

Yellowstone Association
Institute



Course Catalog
2001 - 2002

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Table of Contents

Calendar of Courses	3-4
Travel Information	5
Registration Information	6
General Information	7-9
Lodging & Learning Packages	10
Educational Adventures	11
Instructor Profiles	38-43
Membership Information	44
Registration Form	45
The Park Store	46

Index of Courses

Amphibians & Reptiles	22
Aquatics	20
Art	23
Astronomy	30
Backpacking	14, 16, 30, 31, 33
Bears	14, 15
Birds	16, 17, 18, 19
Bison	28
Family Courses	18, 23, 35
Fire	24, 33
Fish/Fishing	22, 24, 28, 33
Folklore	15, 37
Geology/Geysers	19, 22, 23, 24, 25, 27, 29, 30
Hiking	18, 19, 23, 25, 28, 29, 32, 33
History	20, 26, 27, 29
Horsepacking	15, 17, 19, 21, 26, 27, 31, 32, 33, 34
Insects	20
Journal keeping	21
Kayaking	25, 28, 30, 31, 33
Llama Trekking	32
Mammals	13, 14, 17, 18, 26, 28, 34
Map & Compass	20
Native Americans	25
Paleontology	26
Photography	12, 21, 23, 34
Tracking	13, 24, 30, 35
Wilderness First Aid	34, 35
Wildflowers/Plants	17, 18, 21, 24, 25
Weather	26
Wildlife Observation	12, 13, 37
Winter Courses	35, 36, 37
Wolves	12, 13, 14, 16, 17, 18, 19, 20, 37
Writing	17, 31

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ear Friend of the Institute,

Let us introduce you to the Yellowstone that many people visit but few truly see.

The Yellowstone Association Institute offers in-depth educational programs on the natural and cultural history of Yellowstone National Park. We operate in partnership with the National Park Service, and we're known nationwide for the quality of our instruction.

Our 2001/2002 catalog includes more than 125 short courses, including the following new offerings:

- "Lodging and Learning" packages that include accommodations at Yellowstone hotels and instruction by an Institute naturalist.
- "Educational Adventures" for those who want a personal introduction to the park's wildlife and natural history.
- "Favorite Hikes" led by noted authors of Yellowstone hiking guides.

We hope that you will join us for one or more of these remarkable educational experiences and that your participation will lead to a deeper appreciation for the world's first national park.

Sincerely,

Jeff Brown

Jeff Brown
Director of Educational Operations

Pat Cole

Pat Cole
Executive Director

P.S. Members of the Yellowstone Association receive tuition discounts and other benefits! Please see page 44 for details.

Institute Staff

Pam Cahill
Institute Operations Manager

Jim Williams
Institute Program Manager

Diane Kline
Administrative Assistant

May 2001

May 8-10	501	Wildlife Watching in Grizzly Country
May 10-12	502	Spring Wildlife on the Northern Range
May 13-15	503	Spring Wildlife on the Northern Range
> May 17-19	504	Learning to See the Light
May 19-21	505	Spring Returns to Yellowstone
May 20-22	506	Wolf Watching in Yellowstone
May 20-22	507	The Wolf's Return—Mythology to Recovery
May 29-June 1	508 *	Mammal Tracking: Interpreting Tracks, Scat & Other Sign
May 29-June 1	509	Wildlife Observation—Spring

June 2001

June 1-3	601 *	Mountain Dwellers of the Yellowstone Ecosystem
June 1-3	602	Wolves—Reality & Myth
> June 8	① 603	Grizzly & Black Bear Ecology & Management
June 8-11	604	Grizzly Bear Ecology & Management
June 9-12	605 *	Mammals Great & Small
June 11-14	606	Backpacking in Grizzly Country
June 12-14	607 *	Bears—Folklore & Biology
June 13-16	608 *	Bears: Bones, Signs & Stories
> June 15	① 609	Horsepacking: Explorer
June 15-17	610 *	Yellowstone Grizzlies: Past, Present & Future
> June 16	① 611	Horsepacking: Explorer
June 16-17	612	Backpacking—Leave No Trace in Grizzly Country
> June 17	① 613	In Celebration of Birds
> June 18-19	614	Where the Birds Are in Yellowstone
June 18-20	615 *	The Evolution, Ecology & Future of the Wolf Family
> June 19-20	616	Backpacking for Beginners
> June 20-22	617	Writing the Wild
June 21-23	618	Wolves—Reality & Myth
> June 22	① 619	Horsepacking: Explorer
June 22-24	620	Learning Birds by Sound
> June 23	① 621	Horsepacking: Explorer
June 23	① 622	Wildflowers in the Mammoth Area
June 24-26	623 *	Plant Eaters of Yellowstone
June 24-26	624 *	Wild Edible Plants & Medicinal Herbs
June 25-26	625	Cougars—Ghosts of the Rockies
June 27-29	626	Day Hiking in Wonderland
June 27-29	627	Family Days in Lamar—the Wolves Come Home
June 27-29	628 *	Introduction to Yellowstone's Birds
> June 29	① 629	Family Horsepacking: Explorer
> June 29	① 630	Favorite Hike Series—Day Hiking a Trail Time Forgot
> June 30	① 631	Family Horsepacking: Explorer
> June 30	① 632	Interpreting the Geological Landscapes of Yellowstone
> June 30-July 2	633	Wolves of the World
June 30-July 2	634 *	Advanced Birds of Yellowstone

July 2001

July 3-4	701 *	Aquatic Insects of Yellowstone
July 3-5	702	Wolf Watching in Yellowstone
> July 5-7	703 *	Beetles, Bugs, & Damselflies
July 6	① 704	Exploring Yellowstone by Map & Compass
July 6-8	705 *	Along the Yellowstone River with Lewis & Clark
July 6-9	706	Artistic Field Journals
July 6-9	707	Nature Photography in Yellowstone: Building a Foundation for Creativity
July 8-10	708	Plants of Yellowstone
> July 8-13	709	Horsepacking: Life in the Lamar Valley
July 10-12	710 *	Great Earth Odyssey
July 10-12	711 *	Amphibians & Reptiles of the Greater Yellowstone Ecosystem
July 11-13	712	Yellowstone's Fishes: Beyond Angling
July 12-15	713	Field Photography in Yellowstone: The Creative Image
> July 13	① 714	Favorite Hike Series—Wandering Through Wonderland
> July 14-16	715	Family Adventures at the Buffalo Ranch
July 14-16	716 *	Geysers, Mud Pots & Hot Springs
> July 17-19	717	Birds, Bees, Butterflies & Botany
July 17-19	718	Fly-Fishing for Women I
July 17-20	719 *	Mammal Tracking: Interpreting Tracks, Scat & Other Sign
July 18-20	720 *	Geysers, Mud Pots & Hot Springs
July 20-21	721	Wildflowers & Wildfire
> July 20-22	722	Fly-Fishing for Women II
July 20-23	723	Shoshone Lake Sea Kayaking
> July 21-22	724	Uncovering Secrets of the Lower Geyser Basin
July 21-23	725	Smoking Mountains—Indians & Yellowstone Park
July 22-24	726	Hiking Through Time—Day Hikes into the Geological Past
July 22-24	727 *	Alpine Wildflower Walks
> July 22-25	728	Horsepacking: The Bannock Indian Trail

- > Denotes a NEW class.
 ① Denotes a ONE-DAY class.
 * Denotes classes available for UNIVERSITY CREDIT.

Calendar of Courses
continued on next page



July 2001 (continued)

> July 24-26	729	★	The Lesser-Known Carnivores of the Greater Yellowstone Ecosystem
July 25-26	730		History of Yellowstone Photographers
July 27-29	731		Weather Cycles in the Big Sky
July 27-29	732	★	Fossils of Yellowstone
July 28	① 733		Old Times at Old Faithful
July 29	① 734		Ghost Hotels of Yellowstone
July 29-Aug 1	735		Horsepacking: Poacher's Cabin
July 30-Aug 2	736	★	Exploring Yellowstone's Microbes
July 31-Aug 3	737		Day Hiking Yellowstone
> July 31-Aug 3	738		Fly-Fishing for Teens

August 2001

Aug 3-5	801		Fly-Fishing the Catch-and-Release Way—Less Experienced
> Aug 4	① 802		Favorite Hike Series—Pebble Creek in a Day
> Aug 4	① 803		Kayaking Yellowstone Lake
Aug 4-6	804	★	The Bison of Yellowstone
> Aug 5	① 805		Favorite Hike Series—Crest of the Absarokas
Aug 6-8	806		Yellowstone's Southern Roadside History
Aug 6-9	807		Day Hiking Yellowstone
Aug 6-10	808	★	Geology of the Yellowstone Country
Aug 9	① 809		Introduction to Mammal Tracking
Aug 10-13	810		Shoshone Lake Sea Kayaking
Aug 11-15	811		Backpacking Yellowstone—The Gallatin Region
Aug 12-14	812	★	Fire & Ice—Yellowstone's Last Two Million Years
Aug 12-14	813		Discover Your Sky—Observing Techniques for Backyard Astronomers
> Aug 12-17	814		Horsepacking: Mirror Plateau's Druid Pack
Aug 12-17	815		Creating with the Elements
> Aug 18	① 816		Kayaking Yellowstone Lake
Aug 18-23	817		Backpacking—Old Faithful to the Bechler Region
Aug 25-28	818		Base Camp in the Beartooths—A Mountain Journey
> Aug 26-29	819		Horsepacking: Then and Now

September 2001

> Sept 1-4	901		Beartooth Llama Trek
> Sept 2	① 902		Favorite Hike Series—A Classic Yellowstone Adventure
Sept 4-6	903		Autumn Day Hiking in Yellowstone
> Sept 7-9	904		Fire Management & Ecology of Yellowstone Forests
Sept 7-10	905		Shoshone Lake Sea Kayaking
> Sept 8-10	906		Autumn Backpacking and Base Camp
Sept 9-14	907		Horsepacking: Autumn Sights and Sounds
Sept 14-16	908		Fly-Fishing in the Fall
> Sept 14-16	909		Hiking in Yellowstone's Northwest Corner
> Sept 16-19	910		Horsepacking: Trails Less Traveled
Sept 22-25	911		Autumn Photography in Yellowstone
> Sept 27-30	912		Autumn Nature Photography with John Shaw

October–December 2001

> Oct 5-7	1001		Beavers of North America
Nov 8-17	1101		Wilderness First Responder
Dec 1-2	1201		Wilderness First Aid
> Dec 27-29	1202		Family Winter Adventure at the Buffalo Ranch

Winter 2002

Jan 11-14	101		Snowshoeing in Yellowstone
> Jan 18-20	102	★	Snow Tracking Ecology
> Jan 18-22	103	★	Snow Tracking Ecology
Jan 25-27	104		Winter on a Sliver
> Jan 31-Feb 3	105		A Look Through Winter's Window
Feb 12-14	201		Exploring Yellowstone on Snowshoes
Feb 15-17	202		Exploring Yellowstone's Winter World on Skis
Feb 22-24	203		Wolf Watching in Yellowstone
> March 13-15	301		Winter Tales
March 15-17	302		Yellowstone's Wolves
March 22-25	303		Wildlife Observation—Winter

> Denotes a NEW class.

① Denotes a ONE-DAY class.

★ Denotes classes available for UNIVERSITY CREDIT.

4

Registration

Registration for Yellowstone Association members begins January 29, 2001, at 8:00 am, Mountain Standard Time (MST). Non-member registration begins February 5, 2001, at 8:00 am, MST. Most courses are limited to 10 to 15 participants and early registration is advised.

