at 8:30 am, Gardiner
End: September 21 and 4:00 pm
Instructor: Richard Parks
\$300 (member's fee \$290) Limit: 9

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. Yellowstone Park fishing permits are required and available at most visitor centers. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. 🌿

#907 AUTUMN WILDLIFE IN YELLOWSTONE



Start: September 20 at 9:00 am, Gardiner
End: September 22 at 4:00 pm
Instructor: Jim Garry, M.S.
\$225 (member's fee \$215) Limit: 12

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. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations.

#908 NEW! FALL WRITING & ECOLOGY



Start: September 22 at 9:00 am, Gardiner
End: September 25 at 4:00 pm
Instructors: James Halfpenny, Ph.D. & Ann Zwinger
\$305 (member's Fee \$295) Limit: 11

A perfect chance to find out what nature writing's all about! Writing assignments for a fall essay will build on daily observations and experiences, synthesizing the different approaches of science and art. Students can explore different ways of writing that combine their immediate outdoor experience with careful research, and using literary skills, begin an essay on the glories and fascination of fall. Time will be blocked out for both class and individual discussion of writing techniques and approaches. The final assignment, an essay on fall, will be turned into instructors a week after class for evaluations and criticism. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations.

#909 AUTUMN PHOTOGRAPHY IN YELLOWSTONE



Start September 24 at 9:00 am, Gardiner
End: September 27 at 4:00 pm
Instructor: Sandra Nykerk
\$310 (member's fee \$300) Limit: 11

Join us to explore the many photographic opportunities of autumn in Yellowstone—from bugling elk to the delicate colors of the changing landscape. This program is designed for photographers of varying levels, but a working understanding of photographic theory 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. Participants will be expected to pay for their own lab film processing. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations.



Photo: Pam Cabill

#910 NEW! AUTUMN ELK ECOLOGY



Start: September 25 at 7:00 pm, Gardiner
End: September 27 at 4:00 pm
Instructor: Don Streubel, D.A.
\$170 (member's Fee \$160) Limit: 12

The cool, crisp September air in Yellowstone reverberates with the loud, piercing bugle of bull elk. The bulls, with their harems, are easily observed during the fall rut in Yellowstone and borders on spectacular when bulls interact with each other and with the cows in their harem. This class will focus on their not so private reproductive behavior and will also explore their life history, population dynamics and how they fit into the large and complex Yellowstone ecosystem. We will observe rutting elk in the Mammoth area, but will also travel about in the northern range of Yellowstone, doing moderate, short hikes where we can observe elk and their habitat. In addition to their reproductive behavior, we will consider all aspects of elk life history, such as their impact on the ecosystem, their food habits, their predators, their distribution in the ecosystem, and habitat requirements. We'll meet in the classroom for introductory lecture the first evening but will spend the next two days entirely in the field where the action is occurring. Rooms have been set aside at the Mammoth Hot Springs Hotel. Call 307-344-5566 for rates and reservations. 🌸

#911 AUTUMN DAY HIKING IN YELLOWSTONE



Start: September 26 at 9:00 am, Mammoth
End: September 28 at 4:00 pm
Start: September 30 at 9:00 am, Old Faithful
End: October 2 at 4:00 pm
Instructors: Melissa Pangraze & Edward Schauster, M.S.
\$225 (Member's fee \$215) Limit: 11

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 1500 feet. Participants must be in good physical condition. Rooms have been set aside at Mammoth for the first session and Old Faithful for the second. Call 307-344-5566 for rates and reservations. 🌸

#912 NEW! AUTUMN DAY HIKING IN YELLOWSTONE



Start: September 30 at 9:00 am, Old Faithful
End: October 2 at 4:00 pm
(See description on pg. 31) 🌸

#1001 THE WOLVES OF YELLOWSTONE



Start: October 3 at 9:00 am, Gardiner
End: October 5 at 4:00 pm
Instructor: George Bumann, M.S.
(See description on pg. 9) 🌸



Photo: Pam Cabill

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2005 BACKCOUNTRY COURSES

Institute backpacking courses are for physically fit adults who want to experience the Yellowstone wilderness in a small group with expert instructors. Beginning this year, all courses will be led by two people: 1) a "backcountry instructor" with expertise in wilderness travel including minimum-impact camping and bear safety, and 2) a "content instructor" with expertise in a specific subject (for example, wolves or photography) related to Yellowstone.

Every backpacking course begins with a full day in the frontcountry to review the route, expected physical demands, bear safety, 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. 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 per day) through relatively flat terrain.
- ② Moderately paced backpacks with moderate hikes (6 to 8 miles per day) through undulating terrain.
- ③ Moderately paced backpacks with moderate hikes (6 to 8 miles per day) through sometimes rough and steep terrain.
- ④ Aggressive backpacks with long hikes (8 to 13 miles per day) through sometimes rough and steep terrain.
- ⑤ Aggressive and extended backpacks of 7 days or longer with long hikes (8 to 13 miles per day) through sometimes rough and steep terrain.



Photo: Pam Cabill

#502 BLACK CANYON WILDLIFE BACKPACK

Start: May 3 at 9:00 am, Gardiner
End: May 7 at 4:00 pm
Difficulty Level: ③ Location: Black Canyon
Instructors: Nathan Varley, Ph.D. candidate & Melissa Pangraze
\$500 (member's fee \$490) Limit: 8

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 areas. 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. 🌿

#507 YELLOWSTONE WOLF BASECAMP

Start: May 12 at 9:00 am, Gardiner
End: May 15 at Noon
Difficulty Level: ③ Location: Hellroaring
Instructors: Dan Stahler, M.S. & Melissa Pangraze
\$400 (member's fee \$390) Limit: 8
Start: June 14 at 9:00 am, Gardiner
End: June 17 at Noon
Difficulty Level: ② Location: Coyote Creek/
Buffalo Plateau
Instructors: Nathan Varley, Ph.D. candidate & Melissa Pangraze
\$400 (member's fee \$390) Limit: 8

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. 🌿



Photo: Pam Cabill

#601 SLOUGH CREEK GRIZZLY BEAR BASECAMP

Start: June 1 at 9:00 am, Gardiner
End: June 4 at 4:00 pm
Difficulty Level: ② Location: Slough Creek
Instructors: Jim Garry, M.S. & Melissa Pangraze
\$400 (member's fee \$390) Limit: 8

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 the backcountry practices that can help to 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. 🌿

#606 LEAVE NO TRACE BACKPACKING MASTER COURSE

Start: June 6 at 9:00 am, Lamar
End: June 10 at 4:00 pm
Difficulty Level: ② Location: Lower Black Canyon
Instructors: Ivan Kowski & Melissa Pangraze
\$800 Limit: 10



This Master Course enables successful graduates to teach basic Leave No Trace (LNT) certification courses. The Master Course provides participants with a comprehensive overview of 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. For registration and tuition information, contact National Outdoor Leadership School at 307-335-2213. 🌿

#608 NEW! BLACK CANYON COUGAR ECOLOGY TREK

Start: June 9 at 9:00 am, Gardiner
End: June 12 at 4:00 pm
Difficulty Level: ④ Location: Hellroaring/
Black Canyon
Instructors: Toni Ruth, Ph.D. & Greg Gordon, M.S.
\$400 (member's fee \$390) Limit: 8

Rocky terrain and steep, broken canyon sidewalls mixed with small grassy meadows . . . purr-fect cougar habitat! Come enjoy the thrill of hiking the Black Canyon; one of the most important year-round areas used by Yellowstone cougars. Along the trail we will look for tracks, scats, and other sign of cougars and other carnivore species. During the trek and in camp you will learn about cougar food habits, habitat use, interactions with other carnivore species, and conservation and management issues within and beyond the borders of Yellowstone. The course will also cover safe hiking practices in cougar country and what to do in the rare event you encounter a cougar. We're unlikely to see a cougar, but odds are much better that one may be watching us as we trek through the canyon and out to Gardiner. 🌿

#612 YELLOWSTONE WOLF BASECAMP

Start: June 14 at 9:00 am, Gardiner
 End: June 17 at Noon
 Difficulty Level: ② Location: Coyote Creek/
 Buffalo Plateau
 Instructors: Nathan Varley, Ph.D. Candidate
 & Melissa Pangraze
 (See description on pg. 33)

#706 MIRROR PLATEAU WOLF BACKPACK

Start: July 6 at 9:00 am, Gardiner
 End: July 10 at 4:00 pm
 Difficulty Level: ④ Location: Mirror Plateau
 Instructors: Dan Stahler, M.S. &
 Melissa Pangraze
 \$500 (member's fee \$490) Limit: 8

At the height of summer, the wolves of Yellowstone's Northern Range 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 their habitat. 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). 🌲

#718 PELICAN VALLEY GRIZZLY BEAR BASECAMP

Start: July 15 at 9:00 am, Gardiner
 End: July 18 at 4:00 pm
 Difficulty Level: ④ Location: Pelican Valley
 Instructors: Kerry A. Gunther, M.S. &
 Angela Patnode
 \$400 (member's fee \$390) Limit: 8

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. 🌲

#725 HOODOO BASIN BASECAMP

Start: July 22 at 9:00 am, Gardiner
 End: July 28 at 4:00 pm
 Difficulty Level: ④ Location: Sunlight Basin/
 Hoodoo Basin
 Instructors: Jim Garry, M.S. &
 Angela Patnode
 \$700 (member's fee \$690) Limit: 8