Four Easy Ways to Register

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

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

Fax: Complete and fax the registration form on pg 45.

Mail: Complete and mail the registration form on pg 45.

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

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

Tuition

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

Lodging and Meals

For courses based at the Lamar Buffalo Ranch, lodging is available for an additional fee of \$20 per person per night, and students must bring and cook their own meals. A portion of this fee is contributed to the National Park Service for maintenance of the field campus. For "Lodging and Learning" packages at park hotels, lodging and some meals are included.

For courses with the  symbol, lodging has been set aside at park hotels and must be reserved by course participants at least 30 days in advance. For all other courses, students must make their own arrangements for lodging and meals. (See Nearby Camping, Lodging and Groceries, pg 7.)

Transportation

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

Location

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

Participant Information

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

Insurance and Liability

Participants must provide their own health and accident insurance. Please read and sign the liability waiver on the registration form.

Academic Credit

Courses for which academic credit is available are marked on the Calendar of Courses on pages 3 and 4 with a "★". Type of credit ("U" for undergraduate credit and/or "G" for graduate credit), number of semester hours, and sponsoring university are included in each course description. On the first day of the course, the participant must fill out a registration form and write a tuition check payable directly to the sponsoring university. Credit fees range from \$55-\$120 per semester hour depending on the university 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.

Institutions that offer credit include: Colorado State University (CSU); Idaho State University (ISU); Montana State University (MSU); Portland State University (PSU); University of Montana, (U of MT); and University of Wyoming (U of WY).

Letter of Certification

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

Refund Policy

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

Important:

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

Altitude

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

Children

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



Leave No Trace

Leave No Trace (LNT) is a national education program designed to encourage minimum impact skills and ethics among outdoor users. The Institute endorses this program and includes the LNT curriculum in our classes. We also offer a certification program for LNT trainers (see pg 16).

Lodging

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

Physical Condition

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

Weather, Clothing, and Equipment

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



Historic Buffalo Ranch and park ranger circa 1922.

Planning Your Visit to the Lamar Buffalo Ranch:

The Lamar Buffalo Ranch Field Campus

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

Log Cabins

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

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

The Bunkhouse

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

Food and Preparation

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

Pets, RVs, and Camping

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

Nearby Camping, Lodging, and Groceries

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

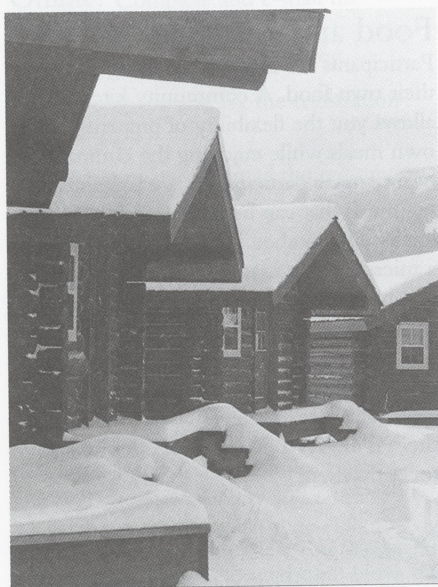
Lodging within the park is available at Mammoth Hot Springs (29 miles west, summer and winter), Roosevelt (11 miles west, summer only), Canyon (30 miles southwest, summer only), and other locations. Space is limited and reservations should be made as soon as possible through Yellowstone National Park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

continued on next page



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

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



Winter at the Field Campus

Winter is a particularly enjoyable time to visit the field campus. Class sizes are generally smaller, there is plenty of time to socialize during the evening hours, and the facilities are cozy and warm despite temperatures which often slip below zero. It is also a great time to see wolves, bison, elk, and other winter wildlife in the Lamar Valley.

Additional Information for Backcountry Courses:

Backpacking Courses

Institute backpacking courses introduce participants to safe and enjoyable travel in Yellowstone's magnificent backcountry. All courses include an orientation to "Leave No Trace" camping and bear safety, as well as general information on the natural and cultural history of the park. Some courses cover specific topics such as Leave No Trace certification and fly-fishing. To ensure high quality instruction and minimum environmental impact, class size is limited to 8.

Backpacking courses require preparation and the success of each group in a backcountry situation relies on individual planning and fitness. All Institute backpacking courses include moderately strenuous hiking with full packs. Participants must be properly equipped and in good physical condition. Students who are not prepared at the time of their course may be asked to refrain from participating for their own and the group's safety and well-being.

Rates include tents, stoves, and other group equipment. Participants must provide their own personal equipment and food. These trips are designed for adults.

Detailed directions to meeting places and an equipment list will be mailed to registered students as soon as possible. Trip itineraries may change based on trail conditions and the availability of backcountry campsites. Participants must secure their own accommodations before and after the course.

Horsepacking Courses

Institute horsepacking courses are both exciting and educational. The goal of these courses is to provide a true wilderness experience in the Yellowstone backcountry. Participants learn how to care for the animals and how to travel and camp in wilderness without damaging this fragile country. To make the experience even more meaningful, instructors share specific information about the natural and cultural history of Yellowstone and the low-impact use of pack stock. The pace of these trips is leisurely and there is time for wildlife watching and fishing. Unless specified, no prior riding experience is required.

Overnight pack trips allow access to some of the most remote and beautiful places in the park. Rates include all group equipment and five-course meals prepared by the outfitter. Participants must supply their own sleeping bag, clothing, and personal supplies. These trips are designed for adults.

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

Detailed directions to meeting places and an equipment list will be mailed to registered students as soon as possible. Trip itineraries may change based on trail conditions and the availability of backcountry campsites. Participants must secure their own accommodations before and after the course.





Additional Information for Winter Courses:

Weather

Yellowstone is a big place with great variation in temperature and snowfall. While it is true that Yellowstone often sets the nation's records for cold temperatures, it is also true that some areas of the park are much warmer and receive relatively little snow.

Snow usually begins to accumulate in November, and it does not melt until late spring, except in the lower elevation valleys in the northern portion of the park. Snow depths of 2 to 4 feet are common in the areas where most of our ski trips take place.

Temperatures in November will drop below 20 degrees F almost every night. During the deep winter period of December through February, temperatures frequently drop below zero and occasionally fall as low as -40 degrees F.

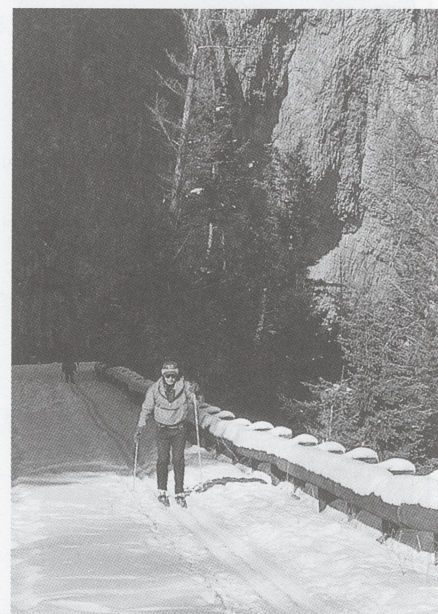
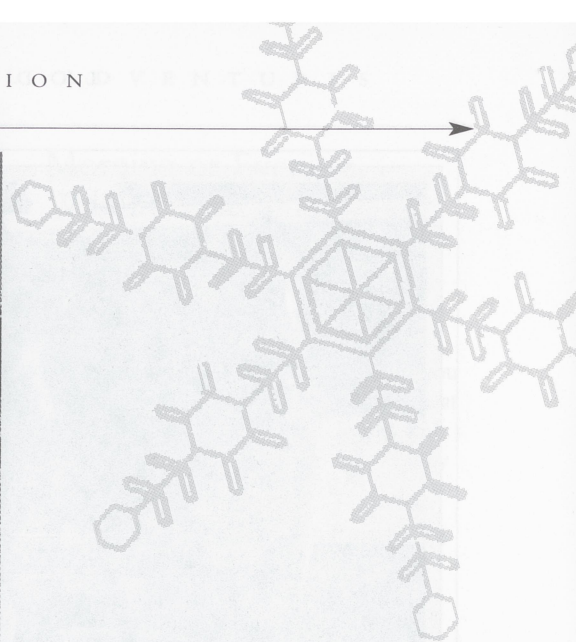
During any given Institute course, it is common to encounter excellent snow conditions with temperatures ranging from above freezing to below zero. Because winter weather in Yellowstone can vary from mild to extreme, it is wise to come prepared for all possibilities.

Equipment

Proper equipment ensures that you will stay warm and dry in all conditions. We recommend layers of synthetic and wool clothing, with a nylon shell to provide protection from the wind. By adding or removing layers as your exertion level changes, you can maintain a comfortable body temperature without perspiring. A list of recommended clothing and equipment for winter courses is sent to all course participants, and we will be glad to answer specific questions.

Ski and Snowshoe Rental

Cross-country skis and snowshoes can be rented from the Yellowstone National Park Lodges ski shop in Mammoth at 307-344-5276. Skis can be rented from Parks' Fly Shop in Gardiner, Montana, at 406-848-7314. Basic ski lessons are available at the Mammoth ski shop.



Custom Courses

We would be glad to arrange a special educational program for your group. Instruction is available on a wide range of topics, and we can sometimes provide accommodations at the Lamar Buffalo Ranch field campus. Please call 307-344-2292 for more information.



Lodging and Learning Packages at Park Hotels

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

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

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

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

Summer 2001 Package: Trails Through Yellowstone

Four days of hiking and discovery in the world's first national park. Activities include wildlife watching in the Lamar Valley, an interpretive tour of the Old Faithful area, a full-day hike in the backcountry, and shorter hikes near Yellowstone's Grand Canyon and Hayden Valley. This is an active program and participants must be prepared for daily hiking.

Dates: Offered each week (Sun-Thurs) from May 6 through October 4, 2001

Maximum Group Size: 12

Minimum Age: 12

Package Includes:

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

Rates:

- \$509 Double Occupancy (Member's rate \$499)
- \$689 Single Occupancy (Member's rate \$679)

Special "Shoulder Season" Rates for the weeks of May 6, 13, 20, 27 and Sept. 23, 30:

- \$447 Double Occupancy (Member's rate \$437)
- \$565 Single Occupancy (Member's rate \$555)

Winter 2002 Packages:

Wonderland

A comprehensive overview of Yellowstone in winter. Activities include wildlife watching and snowshoeing in the Lamar Valley, interpretive snowcoach tours to and from Old Faithful, and ski trips near Tower and Old Faithful. Some ski and snowshoe experience is recommended. Beginners should arrive a day early and take a lesson at the Mammoth ski shop.

Dates: Offered each week (Sun-Fri or Fri-Wed) from January 4 through March 1, 2002

Maximum Group Size: 10

Minimum Age: 12

Package Includes:

- Expert instruction by Institute naturalist/guide
- Lodging with private bathroom at Mammoth (three nights) and Old Faithful (two nights)
- Breakfast and box lunch daily per person
- Ski and snowshoe rentals
- In-park van and snowcoach transportation
- Welcome gift
- Hot tub rental and skating at Mammoth
- Optional evening programs
- "Snow Card" for discounts on additional meals, gifts, activities

Rates:

- \$739 Double Occupancy (Member's rate \$729)
- \$924 Single Occupancy (Member's rate \$914)

Secret Snowscapes

An active program for those who want to enjoy winter wildlife and scenery off the beaten path. Activities include wildlife watching in the Lamar Valley, skiing near Yellowstone's Grand Canyon, and snowshoeing near the Norris Geyser Basin. Some ski and snowshoe experience is recommended.