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. 🌲



Photo: NPS

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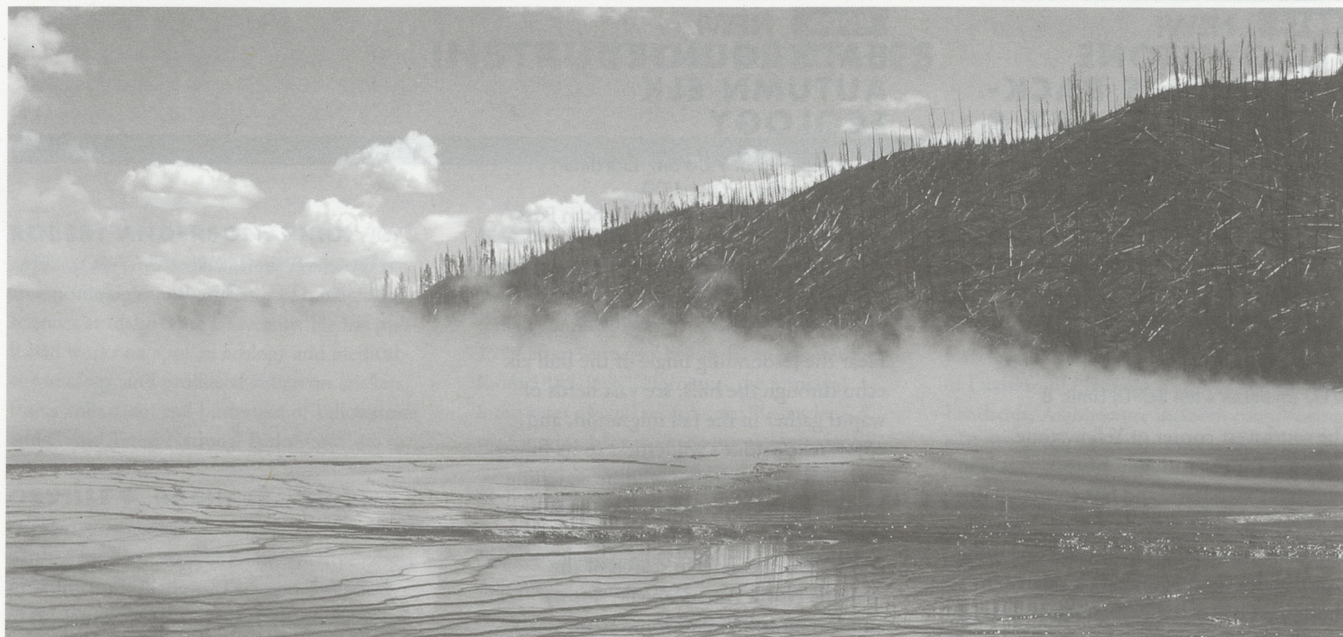


Photo: Pam Cahill

#805 FLIGHT OF THE NEZ PERCE BACKPACK

Start: August 7 at 9:00 am, Gardiner
End: August 12 at 4:00 pm
Difficulty Level: 5 Location: Lamar River/
Miller Creek/Hoodoos/Sunlight Basin
Instructors: Lee Whittlesey, M.A., J.D., Ph.D.
(Hon.), Rosemary Sucec, M.A., &
Angela Patnode
\$600 (member's fee \$590) Limit: 8

Learn about the Nez Perce Indians and their dramatic 1877 foray through Yellowstone by heading into the backcountry to follow portions of their actual route. historian Lee Whittlesey (an expert on the Yellowstone route of the Nez Perce) and cultural anthropologist Rosemary Sucec (currently working with the Nez Perce to develop interpretive media for the trail in Yellowstone) will accompany you on a trip from the Lamar River to the head of Miller Creek to Hoodoo Basin to Sunlight Basin. Along the way we will discuss the known historic accounts of the trek, the possible alternate routes that various groups of Indians might have taken, as well as some of the Nez Perce history and traditions associated with Yellowstone prior to the 1877 war. We will also hear about the significance of the trail to contemporary Nez Perce. ❁

#810 NEW! WILDERNESS PHOTOGRAPHY

Start: August 16 at 9:00 am, Bridge Bay
End: August 20 at 4:00 pm
Difficulty Level: 2 Location: Southeast Arm of
Yellowstone Lake
Instructors: Tom Murphy & Melissa Pangraze
\$700 (member's fee \$690) Limit: 8

Join adventure photographer Tom Murphy on a special trip to one of his favorite places on Earth - the wilderness of Yellowstone National Park. This course begins with a boat ride to a remote campsite along the Southeast Arm of Yellowstone Lake. From that base camp, participants will venture into the surrounding Thorofare region on daily photography field trips. This course is designed for beginner to intermediate photographers who want to experience Yellowstone's wild core. The instructor will focus on landscape composition, ethics, and wildlife behavior as well as the technical challenges of backcountry photography. Course fee includes boat transportation on the first and last days. ❁

#813 NEW! EXPLORING YELLOWSTONE'S MICROBES BACKPACK

Start: August 22 at 9:00 am, Gardiner
End: August 26 at 4:00 pm
Difficulty Level: 4 Location: Shoshone
Geyser Basin
Instructors: Anna-Louise Reysenbach, Ph.D. &
Greg Gordon, M.S.
\$700 (member's fee \$690) Limit: 6

Yellowstone is one of the best natural laboratories for learning about microorganisms. Essential to life on earth, many of these microbes work wonders in a world invisible to the naked eye, yet in the hot springs they reveal themselves as colorful mats. Yellowstone's thermal springs are home to a vast diversity of microbes that thrive at extremes most life would not. In this microbial 'walkabout' to Shoshone Geyser Basin, we will explore the environments in which these organisms thrive and study their role in rebuilding fire-disturbed soils, the fundamental role microbes play in the nutrition of bison, and how microbes thrive in extreme environments such as high temperatures and high radiation. We will consider their biotechnological value and why managing microbial resources is important to the park, and consider whether Yellowstone's thermal springs might reveal something about life on other planets, and how life may have evolved on Earth. ❁

#814 NEW!
YELLOWSTONE
WATERFALLS BACK-
PACK — HISTORY &
DISCOVERY FROM
OLD FAITHFUL TO
BECHLER

Start: August 22 at 11:00 am, Bechler area
End: August 28 at 4:00 pm
Difficulty Level: ② Location: Bechler
Instructors: Mike Yochim, Ph.D. &
Angela Patnode
\$700 (member's fee \$690) Limit: 8

The southwest corner of Yellowstone National Park is as rich in history as it is in waterfalls, meadows, and hot springs. Join us to explore these wonders as we hike up over the Continental Divide and down the lush Bechler Canyon, taking a sidetrip to Shoshone Geyser Basin and a layover day for rest, soaking, and waterfall exploration. In addition to the area's Indian history, we will take a close look at two controversies centered in this region: whether to build a railroad through it, and whether to dam and flood the region for Idaho potato farmers' irrigation needs in the 1920s. Both controversies involved arguments over the meaning of the national park idea, with repercussions that still resound today. We'll also discuss wilderness ideas and management, the changing values behind national parks, and the area's geology and ecology. There will be plenty of time for quiet walking, good conversation, and simple enjoyment of the Cascade Corner during late summer's golden days. ❁

#905 NEW!
BACKCOUNTRY
AUTUMN ELK
ECOLOGY

Start: Sept. 16 at 9:00 am, Gardiner
End: September 20 at 4:00
Difficulty Level: ④ Location: Bighorn Pass/
Fawn Pass
Instructors: Nathan Varley, Ph.D. candidate
& Greg Gordon, M.S.
\$500 (member's fee \$490) Limit: 8

Hear the resounding bugle of the bull elk echo through the hills, see vast herds of wapiti gather in the fall migration, and enjoy Yellowstone's wilderness to its fullest with this one-of-a-kind wildlife watching backpack trip. Spend four days traveling through some of the park's premiere elk and wildlife habitats in search of the majestic North American elk. Frosty autumn mornings and some crisp, starry evenings will be spent in the company of elk as they gather, feed, and migrate to low-elevation winter ranges. Our route will traverse the wildlife-rich valley of Gardner's Hole, ascend Fawn Pass over the Gallatin Mountains, and pass the headwaters of the Gallatin River at Bighorn Pass as we circle back to our beginning. Observe, learn, and discuss the ecology of elk while hiking through extraordinary scenery with a diverse array of wildlife. ❁



Photo: Pam Cabill

Visit our website at www.YellowstoneAssociation.org

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 31 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 37 years.

JULIANNE BAKER, M.A. (*Day Hiking the Wild Yellowstone; "Thirty-Seven Days of Peril": The Truman Everts Story; Day Hiking the Beartooths; Day Hiking the Cascade Corner; Day Hiking the Yellowstone Lake Area*) taught environmental science in Michigan and has 30 years of teaching experience. She has been hiking, backpacking, kayaking and skiing Yellowstone since 1980 and now resides in Gardiner MT. She is a graduate of NOLS, a Wilderness First Responder and is certified as a master educator. Julianne is currently the Yellowstone Association Institute's Resident Educator.

GENE BALL (*Wildlife Watching in Grizzly Country; Wildlife Artists & Illustrators*) was director of the Yellowstone Association and Institute from 1985-88. He now lives in Meeteetse, Wyoming, and does free-lance 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; Legendary Yellowstone Wolves*) 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*.

GEORGE BUMANN, M.S. (*True to Life on the Wing: The Art & Science of Drawing Flying Fauna; The Wolves of Yellowstone*;) 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 Journaling in Yellowstone; Artistic Field Journals*) has kept journals of landscape projects, filled with observations, for 15 years. Her work as Yellowstone's Chief of Division of Planning, Compliance and Landscape Architecture 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. 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 Geoecosystem; 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 24 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. (*Mountain Dwellers of the Yellowstone Ecosystem; From Bison to Bighorn: The Hoofed Mammals of Yellowstone*) is currently the elk biologist with the New Mexico Department of Game and Fish. Dr. Enk obtained his doctorate in wildlife biology from Montana State University, where he conducted research on bighorn sheep and mountain lions. His teaching experience includes several undergraduate courses at Montana State University as well as seven 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 has documented 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 27 years, emphasizing both the geology of the Yellowstone volcano and the dynamic nature of hydrothermal features.