Dates: Offered each week (Sun-Thurs) from January 6 through February 28, 2002

Maximum Group Size: 10

Minimum Age: 12

Package Includes:

- Expert instruction by Institute naturalist/guide
- Lodging with private bathroom at Mammoth (four nights)
- Breakfast and box lunch daily per person
- Ski and snowshoe rentals
- In-park van and snowcoach transportation
- Welcome gift
- Hot tub rental and skating at Mammoth
- Optional evening programs
- "Snow Card" for discounts on additional meals, gifts, activities

Rates:

- \$559 Double Occupancy (Member's rate \$549)
- \$679 Single Occupancy (Member's rate \$669)

Winter Wolf Discovery

Search for wolves with an Institute naturalist! Activities include wildlife watching and snowshoeing in the Northern Range, an early morning trip to look for wolves in the Lamar Valley, and programs on the ecology and management of Yellowstone wolves.

Dates: Offered twice each week (Wed-Fri and Fri-Sun) from January 2 through March 3, 2002

Maximum Group Size: 12

Minimum Age: 12

Package Includes:

- Expert instruction by Institute naturalist/guide
- Lodging with private bathroom at Mammoth (two nights)
- Breakfast and box lunch daily per person
- Snowshoe rentals
- In-park van transportation
- Welcome gift
- Hot tub rental and skating at Mammoth
- Optional evening programs
- "Snow Card" for discounts on additional meals, gifts, activities

Rates:

- \$229 Double Occupancy (Member's rate \$219)
- \$296 Single Occupancy (Member's rate \$286)

Educational Adventures

Educational adventures are personal natural history tours for families and other small groups. An experienced Institute naturalist will meet you at a predetermined location and join you in your vehicle for a private introduction to park wildlife and ecology. Our instructors enjoy sharing their knowledge with visitors of all ages.

Programs are available during May, June, and July, which is the best time to search for wolves and bears at Yellowstone. We can also arrange trips on weekends in March and April. We will offer one trip daily and reservations are required.

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

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

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

Two options are available:

Morning or Evening Wildlife Watching

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

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

Dates: Offered Thurs-Mon from May 3 through July 30, 2001

Hours:

Approximately 6 hours

Rates:

- \$165 for up to four people (Member's rate \$155)
- \$25 for each additional person

All-Day Wildlife Watching

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

Dates: Offered Thurs-Mon from May 3 through July 30, 2001

Hours:

Approximately 8 hours

Rates:

- \$210 for up to four people (Member's rate \$200)
- \$25 for each additional person



Wildlife Watching in Grizzly Country

May 8-10 (#501)

Limit: 13

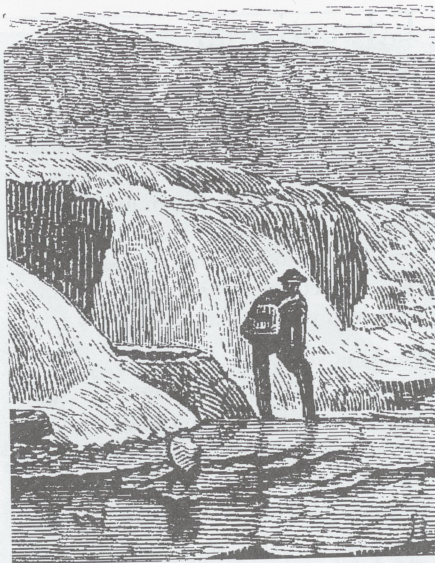
Location: Mammoth Hot Springs

Instructor: Gene Ball

\$170 (Member's fee \$160)

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 wildlife with a focus on bears and wolves. Methods of unobtrusive observation and the ethics of interaction with wildlife will be central themes. The flexible schedule of daily field trips allows for discussions on various wildlife topics, issues, and controversies. The opening session will focus on tips for the best use of scopes and binoculars. Be prepared for occasional moderate hikes at higher elevations.

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



Spring Wildlife on the Northern Range

May 13-15 (#503)

(see description on this pg)

Learning to See the Light

May 17-19 (#504)

Limit: 13

Location: Old Faithful Area

Instructor: Sandra Weber

\$170 (Member's fee \$160)

NEW

Yellowstone is the perfect setting in which to extend your creative photography skills. The key to capturing the park's majestic landscapes and wildlife lies in your ability to see light, in all its forms and colors. This 3-day course is designed for those who understand their camera controls but would like to go beyond technical issues to learn how to put more drama and color in their images.

Using 35 mm cameras and color film (print or slide), participants will meet early each morning at the Old Faithful Inn and take moderate walks (1-4 miles) in the area, taking pictures with individual assistance from the instructor. Each day will include 2-3 hours of classroom time with slides and handouts, as well. Required: Participants must bring their camera manual and have read it thoroughly!

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

Spring Returns to Yellowstone

May 19-21 (#505)

Limit: 13

Location: Lake/Canyon

Instructor: Jim Garry, M.S.

\$170 (Member's fee \$160)

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

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

Wolf Watching in Yellowstone

May 20-22 (#506)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Norman A. Bishop

\$170 (Member's fee \$160)

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

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

Spring Wildlife on the Northern Range

May 10-12 (#502)

Limit: 13

May 13-15 (#503)

Limit: 13

Location: Mammoth Hot Springs

Instructor: Jim Garry, M.S.

\$170 (Member's fee \$160)

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

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

The Wolf's Return— Mythology to Recovery

May 20-22 (#507)

Limit: 13

Location: Lamar Buffalo Ranch

Instructors: Brian Peck &

David Gaillard, M.E.S.

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

The saga of the wolf's return continues. This year there should be 10 to 12 packs in Greater Yellowstone, and we'll be there to observe them. This field-oriented class will include expert presentations, storytelling, and daily field trips to explore the wolf's near-demise, and triumphant return. Be prepared to hike 3 to 5 miles to look for North America's dominant predator as it interacts with elk, bison, and bears in the world's first national park. Extensive handouts will be provided. Join us for a howling good time as we welcome home the wolves of Yellowstone.

We will meet in the Lamar Ranch area at 7:00 am on the first day and end late afternoon on the last day. Fee includes \$15 for course materials.

Mammal Tracking: Interpreting Tracks, Scat & Other Sign

May 29-June 1 (#508)

Limit: 13

July 17-20 (#719)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour,

U of MT, MSU

Instructor: James Halfpenny, Ph.D.

\$250 (Member's fee \$240)

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

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

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

Wildlife Observation— Spring

May 29-June 1 (#509)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Gene Ball

\$170 (Member's fee \$160)

Late 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 wildlife. Methods of unobtrusive observation and the ethics of interaction with wildlife will be central themes. The flexible schedule will feature early morning and evening field trips and programs on various wildlife topics, issues, and controversies. The opening session will cover use of binoculars, spotting scopes, and tripods for quality wildlife observation. Be prepared for occasional moderate hikes at higher elevations.

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

Mountain Dwellers of the Yellowstone Ecosystem

June 1-3 (#601)

Limit: 13

Location: Lamar Buffalo Ranch

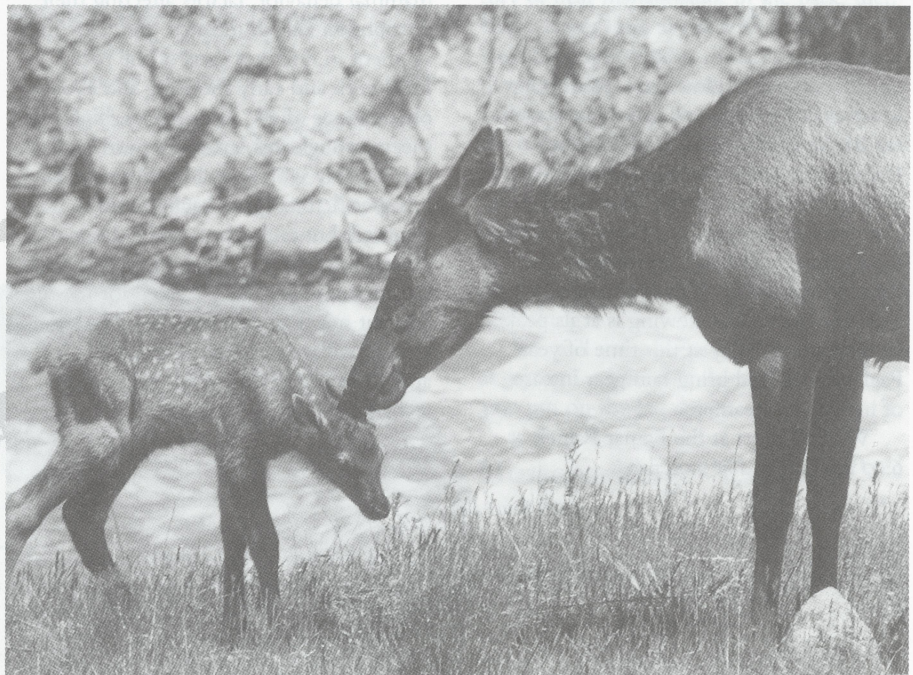
Credit pending: U, 1 semester hour, MSU

Instructor: Terry Enk, Ph.D.

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

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) in this ecosystem. 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 depending on conditions. Be prepared for occasional, short, easy to moderately strenuous hikes into sheep habitats.

We will meet in the Lamar Ranch area at 1:00 pm on the first day and end at 3:00 pm on the last day.



Wolves—Reality & Myth

June 1-3 (#602)

Limit: 13

June 21-23 (#618)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Nathan Varley, M.S.

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

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

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

Grizzly & Black Bear Ecology & Management

June 8 (#603)

Limit: 13

Location: Lamar Valley/Antelope Creek Areas

Instructor: Kerry A. Gunther, M.S.

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

NEW

June is peak time for grizzly bear predation on elk calves in Yellowstone. Join us for some exciting black and grizzly bear viewing in the Lamar Valley and Antelope Creek areas while you learn about bear ecology and management. This overview class features discussions of bear behavior, food habits, habitat use, predation, bear-human interactions, and nuisance bear management. Bear viewing is at its peak in the Lamar Valley at this time of year. Pack a lunch and bring rain gear in case of inclement weather.

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

Grizzly Bear Ecology & Management

June 8-11 (#604)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Sue Consolo Murphy, M.S.

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

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

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

Mammals Great & Small

June 9-12 (#605)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U or G, 2 semester hours,

ISU, CSU

Instructor: Don Streubel, D.A.