JIM GARRY, M.S. (*Spring Wildlife on the Northern Range; The Big Three: Lions, Wolves, & Grizzly Bears; The Wolves of Yellowstone; Spring Returns to Yellowstone; Slough Creek Grizzly Bear Basecamp; Bears: Bones, Signs & Stories; The Evolution, Ecology & Future of the Wolf Family; Story & History in Wonderland; Along the Yellowstone River with Lewis & Clark; Hoodoo Basin Basecamp; The Bison of 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. (*Black Canyon Cougar Ecology Trek; Exploring Yellowstone's Microbes Backpack; Backcountry Autumn Elk Ecology*) 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 19 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 Signs; 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; Fall Writing & Ecology*) 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 (*Greater Yellowstone Grizzlies: From Dumps to Recovery?*) is a supervisory wildlife biologist for the Interagency Grizzly Bear Study Team, based in Bozeman, Montana. He has been involved in bear research for 29 years, and has worked in the Yellowstone ecosystem for the past 21. 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*) lives in Augusta, Montana, with four cats, two horses, and a dog. She's been keeping illuminated journals for over 30 years, and is the author of two books on the subject: *A Trail Through Leaves: the Journal as a Path to Place* and *A Life in Hand: Creating the Illuminated Journal*, as well as *Walks with Sis: An Artist and Her Dog Take to the Hills*.

CHERYL JAWOROWSKI, PH.D. (*The Yellowstone Volcano: A Restless Giant*) is a full time geologist for Yellowstone Center for Resources. 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.

SUSAN KELLY, M.S. (*Life on the Edge*) is the outreach coordinator for the Thermal Biology Institute (TBI) at Montana State University-Bozeman. A master's degree in Earth Sciences with an emphasis in plant ecology, previous experience as a seasonal naturalist in Grand Teton National Park (1991-1998), and a love for the Greater Yellowstone Ecosystem, make the interdisciplinary nature of TBI research a natural fit.

ALAN KESSELHEIM (*Words Inspired by Wilderness I and II*) 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., M.S. (*Wild Edible Plants & Medicinal Herbs*) is a medical botanist and western herbalist whose focus is in on plant identification, plant constituents, and the medicinal plants of the Northern Rocky Mountains. She is currently teaching five courses at Montana State University: Herbal Medicine, Herbal Medicine Laboratory, Medicinal Plants of Montana, Flowering Plants of the Northern Rocky Mountains, and Medical Botany.

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.

DAVID LOVALVO (*Science & Stewardship: Deep Discoveries*) is the founder and owner of Eastern Oceanics, a private company that provides equipment and technical assistance for underwater research around the world. Dave has spent 20 years exploring, filming and now mapping Yellowstone Lake. His company currently supports several research projects in Yellowstone National Park.

EARLE LAYSER, M.S. (*Yellowstone Waterfalls*) is a retired Forest Service biologist currently working as a natural resources consultant and free-lance writer from Alta, Wyoming. His many publications include scholarly works on botany, natural areas, grizzly bears, and forestry, including two popular articles on Yellowstone waterfalls.

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 27 years has been on the geology and geophysics of volcanic terrains, including those of the eastern Snake River Plain and Yellowstone Plateau, and Big Bend National Park. 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. (*Greater Yellowstone Grizzlies: From Dumps to Recovery?*) 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.

TOM MURPHY (*Wilderness Photography*) is the founder and owner of Wilderness Photography Expeditions, offering natural history photography seminars inside Yellowstone National Park. In 2001 he published *Silence and Solitude: Yellowstone's Winter Wilderness*, a book of his photos of Yellowstone in winter.

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

MELISSA PANGRAZE (*Black Canyon Wildlife Backpack; Yellowstone Wolf Basecamp; Slough Creek Grizzly Bear Basecamp; Leave No Trace Backpacking Master Course; Mirror Plateau Wolf Backpack; Wilderness Photography; Autumn Day Hiking in Yellowstone*) is an experienced naturalist with a degree in wildlife science from Purdue University. She has studied coyotes in Yellowstone, red wolves in the Great Smokies and white-tailed deer in Shenandoah. For the past 12 years she has worked as an environmental educator for various nature centers and community-based organizations. She has also worked as a program supervisor and field instructor with the National Leadership School since 1996.

RICHARD PARKS (*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 (*Pelican Valley Grizzly Bear Basecamp; Hoodoo Basin Basecamp; Flight of the Nez Perce Backpack; Yellowstone Waterfalls Backpack—History & Discovery from Old Faithful to Bechler*) has been an outdoor educator for over ten years, with the past six years instructing courses for the National Outdoor Leadership School (NOLS). She specializes in backpacking, mountaineering, skiing, and rock climbing and has published a guidebook on winter ecology for NOLS.

ELLEN PETRICK-UNDERWOOD, M.S. (*Family Wonder Week*) currently living in Oregon, Ellen lived in Yellowstone for eight years serving as 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.

WAYNE PHILLIPS (*Plants of the Lewis & Clark Expedition; Wildflowers & Wildfire*) 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.

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.

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 wildlife in North America, renewable resources, and natural resource policy 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).

LESLIE J. QUINN, M.ED. (*Ghost Hotels of Yellowstone; Old Times at Old Faithful; Wonderland's Serene Spot: History on Yellowstone Lake*) is interpretive specialist for Xanterra Parks & Resorts in Yellowstone. A park guide for 25 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 Backpack*) 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.

TONI RUTH, M.S. (*Black Canyon Cougar Ecology Trek*) is an associate conservation scientist with the Wildlife Conservation Society. As leader of the Yellowstone cougar project, she is investigating the effects of wolf reintroduction on the cougar population. She has over 15 years of field experience working with cougars and other large carnivores.

EDWARD SCHAUSTER, M.S. (*Autumn Day Hiking in Yellowstone*) is a wildlife ecology consultant and 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*) previously taught high school wildlife biology and now works in the research permit office in Yellowstone National Park, helping to organize and regulate research in the park. She has lived or worked in Yellowstone since 1994 and has traveled widely across the park in both summer and winter. She has worked with the Yellowstone wolf project since 1999.

DOUGLAS SMITH, PH.D. (*Decade of the Wolf; 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 a new book *Decade of the Wolf*, due out in April, a summary of the first ten years of wolf recovery in Yellowstone. He also 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 National 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. (*Yellowstone Wolf Basecamp; 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 on the Wing: The Art & Science of Drawing Flying Fauna*) is a natural science illustrator whose work has appeared in a number of publications, the Nature Company's product line, and her own line of educational products. Peg's illustrations have been displayed in juried exhibitions at the Smithsonian Museum of Natural History, St. Louis Botanical Garden, the New York State Museum, and the Oakland Museum of California. She is the recipient of the Gold Award 2000 for scientific illustration from the San Francisco Society of Illustrators.

DON STREUBEL, D.A. (*Mammals Great & Small; Autumn Elk Ecology*) 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 Idaho State University, 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; Flight of the Nez Perce Backpack*) is cultural anthropologist for Yellowstone National Park. She has worked ten 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 26 affiliated tribes, many of which have made official visits to the park.

RHEA TOPPING (*Fly-Fishing for Women I and II*) 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 United States, and is author of *Rod Rage*, a book on fly-fishing etiquette.

NATHAN VARLEY, PH.D. CANDIDATE (*Black Canyon Wildlife Backpack; Wolf Nations: Dynamics of a Recovered Population; Yellowstone Wolf Basecamp; Wolves—Reality & Myth; Backcountry Autumn Elk Ecology*) 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, M.A., J.D., PH.D. (HON.) (*History of Wildlife in Yellowstone; Flight of the Nez Perce Backpack; Yellowstone's Northern Roadside History*) is park Historian for Yellowstone National Park. His deep knowledge of the park is revealed in his books about Yellowstone, which include *A Yellowstone Album* (1997), *Yellowstone Place Names* (1988), *Death in Yellowstone* (1995), *A Guide to Yellowstone Waterfalls and Their Discovery* (2001) and, co-authored with Paul Schullery, *Myth and History in the Creation of Yellowstone National Park* (2003). He examines the early history of interpretation and transportation in Yellowstone in a soon-to-be-published book entitled *Storytelling in Yellowstone: Horse-and-Buggy Tour Guides in the Grand Old Park, 1872-1920*.

JASON WILMOT, M.E.M. (*Predator Conservation in the Greater Yellowstone Ecosystem*) is the Executive Director of the Northern Rockies Conservation Cooperative in Jackson, Wyoming. He worked in Glacier National Park for 10 years on a variety of wildlife monitoring and research projects, and helped establish an ongoing wolverine ecology research project. He is collaborating on a forthcoming book on the policy challenges of large carnivore conservation in the Rocky Mountain West. He has worked with the Nature Conservancy of Montana and the Blackfoot Indian Land Trust on Montana's Rocky Mountain Front, and worked as a backcountry ranger in Katmai National Park, Alaska.

WILDERNESS MEDICINE INSTITUTE (WMI), AN INSTITUTE OF THE NATIONAL OUTDOOR LEADERSHIP SCHOOL

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

MIKE YOCHIM, PH.D. (*Yellowstone Waterfalls Backpack—History & Discovery from Old Faithful to Bechler*) 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 examined public interest group influence on national park policy, using several Yellowstone case studies.

ANN ZWINGER (*Fall Writing and Ecology*) is a prize-winning natural history writer and author of *Land Above the Trees, Downcanyon, The Nearsighted Naturalist*, and numerous magazine essays. As adjunct professor at Colorado College, she teaches "Writing the Natural History Essay." She teaches and travels widely, serves as a natural history consultant, and spends a large amount of her time happily working in faraway places you can't get to from here.

REGISTRATION FOR FIELD SEMINARS, BACKCOUNTRY COURSES, & PERSONAL ED-VENTURES

Registration begins for Yellowstone Association members only on January 31, 2005, at 8:00 am, Mountain Standard Time (MST). Non-member registration begins February 7, 2005, 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

- ① Telephone: Call 307-344-2294, 8:00 am to 4:30 pm, Monday through Friday, MST.
- ② Online: Complete and e-mail the online registration form at www.YellowstoneAssociation.org
- ③ Fax: Complete and fax the registration form on pg. 45 to 307-344-2485.
- ④ Mail: Complete and mail the registration form on pg. 45 to: Yellowstone Association Institute, PO Box 117, Yellowstone, WY 82190.