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

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

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

Backpacking in Grizzly Country

June 11-14 (#606)

Limit: 8

Location: Black Canyon of the Yellowstone

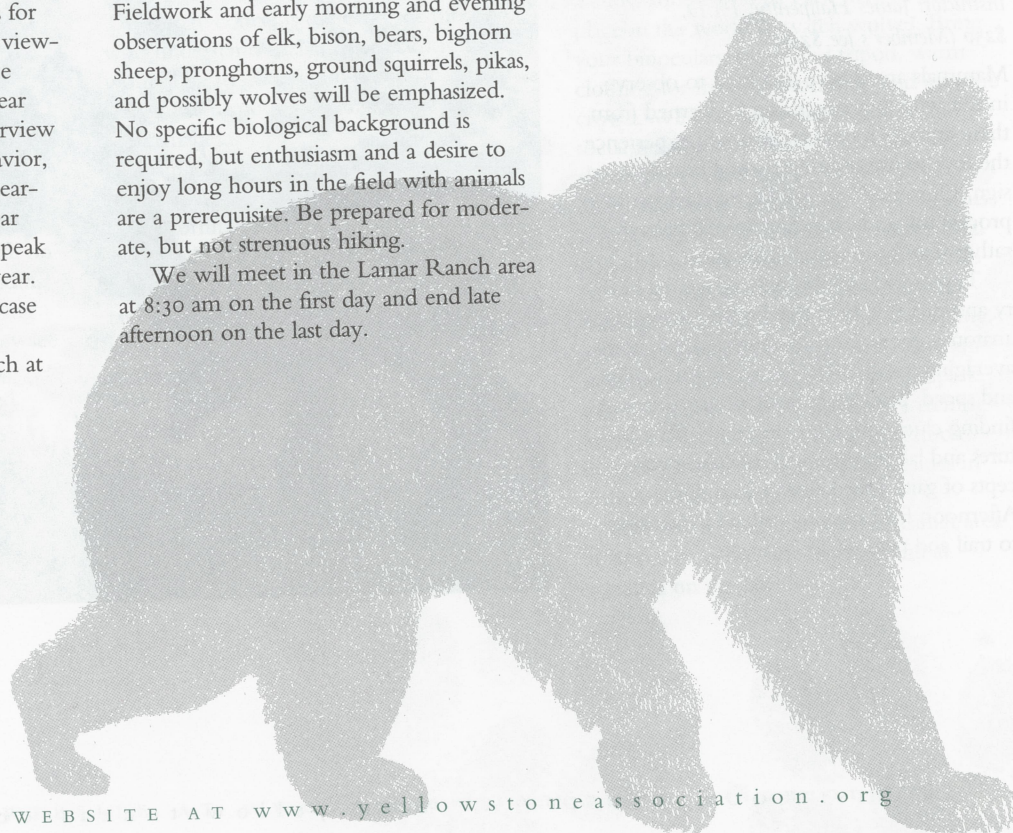
Instructors: Michael Bartley &

Marla Covey, M.S.

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

Do you want to learn to travel safely, confidently, and respectfully in grizzly country? Then this backpacking trip is for you. The grizzly bear is one of the most magnificent animals in the world and backpacking in the land of the "Great Bear" can be a magical experience. However, for your safety and the welfare of the bear, it is essential that you learn how to exist with grizzly bears. Adapting the principles of "Leave No Trace" to bear country, you will learn the skills necessary to reduce the possibility of encountering a bear on trail and in camp and learn how to deal with both daytime and nighttime bear encounters. Discussions will include the biological, ecological, political, and social aspects of this threatened species and its long-term prospects for recovery. Be prepared to hike nearly 20 miles with an initial descent of 1,000 feet.

We will meet at the Hellroaring trailhead at 9:00 am on the first day and return to the trailhead at 3:00 pm on the last day. Please see general backpacking information on pg 8. The nearest campgrounds are Slough Creek or Tower Fall and the nearest lodging is at Roosevelt Lodge.



Bears—Folklore & Biology

June 12-14 (#607)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU

Instructors: Harold Picton, Ph.D. &

Jim Garry, M.S.

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

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

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

Bears: Bones, Signs & Stories

June 13-16 (#608)

Limit: 13

Location: Lamar Buffalo Ranch

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

Instructors: Elaine Anderson, Ph.D.,

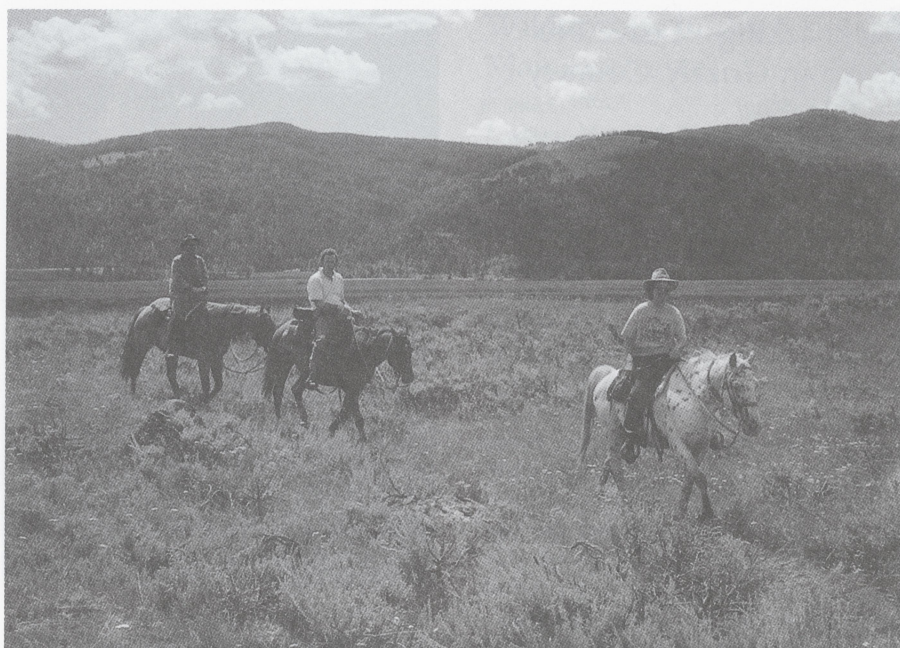
James Halfpenny, Ph.D., &

Jim Garry, M.S.

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

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

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



Horsepacking: "Explorer"

Adult One-day horsetrips:

Limit: 6

June 15 (#609) Location: Hayden Valley

June 16 (#611) Location: Specimen Ridge

June 22 (#619) Location: Pelican Valley

June 23 (#621) Location: Lamar Valley

Family One-day horsetrips:

Limit: 6

June 29: (#629) Location: Hayden Valley

June 30: (#631) Location: Pebble Creek

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

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

NEW

Our one-day "Explorer" rides provide an excellent introduction to backcountry adventure in Yellowstone. The experienced staff of Wilderness Pack Trips, Inc. will meet you at a predetermined location, review the basics of backcountry horsemanship, and introduce you to special places deep inside the park. The locations for these trips are selected based on their diverse scenery and opportunities for wildlife viewing. Courses will be offered in two-day blocks (each day going to a different area) and you are welcome to register for one or both days.

We will meet at the trailhead at 9:00 am, lunch will be provided, and the ride will end around 4:00 pm. Registered students will receive detailed directions to the meeting place. Please see general horsepacking information on pg 8.

Yellowstone Grizzlies: Past, Present & Future

June 15-17 (#610)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U or G, 1 semester hour, CSU

Instructor: Doug Ouren

\$170 (Member's fee \$160)

Join us for the latest information on grizzlies in Yellowstone. We'll review the history of bear management in the park, then take a closer look at the current status of Yellowstone's grizzlies, including population estimates, reproductive performance, and mortality rates. Finally, we'll talk about the bears' future, including the possible removal of this population from the endangered species list. Our schedule will include a combination of field trips (some in the early morning hours!) and lectures. Be prepared for moderate, but not strenuous hiking.

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

Horsepacking: "Explorer"

Adult (#611)

June 16

NEW

(see description on this pg)

Backpacking—Leave No Trace in Grizzly Country

June 16-17 (#612)

Limit: 8

Location: Black Canyon of the Yellowstone

Instructors: Michael Bartley &

Marla Covey, M.S.

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

This course is for certification as a trainer in the national Leave No Trace (LNT) program, an educational program endorsed by the National Park Service and other land management agencies. The goal of the program is to promote "minimum impact" skills and ethics. A key component of LNT is development of trainers to educate the general public. On this backpacking trip, you will learn the principles, theories, and skills of LNT. This class is interactive—come prepared to participate. We will discuss the biology and ecology of grizzly bears and learn the skills necessary to reduce the possibility of dangerous encounters. Be prepared for a short hike of 3 miles into our campsite. The pace of the course is designed for all levels of experience.

We will meet at the Blacktail Creek trailhead at 9:00 am on the first day and return to the trailhead at 3:00 pm on the last day. Please see general backpacking information on pg 8. The nearest campgrounds are Slough Creek or Tower Fall and the nearest lodging is at Roosevelt Lodge.

In Celebration of Birds

June 17 (#613)

Limit: 13

Location: Yellowstone Lake Area

Instructor: Katy Duffy, M.S.

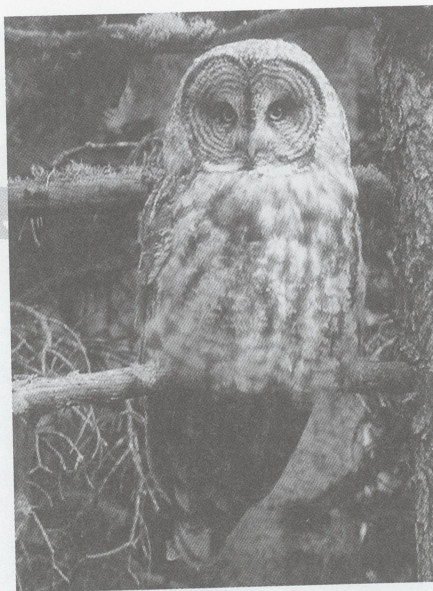
\$65 (Member's fee \$55)

NEW

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 leisurely observe, and enjoy, birds in the Lake area. In the morning we will caravan to birding sites where we will walk a total of 3 to 4 miles on mostly level trails. We will watch birds, polish our identification skills, and listen to bird songs. In the afternoon we'll investigate specialized adaptations to habitats, how birds migrate, why birds sing, and other aspects of the nesting cycle.

Bring binoculars, field guides, water, lunch, snacks, rain gear, sunscreen and insect repellent. Wear comfortable walking shoes and layered clothing.

We will meet at 7:30 am in front of the Fishing Bridge Visitor Center and end at the same location at 4:00 pm.



Where the Birds Are in Yellowstone

June 18-19 (#614)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: John C. Carlson, Ph.D. candidate

\$120 (Member's fee \$110)

NEW

Come explore the varied habitats of Yellowstone and discover the birds that inhabit them. This course will provide a mix of bird identification and birding skill building through an in-depth look at some of the more common birds of Yellowstone. We will learn which birds live in particular habitats in Yellowstone and why. Beginning birders are welcome. Just bring your bird book and binoculars.

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

The Evolution, Ecology & Future of the Wolf Family

June 18-20 (#615)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU,

U of MT, CSU

Instructors: Elaine Anderson, Ph.D., &

James Halpenny, Ph.D.

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

Dire, gray, red, and timber wolves, coyotes, and foxes: these canids have all roamed North America. Some still survive here in spite of their human cohabitants. How did they evolve and where do they fit in the overall scheme of things? Where does the domestic dog fit in? What is the modern ecology of North American wolves? How do we study these animals

in the field? What is happening with the dynamic Yellowstone wolf reintroduction? Will wolves survive the steadily increasing human population? Join Elaine, carnivore paleontologist, and Jim, carnivore ecologist, to answer these and more questions.

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

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

Backpacking for Beginners

June 19-20 (#616)

Limit: 8

Location: Lamar Valley

Instructors: Michael Bartley &

Marla Covey, M.S.

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

NEW

If you have ever wondered what it would be like to be self-sufficient and spend a night in the Yellowstone wilderness, then this trip is for you. We will hike in the beautiful Lamar River Valley and camp along Cache Creek in the heart of "America's Serengeti." We will cover all of the basics of backpacking including equipment and clothing, map reading, route finding, camp selection and cooking as well as Leave No Trace and bear country techniques. Our goal is to give you a solid foundation for future backpacking trips. The hike will be 4 miles along a relatively flat grade that should allow plenty of time to learn while you enjoy the solitude of the Yellowstone backcountry.

We will meet in the Lamar Ranch area at 9:00 am on the first day and return to the trailhead at 3:00 pm on the last day. Please see general backpacking information on pg 8. The nearest campgrounds are Slough Creek or Tower Fall and the nearest lodging is at Roosevelt Lodge.

Writing the Wild

June 20-22 (#617)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Gary Ferguson

\$170 (Member's fee \$160)

NEW

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

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

Wolves—Reality & Myth

June 21-23 (#618)

(see description on pg 14)

Horsepacking: "Explorer"

Adult (#619)

June 22

(see description on pg 15)

NEW

Learning Birds by Sound

June 22-24 (#620)

Limit: 8

Location: Lamar Buffalo Ranch

Instructor: Terry McEneaney

\$145 (Member's fee \$135)

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

We will meet in the Lamar Ranch area at 7:30 pm on the first day and end at 5:00 pm on the last day. Optional: outdoor barbecue at 6:00 pm on the first day. Meeting on the west porch of the classroom building.

Horsepacking: "Explorer"

Adult (#621)

June 23

(see description on pg 15)

NEW

Wildflowers in the Mammoth Area

June 23 (#622)

Limit: 13

Location: Mammoth Hot Springs

Instructor: William C. Edwards, Ph.D.

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

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

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

Plant Eaters of the Yellowstone

June 24-26 (#623)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU

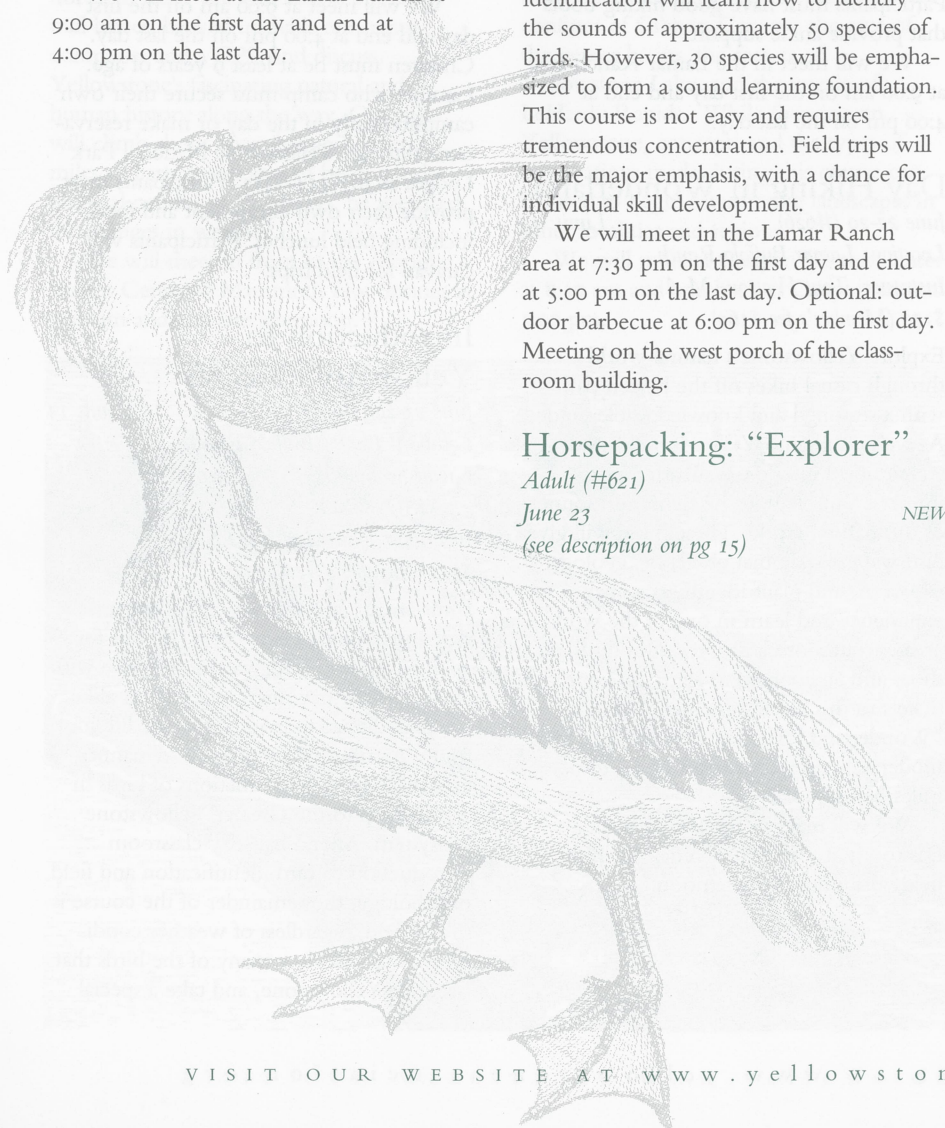
Instructors: Harold Picton, Ph.D. &

Terry Enk, Ph.D.

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

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

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



Wild Edible Plants & Medicinal Herbs

June 24-26 (#624)

Limit: 13

Location: Squirrel Meadows, Targhee National Forest, Idaho

Credit pending: U, 1 semester hour,
U of MT, CSU

Instructor: Wayne Phillips

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

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

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

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

Cougars—Ghosts of the Rockies

June 25-26 (#625)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Toni K. Ruth, Ph.D. candidate
\$120 (Member's fee \$110)

Cougars, also known as "ghosts of the Rockies," are Yellowstone's most elusive large carnivores. Detection and interpretation of cougar sign is often the only way to understand their behavior and ecology. Through a combination of slide lectures and field instruction, you will be introduced to sign-interpretation and the history of cougars in the West and in Yellowstone. Find out what Yellowstone cougars eat, how often they kill prey, what effect wolves may have on cougar population and predation rates, and how the current research pertains to cougar conservation. Practice "detective work" to locate cougar sign, examine current radio-tracking techniques, and discuss cougar-wolf interactions. Field trips to areas cougars frequent require hiking off-trail on steep slopes and through rocky and semi-rugged terrain. Participants must have good hiking boots that provide ankle support.

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

Day Hiking in Wonderland

June 27-29 (#626)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Tom Watson, M.A.
\$170 (Member's fee \$160)

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

We will meet in the Lamar Ranch classroom at 8:30 am each day, then do fieldwork until late afternoon.

Family Days in the Lamar—The Wolves Come Home

June 27-29 (#627)

Limit: 20

Location: Lamar Valley

Instructors: Sandra Nykerk & Jim Garry, M.S.
Adult-\$180 (Member's fee \$170)
Child-\$100 (Member's fee \$90)

Join us in the Lamar Valley for an exploration of the ecology of this unique and spectacular area, often referred to as "America's Serengeti." We'll focus on the role of predators including the cultural and biological events leading to the removal and return of the gray wolf to Yellowstone National Park. In the classroom, we will investigate the biology of the wolf and the cultural and political context surrounding this controversial species. Guest speakers, daily field observation, and group hikes will supplement classroom activities. We'll be up early and in the field until dark in our pursuit of the Lamar wolves, so we'll take a midday break. All activities will be paced for families and the final itinerary will be based on the ages and abilities of class participants.

We will meet at 9:00 am on the first day and end at 4:00 pm on the last day. Children must be at least 9 years of age. Families who camp must secure their own campsites early in the day or make reservations through Yellowstone National Park Lodges at 307-344-7311. Participants must provide their own equipment and food, including field lunches. Participants will caravan for field trips.

Introduction to Yellowstone's Birds

June 27-29 (#628)

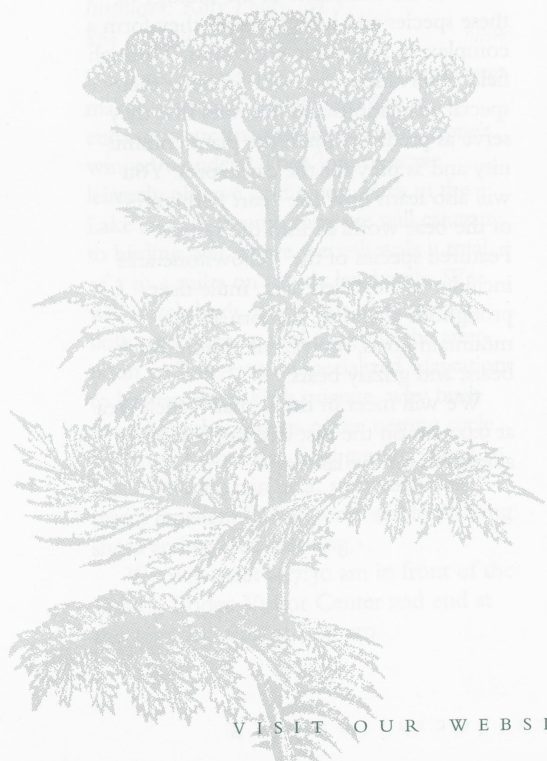
Limit: 13

Location: Lamar Buffalo Ranch

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

Instructor: John Martin, M.S.
\$210 (Member's fee \$200)

Birds are an integral part of Yellowstone's rich and abundant ecosystem. Join us for an evenly paced bird-watching course with challenges for beginners and experts alike. We will discuss individual species' life histories, distribution, population dynamics, ecological roles, and functions of birds in relationship to the Greater Yellowstone ecosystem. After a half-day classroom introduction to bird identification and field ornithology, the remainder of the course is in the field, regardless of weather conditions. We will view many of the birds that occur in Yellowstone, and take a special



boat trip to Frank Island and other points on Yellowstone Lake to observe shorebirds, waterfowl, osprey, and bald eagles.

We will meet at the Lamar Ranch at 9:00 am on the first day and end at 4:00 pm on the last day. Fee includes \$25 for boat trip and course materials.

Horsepacking: "Explorer"

Family (#629)

June 29

NEW

(see description on pg 15)

Favorite Hike Series—Day Hiking a Trail Time Forgot

June 29 (#630)

Limit: 13

Location: Blacktail Ponds/Mt Everts

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

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

NEW

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

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

Horsepacking: "Explorer"

Family (#631)

June 30

(see description on pg 15)

NEW

Interpreting the Geological Landscapes of Yellowstone

June 30 (#632)

Limit: 13

Location: Yellowstone

Instructor: Paul K. Doss, Ph.D.

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

NEW

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

We will meet at Canyon Visitor Center at 8:30 am and end back at Canyon around 5:00 pm.

Wolves of the World

June 30-July 2 (#633)

Limit: 13

Location: Lamar Buffalo Ranch

Instructors: Douglas Smith, Ph.D. &

Christine Smith

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

NEW

Join us for a comprehensive and intensive study of wolves. Through a combination of classroom sessions and field trips to watch wolves, we will examine their habitat and acclimation pens. You will learn about wolves of the world, North America, and Yellowstone National Park. Topics and issues include: population status worldwide, taxonomy, predator-prey relationships, relationships with other carnivores, morphology, and evolution. A discussion of human/livestock/wolf relations will also be conducted. There will be required reading before the class begins as well as during the session. Slide shows and videos will be used in the classroom. Participants should be able to hike 2 to 3 miles.