Payment: We accept American Express, 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 & 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, 2005 on a space available basis. Cabin fees are 100 percent refundable. The Institute reserves the right to cancel a course up to 30 days before the first class day. If we cancel, you will receive a full refund. We regret that the Institute cannot make exceptions to the refund policy for any reason, including, but not limited to, illness, travel delays, emergencies, or weather. We strongly urge you to take out accident, baggage, and trip cancellation insurance through a travel agent. Travel insurance can help protect you against financial loss if you must cancel or interrupt your trip.

INFORMATION FOR REGISTERED PARTICIPANTS

Detailed course information will be sent to each participant at least four weeks prior to the course. You may receive this information via email or regular mail. Please contact the registrar if you have not received your course letter at least three weeks prior to your course.

REGISTRATION FOR LODGING AND LEARNING PROGRAMS

Registration for summer 2005 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 Yellowstone National Park Lodges at 307-344-5566, 8:00 am to 5:00 pm, 7 days a week, MST.

PAYMENT & DEPOSIT

They accept American Express, Visa, Discover, MasterCard, Diner's Club, JCB, 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, some programs include dinner. 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 & 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



Photo: Shirley Cope

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 Valley Buffalo Ranch, lodging is available on a first-come, first-serve basis 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 at other locations in the park, 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 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, some packages include dinner.

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 Ed-Ventures: Institute vehicles are available for Personal Ed-Ventures. 🌿

ACADEMIC CREDIT

For some field seminars, credit is available from Colorado State University (CSU). These courses are marked as "credit pending" by their course description. Courses are generally one semester hour. 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-\$75 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.

LOCATION

All Lodging and Learning programs are held at park hotels. Field seminars may be based at either the Institute's Lamar Valley Buffalo Ranch field campus 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 6000 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 (age 18 and older). 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. National 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.



Photo: Dea Vogel

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 participants.

Name _____

Address _____

City _____ State _____ Zip _____

Home Phone _____ Business Phone _____

Fax Number _____ E-mail Address _____

- ☐ Check here if you would 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 e-mail. (We do not share your e-mail address without your permission.)

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

ADDRESS _____

TELEPHONE _____

- ☐ I have read the refund policy on page 42, and understand to receive a refund, I must cancel at least 60 days before a course and pay \$35 course processing fee.
- ☐ Check here if you are a current member of the Yellowstone Association or are joining now (see page 46).

MEMBERSHIP INFORMATION

- ☐ Renewing
- ☐ Joining

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
- ☐ International \$50
- ☐ 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

Course #	Title	Dates	Tuition
1.			
2.			
3.			

Lodging:

- ☐ I want to stay at the Institute cabins at Lamar the following nights at \$25 per 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, see right) _____

Total Enclosed \$ _____

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

Credit Card# _____ Exp. Date _____

Signature _____

CARD VERIFICATION#

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

Would you prefer to receive your pre-course letter via e-mail ☐ or regular mail? ☐

This will be sent approximately 4 weeks prior to your course.



Photo: Shirley Cope

Visit our website at www.YellowstoneAssociation.org

JOIN 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 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 \$600,000 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 e-mail to members@yellowstoneassociation.org