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

Advanced Birds of Yellowstone

June 30-July 2 (#634)

Limit: 13

Location: Lamar Buffalo Ranch

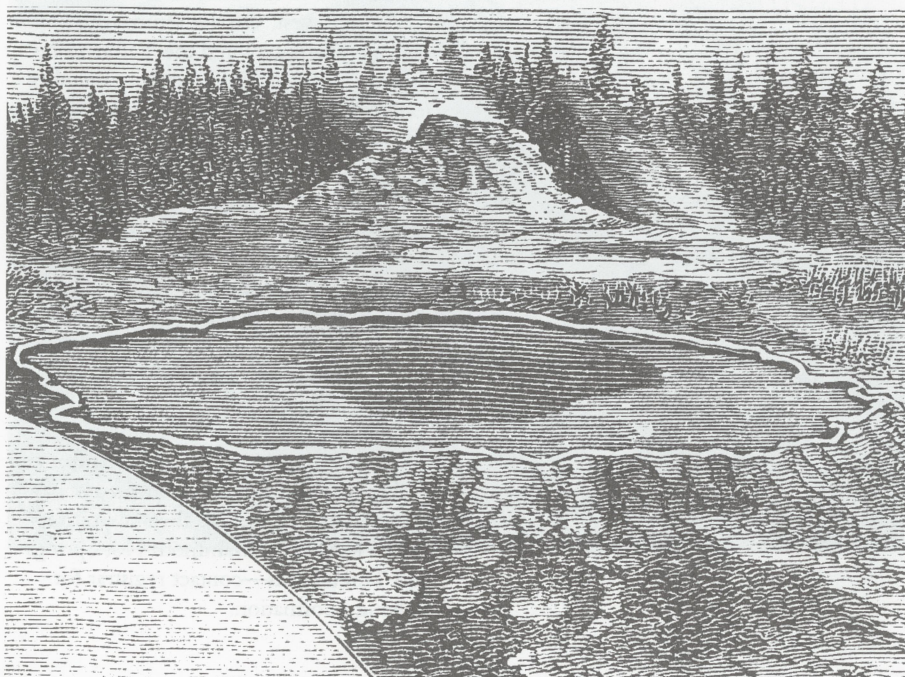
Credit pending: U, 1 semester hour, MSU

Instructor: John Martin, M.S.

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

This course caters to more experienced birders who want to observe hard-to-identify species as well as Yellowstone's hawks, eagles, falcons, and owls. Identification in the field is emphasized regardless of weather. Most of the first day will be spent in the classroom addressing bird identification, advanced topics, and field ornithology. Subsequent field discussions include predation and foraging, breeding strategies, habitat requirements, and conservation measures unique to threatened, endangered, or sensitive birds. We will observe as many breeding birds in Yellowstone as possible and take a special boat trip to Frank Island and other points on Yellowstone Lake to observe shorebirds, waterfowl, osprey, and bald eagles.

We will meet at the Lamar Ranch at 9:00 am on the first day and end at 4:00 pm on the last day. Fee includes \$25 for boat trip and course materials.



Aquatic Insects of Yellowstone

July 3-4 (#701)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U or G, 1 semester hour, ISU

Instructor: Robert Anderson, Ph.D.

\$120 (Member's fee \$110)

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

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

Wolf Watching in Yellowstone

July 3-5 (#702)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Norman A. Bishop

\$170 (Member's fee \$160)

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

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

Beetles, Bugs & Damselflies

July 5-7 (#703)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U or G, 1 semester hour, ISU

Instructor: Robert Anderson, Ph.D.

\$170 (Member's fee \$160)

NEW

Insects and other arthropods are the most abundant, varied, and widespread animals in Yellowstone Park. Their total biomass exceeds that of all the bears, birds, and bison combined, and yet they go unrecognized as they suck sap, pollinate flowers, kill trees, feed fish, and recycle deadwood and carrion. Various macro- and micro-habitats in the park system will be surveyed and characterized in terms of the resident arthropod assemblage, with a focus on the significance of these animals to aesthetics and the park's ecological equilibrium.

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

Exploring Yellowstone by Map & Compass

July 6 (#704)

Limit: 13

Location: Old Faithful Area

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

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

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

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

Along the Yellowstone River with Lewis & Clark

July 6-8 (#705)

Limit: 12

Location: Mammoth Hot Springs/

Three Forks Area

Credit pending: U, 1 semester hour, CSU

Instructor: Jim Garry, M.S.

\$170 (Member's fee \$160)

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

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

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

Artistic Field Journals

July 6-9 (#706)

Limit: 13

Location: Old Faithful Area

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

\$230 (Member's fee \$220)

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

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

Nature Photography in Yellowstone: Building a Foundation for Creativity

July 6-9 (#707)

Limit: 11

Location: Lamar Buffalo Ranch

Instructor: Sandra Nykerk

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

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

Emphasis will be on developing technical excellence and personal vision along with an understanding that a really good nature photographer is an even better naturalist!

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

Plants of Yellowstone

July 8-10 (#708)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Jennifer Whipple, M.A.

\$170 (Member's fee \$160)

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

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

Horsepacking: Life in the Lamar Valley

July 8-13 (#709)

Limit: 8

Location: Lamar River Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

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

NEW

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

Wilderness Pack Trips, Inc. is a top-quality business that consistently receives the highest ratings from the National Park Service. This trip includes interpretive activities, all group equipment, and five-course meals prepared by the outfitter.

We will meet at the Lamar River trailhead at 9:00 am on the first day and return to the same trailhead around 3:00 pm on the last day. Please see general horsepacking information on pg 8.





Great Earth Odyssey

July 10-12 (#710)

Limit: 13

Location: Old Faithful Area

Credit pending: U, 1 semester hour, CSU

Instructors: Julie A. Scanlin, Deborah Page,

& Roy Mink, Ph.D.

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

Yellowstone is the ideal backdrop for the study of geothermal systems. The dynamic geysers, bubbling mud pots, and colorful hot springs we see on the surface are, however, only part of the story. Beneath our feet is another fascinating world rich in untapped and possibly even unidentified resources. We will review how geologic structures, the earth's inner heat, and groundwater work in concert to produce these and other geothermal features.

This course will be of particular benefit to K-8 teachers and non-science specialists because it illustrates a new interdisciplinary geothermal education curriculum. We will explore basic earth science, history, geography, and language arts through classroom activities and field trips. Be prepared for outdoor field trips and lessons about one-third of the time.

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

Amphibians & Reptiles of the Greater Yellowstone Ecosystem

July 10-12 (#711)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U or G, 1 semester hour, ISU

Instructors: Charles R. Peterson, Ph.D. &

Debra A. Patla, M.S.

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

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

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

Yellowstone's Fishes: Beyond Angling

July 11-13 (#712)

Limit: 13

Location: Lamar Buffalo Ranch

Instructors: Dan Mahony, M.S. & National

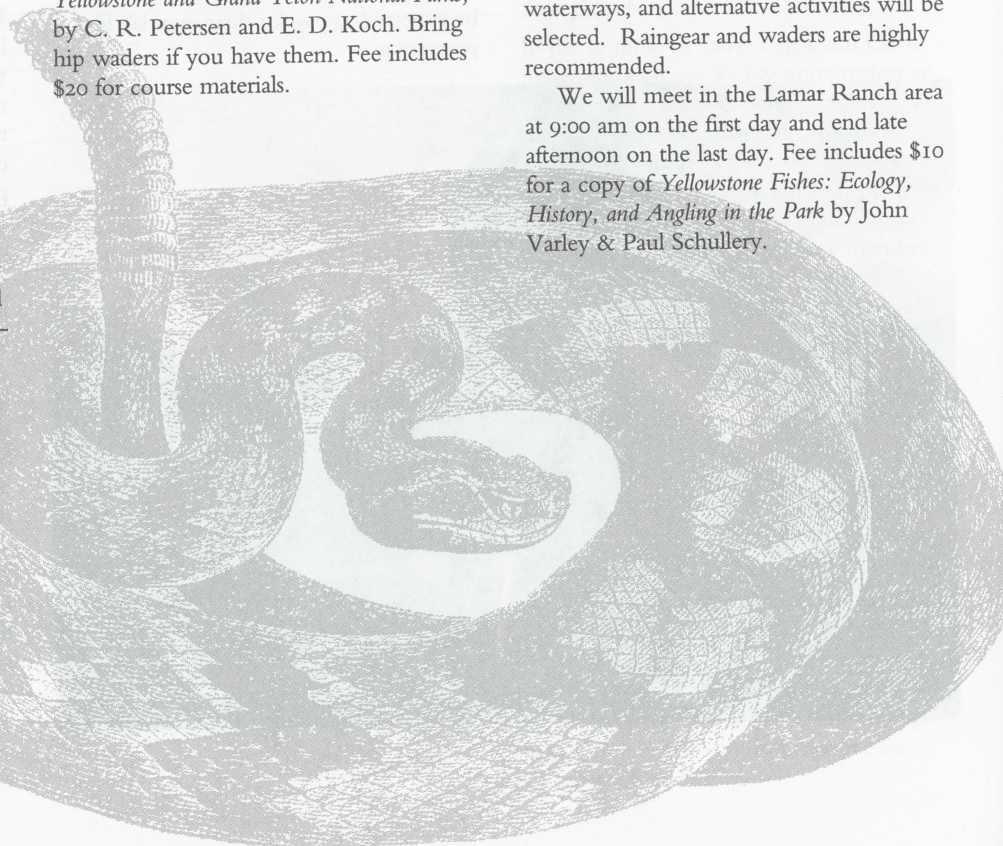
Park Service (NPS) Fisheries Biologists

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

Yellowstone Park fishes have been highly valued by anglers since the park was established more than a century ago. Less well known to many park visitors are the interactions between these fish populations, their predators and other aquatic residents. Changes in abundance or distribution of the park's fish populations affect numerous other species of the surrounding ecosystem. Fishery biologists from the NPS Aquatic Resources Center will discuss current threats to Yellowstone's fishes and examine management options to ensure perpetuation of these aquatic residents.

Discussions will be supplemented by a "behind the scenes" tour of waterways in the park where current NPS fishery management is focused. You may assist with gillnetting, examine suspected whirling disease sites, capture spawning Yellowstone cutthroat trout, visit westslope cutthroat trout restoration sites, travel to areas affected by water quality or irrigation diversions, or sample aquatic invertebrates. High water conditions may prevent access to some waterways, and alternative activities will be selected. Raingear and waders are highly recommended.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end late afternoon on the last day. Fee includes \$10 for a copy of *Yellowstone Fishes: Ecology, History, and Angling in the Park* by John Varley & Paul Schullery.



Field Photography in Yellowstone: The Creative Image

July 12-15 (#713)

Limit: 11

Location: Yellowstone Area

Instructor: Sandra Nykerk

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

Bring your camera and visually explore Yellowstone while developing your photographic skills in the field. The first morning will be spent in the classroom; from there, we'll move to the "classroom in the great outdoors." We'll photograph many of Yellowstone's special places, including the thermal features of Mammoth, the scenic landscapes of the Grand Canyon of the Yellowstone and Yellowstone Lake, and the dramatic hues of the Old Faithful area geyser basins, all the while allowing for the serendipity of wildlife. There will be special emphasis on the evolution of personal vision and creativity, and the importance of natural history knowledge to the nature photographer. This is an intermediate level course for those who have a working understanding of photographic principles and a fundamental familiarity with their equipment.

We will meet in the Mammoth area at 9:00 am on the first day and end in the Old Faithful area at 4:00 pm on the last day. We recommend the following dates and areas for camping or lodging: July 11 & 12—Mammoth area; July 13—Yellowstone Lake area; July 14 & 15—Old Faithful area. Rooms have been set aside at Mammoth, Lake, and Old Faithful—contact registrar for reservation information.

Favorite Hike Series— Wanderings Through Wonderland

July 13 (#714)

Limit: 13

Location: Yellowstone Lake

Instructor: Roger Anderson, M.A.

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

NEW

Get away into the heart of Yellowstone by exploring the many wonders of Yellowstone Lake on two trails in the Fishing Bridge area. Our day begins with a moderate 4-mile loop hike with an elevation gain of 800 feet to the summit of Elephant Back Mountain. Climb this ancient lava flow to an overlook that will reveal a sweeping panoramic view of Yellowstone Lake. After lunch, we'll get a closer look at this magnificent mountain lake as we follow its winding shoreline to the rocky bluff of Storm Point. This is an easy 2.5-mile loop trail. Along the way, learn about the dramatic geologic events that formed Yellowstone Lake and the mysteries that lie hidden within it.

We will meet in front of the Fishing Bridge Visitor Center at 8:30 am and end mid-afternoon that day.

Family Adventures at the Buffalo Ranch

July 14-16 (#715)

Limit: 25

Location: Lamar Buffalo Ranch

Instructors: Bobbi Geise &

Lidie Whittier Robbins, M.Ed.

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

Child-\$100 (Member's fee \$90)

NEW

Discover Yellowstone's natural wonders in a learning adventure for the whole family. From hot springs to petrified forests to scenic valleys teeming with wildlife, we'll explore different habitats in search of answers to nature's mysteries. A variety of activities will encourage hands-on exploration and discovery. Early morning and evening sessions will be included in the fun. Be prepared for easy-paced hikes of several miles each day.

We will meet at the Lamar Ranch at 10:00 am on the first day and end at 1:00 pm on the last day. Children must be at least 7 years of age.

Geysers, Mud Pots & Hot Springs

July 14-16 (#716)

Limit: 13

July 18-20 (#720)

Limit: 13

Location: Old Faithful Area

Credit pending: U, 1 semester hour,

MSU, CSU

Instructor: Duncan Foley, Ph.D.

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

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

We will meet at the Canyon Visitor Center at 11:00 am on the first day, and proceed to Old Faithful by evening. The second day will be spent in the Upper, Midway, and Lower Geyser Basins, where we will try to see several of the major geysers erupt. On the third day we will start at Norris Geyser Basin, and finish in late afternoon at Mammoth. Be prepared each day for all kinds of weather and on- and off-trail hikes of 2 to 3 miles. No background in geology is required for this class. Fee does not include lodging. This class will be based at Old Faithful. Rooms have been set aside at Old Faithful—contact registrar for reservation information.

Birds, Bees, Butterflies & Botany

July 17-19 (#717)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Peg Steunenberg

\$170 (Member's fee \$160)

NEW

To draw it is to know it. See and explore Yellowstone in a completely new way through drawing its beautiful wildflowers and their pollinators. By using both bird and insect specimens (provided in class), participants discover that basic anatomy provides the roadmap for an accurate rendering. Short morning hikes with field sketching are followed by afternoon sessions refining sketches and progressing to work in color. Demonstrations in watercolor and colored pencil will be offered. A detailed course outline and explanatory technique notes are provided.

Classes run from 8:30 am to 5:00 pm on the first and second day and 8:30 am to 4:00 pm on the last day.

Fly-Fishing for Women I

July 17-19 (#718)

Limit: 6

Location: Mammoth Hot Springs

Instructor: Rhea Topping

\$230 (Member's fee \$220)

Jump-start your interest in fly-fishing! We will cover all the basics: knots, equipment, fly patterns and the insects they imitate, playing and landing a fish, wading safety, catch-and-release fishing, and fly-fishing etiquette with an emphasis on developing good casting skills.

You will visit and fish a variety of rivers in the prettiest classroom ever, Yellowstone National Park! There will be time to practice and fish on your own, and view wildlife at dusk, returning late each evening to Mammoth.

Meet at Mammoth Hot Springs in the hotel lobby at 2:00 pm on the first day with your fly rod and reel, and end in the late afternoon on the last day. Yellowstone Park fishing permits are required and are available at most visitor centers. Participants must provide their own equipment. Rooms have been set aside at Mammoth Hot Springs—contact registrar for reservation information.



Wildflowers & Wildfire

July 20-21 (#721)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Wayne Phillips

\$130 (Member's fee \$120)

Fires raged in forests throughout the West in the summer of 2000, one of the worst fire seasons in 100 years or more. 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 wildfire 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 re-visited, studied, and compared with photos taken in subsequent years. We will learn to identify the wildflowers, shrubs, grasses and trees that are growing in the burned areas. Expect to walk 1 to 2 miles with up to 500 feet of elevation gain.

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

Fly-Fishing for Women II

July 20-22 (#722)

Limit: 6

Location: Mammoth Hot Springs

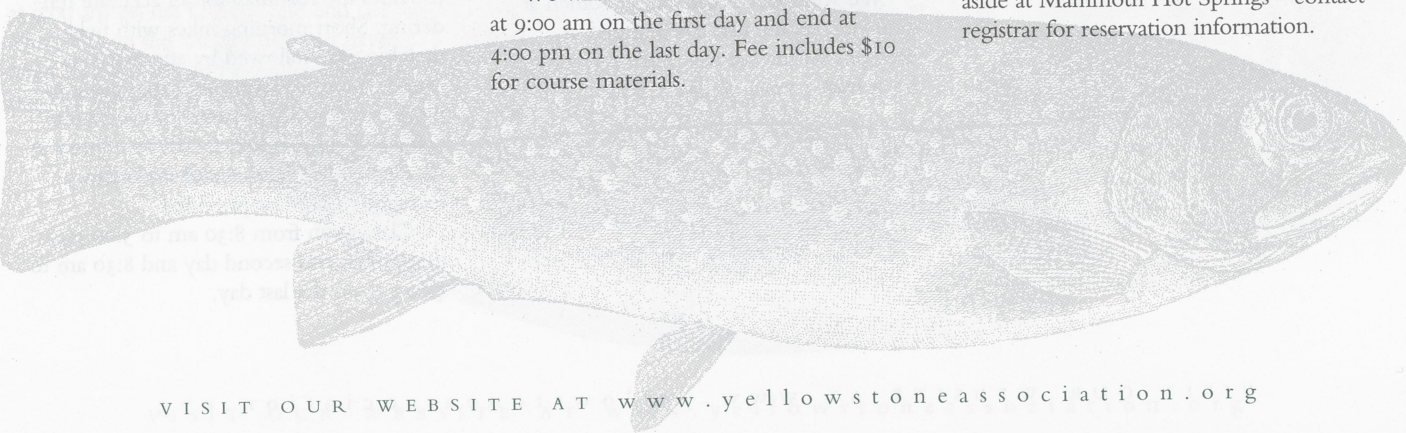
Instructor: Rhea Topping

\$230 (Member's fee \$220)

NEW

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

Meet at Mammoth Hot Springs in the hotel lobby at 2:00 pm on the first day, and end in the late afternoon on the last day. Yellowstone Park fishing permits are required and are available at most visitor centers. Participants must provide their own equipment. Rooms have been set aside at Mammoth Hot Springs—contact registrar for reservation information.



Shoshone Lake Sea Kayaking

July 20-23 (#723) *Limit: 6*
 August 10-13 (#810) *Limit: 6*
 September 7-10 (#905) *Limit: 6*
 Location: Shoshone Lake,

Yellowstone Backcountry

Instructor: Jackson Hole Kayak School
 \$695 (Member's fee \$685)

A combination of wilderness travels without a backpack and natural history exploration—what could be better? The focus of these trips will be general Yellowstone natural history, thermal geomorphology and ecology, and fire ecology. We'll also learn appropriate outdoor and sea-kayaking skills. Experts in both wilderness sea kayaking and Yellowstone natural history lead all trips. Highlights of this adventure include the opportunity to explore backcountry thermal features, view wildlife in their natural habitat, camp near pristine shores, and fish and hike in relative solitude.

You will explore Lewis Lake, then tow your kayak about 1 mile through Lewis River channel to roadless Shoshone Lake, headwaters of the Snake River. You will spend two full days (three nights) on Shoshone Lake kayaking, swimming, fishing, and exploring the wonders of nearby Shoshone Geyser Basin. No prior kayak experience is required but this is an active course and not for the novice camper. We will paddle approximately 30 miles in four days and hike about 6 miles one day.

We will meet at the Lewis Lake campground boat dock at 9:00 am on the first day and end late afternoon on the last day. Fee includes all kayaking equipment, group camping gear, and food.

Uncovering Secrets of the Lower Geyser Basin

July 21-22 (#724) *Limit: 13*
 Location: Old Faithful Area
 Instructor: Orville E. Bach, Jr., Ed.D.
 \$120 (Member's fee \$110) **NEW**

Have you ever imagined what early explorers experienced when they discovered Yellowstone's thermal basins? The Lower Geyser Basin with its rare and remote thermal features provides an opportunity to experience the sense of discovery.

Our two-day course will primarily consist of short hikes in the field to view spectacular hot pools, mud pots, and geysers, and to study the fascinating geology and ecology of Yellowstone thermal basins.

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

Smoking Mountains—Indians & Yellowstone Park

July 21-23 (#725) *Limit: 13*
 Location: Lamar Buffalo Ranch
 Instructor: Jeanne M. Eder, M.A.
 \$135 (Member's fee \$125)

Join us as we learn about the people who first inhabited the "Smoking Mountains" of Yellowstone. Through a combination of classroom and field time, we will examine the history of Indians in Yellowstone Park and their spiritual concepts for living in harmony in nature. We will enjoy a traditional Indian meal, watch videos to enhance our understanding of Indian people, and take field trips to approved sites.

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

Hiking Through Time—Day Hikes Into the Geological Past

July 22-24 (#726) *Limit: 13*
 Location: Lamar Buffalo Ranch
 Instructor: Tom Watson, M.A.
 \$170 (Member's fee \$160)

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

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

Alpine Wildflower Walks

July 22-24 (#727) *Limit: 13*
 Location: Cooke City, Montana
 Credit pending: U, 1 semester hour,
 U of MT, CSU

Instructor: Wayne Phillips
 \$145 (Member's fee \$135)

Wildflowers growing in the alpine tundra above tree line will be the focus of this course. Participants will hike through the high country of the Beartooth Plateau to study the beauty of flowers found only in circumpolar arctic environments and on the highest mountaintops south of the arctic. A variety of alpine ecosystems will be studied: the "krummholz," a wind battered, horizontal pygmy forest; the cushion plants of boulder fellfields; alpine meadows; and receding snowbanks. You will hike off-trail through rugged boulder-strewn terrain with numerous stream and snow-bank crossings, at elevations of 9,000 to 11,000 feet. Be prepared to hike 4 to 6 miles or more, with elevation gains of 500 to 2,000 feet. Participants should be physically fit and prepared for strenuous hikes in rugged terrain.

We will meet in Cooke City at 4:00 pm on the first day and end at 4:00 pm on the last day. Fee includes \$10 for course materials.



Horsepacking: The Bannock Indian Trail

July 22-25 (#728)

Limit: 8

Location: Lamar River Valley

Instructors: Mike & Erin Thompson,
Wilderness Pack Trips, Inc.