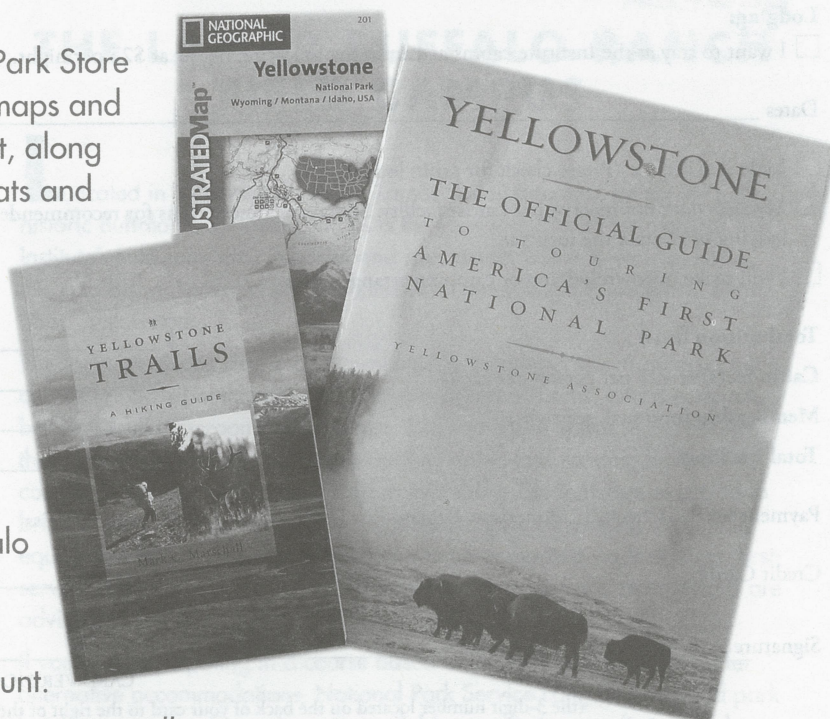
THE PARK STORE

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

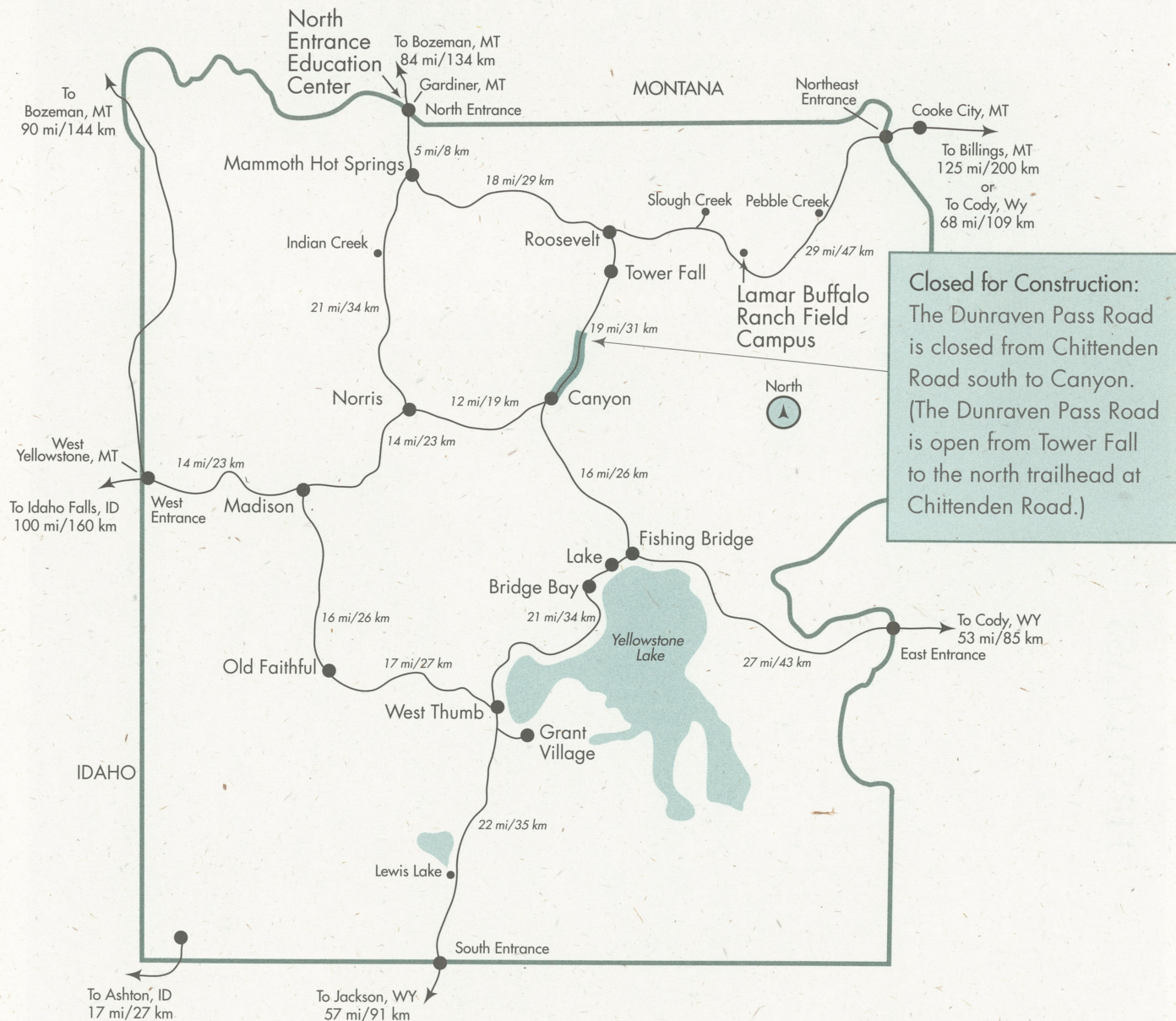
To purchase items, please visit the Park Store at www.YellowstoneAssociation.org, call the mail order staff toll-free at 877-967-0090, or stop by the Institute Store at our Lamar Buffalo Ranch field campus.

Members of the Yellowstone Association receive a 15% discount.

Proceeds support the Institute program at Yellowstone.



TRAVEL INFORMATION



Closed for Construction:
The Dunraven Pass Road is closed from Chittenden Road south to Canyon. (The Dunraven Pass Road is open from Tower Fall to the north trailhead at Chittenden Road.)

Airports

Billings, MT

Bozeman, MT

Cody, WY

Idaho Falls, ID

Jackson, WY

West Yellowstone, MT

Distances/Auto Travel Times To Lamar Buffalo Ranch Field Campus

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
800-225-5996
www.wyomingtourism.org

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

Visit our website at www.YellowstoneAssociation.org



YELLOWSTONE
ASSOCIATION
INSTITUTE

P.O. Box 117
Yellowstone National Park
Wyoming 82190

www.YellowstoneAssociation.org

ADDRESS SERVICE REQUESTED

FIRST CLASS