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

NEW

For Indian buffalo hunters in the mid-1880's, the "Great Bannock Trail" was a major thoroughfare across the Rocky Mountains, from Camas Meadows in Idaho across what is now Yellowstone Park and into the Clark's Fork River of Wyoming. We will ride a portion of this historic trail along the Cache-Calfee ridge to Canoe Lake, where the trail drops into the Clark's Fork drainage. Course emphasis will be on the Indian tribes associated with the Bannock Trail, including their histories, hunting methods and lifestyles. This course requires extensive riding.

Wilderness Pack Trips, Inc. is a top-quality business that consistently receives the highest ratings from the National Park Service. This trip includes interpretive activities, all group equipment, and five-course meals prepared by the outfitter.

We will meet at the Lamar River trailhead at 8:30 am and return to the same trailhead around 3:00 pm on the last day. Please see general horsepacking information on pg 8.

The Lesser-Known Carnivores of the Greater Yellowstone Ecosystem

July 24-26 (#729)

Limit: 13

Location: Lamar Buffalo Ranch

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

Instructor: James Halfpenny, Ph.D.

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

NEW

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

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

History of Yellowstone Photographers

July 25-26 (#730)

Limit: 13

Location: Lamar Buffalo Ranch

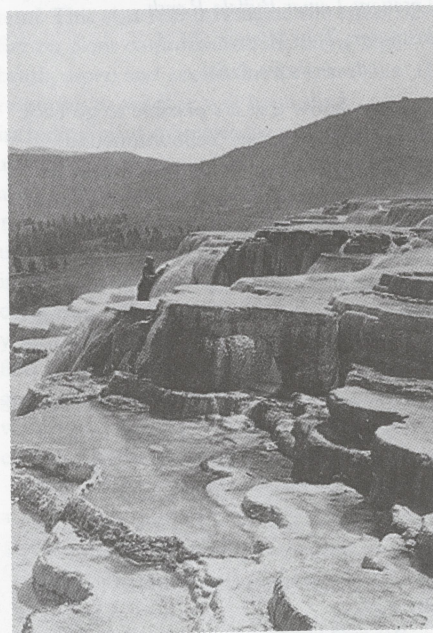
Instructor: Lee H. Whittlesey, J.D.

\$120 (Member's fee \$110)

Yellowstone was a mecca for photographers in the late 19th and early 20th centuries. Major and minor figures in American photography in the 1870s and 1880s—William Henry Jackson, F. Jay Haynes, Joshua Crissman, Henry Bird Calfee, Thomas Hine, A.F. Thrasher, Bundy and Train, Rutter and Nesbitt, and L.A. Huffman—found Yellowstone to be a natural template for an ever-changing interpretation of America's western wilderness.

We will examine the history of American photography through the photographic interpretation of Yellowstone. We will study many actual images and discuss the "sweat and inspiration" behind them, the taste of the times, the demands of an enthusiastic public, and the difficulty of reaching the Yellowstone wonderland. We also will examine actual 19th century images from the park's own collection that you would otherwise have very little chance to see.

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



W.H. Jackson photograph of Mammoth Terraces, 1872.

Weather Cycles in the Big Sky

July 27-29 (#731)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Dave Thurlow

\$170 (Member's fee \$160)

The cyclical behavior of the atmosphere, day-to-day, season-to-season, and year-to-year instills a sense of wonder, respect, and curiosity in those who choose to take notice. This course will give you a basic understanding of how weather works—from micro to global scale. Simple observational parameters and cloud types will be discussed, giving you the language to describe the atmosphere and the knowledge to make your own forecasts.

Yellowstone offers prime weather viewing opportunities, and we will be flexible enough to take advantage of anything that pops up. Much of our time will be spent in the field, including a full day hike to the weather observatory atop Mt. Washburn. Through slides, video, and direct observations, the focus will be on the summer weather patterns of Yellowstone.

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

Fossils of Yellowstone

July 27-29 (#732)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U or G, 1 semester hour, CSU

Instructor: Vincent L. Santucci

\$170 (Member's fee \$160)

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

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

Old Times at Old Faithful

July 28 (#733)

Limit: 15

Location: Old Faithful Area

Instructor: Leslie J. Quinn, M.Ed.

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

Since 1870 when the Washburn party named Old Faithful, the land around the geyser has been the most visited part of the Yellowstone area. The village of Old Faithful is a fascinating and important cultural landmark for our national parks. This field course will examine the changing face and cultural history of the village. We will visit the Bear's Playground, Wylie "Permanent" Camp, the former and current sites of the Haynes Photo Shops, and the Inn, Lodge, and Hamilton Stores. You will learn many interesting historical facts (why do they call the Upper Hamilton Store the "B.A.C."?) and view antique photographs as we explore the past.

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

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

Ghost Hotels of Yellowstone

July 29 (#734)

Limit: 12

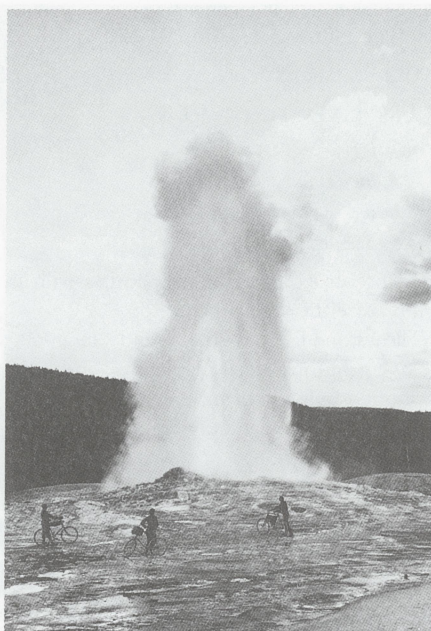
Location: Old Faithful Area

Instructor: Leslie J. Quinn, M.Ed.

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

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

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



Old Faithful Geyser (and 3 bicyclists), 1895.

Horsepacking: Poacher's Cabin

July 29-August 1 (#735)

Limit: 8

Location: Pelican Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

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

Step back in time to the era when poachers plied their trade in Yellowstone. In this course, we will learn about "Leave No Trace" horsepacking as we explore the impact of poachers on the preservation of America's first national park, from the early days to the present. Participants will visit the remains of one poacher's cabin and discuss the challenges of wildlife management in the park. Day rides will include the "Poacher's Cabin," Joseph's Coat Springs and a variety of wildlife/waterfowl viewing areas.

Wilderness Pack Trips, Inc. is a top-quality business that consistently receives the highest ratings from the National Park Service. This trip includes interpretive activities, all group equipment, and five-course meals prepared by the outfitter.

We will meet at the Pelican Valley Trailhead at 9:00 am on the first day and return to the same trailhead around 4:00 pm on the last day. Please see general horsepacking information on pg 8.

Exploring Yellowstone's Microbes

July 30-August 2 (#736)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, PSU

Instructors: Anna-Louise Reysenbach, Ph.D.

& Dorothee Gotz, Ph.D.

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

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

A short introduction each day precedes a visit and occasional short hike to a hot spring area. Grow the organisms in laboratory media that mimics the hot spring environment and be exposed to PCR and DNA techniques used to study microbial diversity. Evening lectures will include an informal presentation of the biology of deep-sea hydrothermal vents and guest lectures from experts in microbial and virus ecology of thermal environments. No background in microbiology is required. A basic understanding of biology is recommended.

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

Day Hiking in Yellowstone

July 31-August 3 (#737)

Limit: 13

August 6-9 (#808)

Limit: 13

Location: Lamar Buffalo Ranch

Instructors: Michael Bartley &

Marla Covey, M.S.

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

Join us as we explore Yellowstone beyond road's end. Day hiking in the park provides a unique opportunity to experience the wild places and varied landscapes of Yellowstone, without the burden of a heavy pack. Each day's hike will include both formal and informal discussions on the natural and cultural history of Yellowstone, and wilderness travel.

Be prepared to hike 5 to 10 miles each day with elevation gains up to 1,500 feet. Participants must be in good physical condition.

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

Fly-Fishing for Teens (Ages 13-16)

July 31-August 3 (#738)

Limit: 6

Location: Mammoth Hot Springs

Instructor: Rhea Topping

\$230 (Member's fee \$220)

NEW

Let your parents drop you off each morning at the hotel at Mammoth Hot Springs and pick you up after dark. While they go sightseeing, you can go fly-fishing in the park!

We will cover all the basics: knot tying, fly patterns, equipment, playing and landing fish, wading safety, good fishing manners, and examining real insects and learning to identify them. Emphasis will be placed on developing good casting skills that will quickly allow you to fish on your own.

Meet at Mammoth Hot Springs in the hotel lobby at 2:00 pm on the first day, and end late afternoon on the last day. Yellowstone Park fishing permits are required and are available at most visitor centers. Participants must provide their own equipment. Rooms have been set aside at Mammoth Hot Springs—contact registrar for reservation information.

Fly-Fishing the Catch and Release Way— Less Experienced

August 3-5 (#801)

Limit: 8

Location: Lamar Buffalo Ranch

Instructor: Richard Parks

\$230 (Member's fee \$220)

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

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

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

Favorite Hike Series— Pebble Creek in a Day

August 4 (#802)

Limit: 13

Location: Pebble Creek Area

Instructor: Bill Schneider

\$65 (Member's fee \$155)

NEW

This is a 12-mile, point-to-point route starting at the just west of the Northeast Entrance and ending at Pebble Creek Campground. The route has a moderately difficult hill for the first two miles and then it's 10 miles downhill to the campground. Along the way, we can talk about bear awareness and how recreational use has changed Pebble Creek through the years. Participants should be physically able to hike 12 miles at a moderate pace.

We will meet at the Lamar Buffalo Ranch area at 8:00 am and end late afternoon.

Kayaking Yellowstone Lake

August 4 (#803)

Limit: 12

August 18 (#816)

Limit: 12

Location: Yellowstone Lake

Instructor: Jackson Hole Kayak School

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

NEW

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

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

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

The Bison of Yellowstone

August 4-6 (#804)

Limit: 13

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour, MSU

Instructors: Jim Gary, M.S. &

Harold Picton, Ph.D.

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

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

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



Day Hiking in Yellowstone

August 6-9 (#807)

(see description on pg 28)

Geology of the Yellowstone Country



August 6-10 (#808)

Limit: 13

Location: Lamar Buffalo Ranch
& Old Faithful Area

Credit pending: U or G, 1 semester hour,
U of WY, U of MT

Instructor: David Fountain, Ph.D.

\$280 (Member's fee \$270)

Explore the geologic history of Yellowstone Park from its ancient beginnings to the spectacular eruptions that formed the world's largest known calderas. Daily field excursions through the park will introduce you to such topics as volcanic rocks and processes, glaciation, earthquakes and faulting, hydrothermal features, sedimentary rocks and processes, metamorphism, and tectonics. Be prepared to hike 1.5 to 2 miles up to Specimen Ridge, an elevation gain of 800 feet. Completion of an introductory geology course is preferred but not required.

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

Favorite Hike Series—Crest of the Absarokas

August 5 (#805)

Limit: 13

Location: Jones Pass on the East Entrance Road
Instructor: Mark Marshall

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

NEW

Follow an old unburned fire line through a variety of vegetation zones to a seldom-visited portion of the park's east boundary. We'll observe a variety of flowers, glass open hillsides for grizzly bears and elk, look down over Yellowstone Lake, and investigate the results of fires from 1988 and 2000 (our two biggest fire years). Most of the hike is in unburned forest and alpine meadow. Be prepared to climb 1000 feet in 3 miles. Moderately sturdy footwear with good traction is recommended. Roundtrip distance is 7 miles.

We will meet at the Fishing Bridge Visitor Center at 9:00 am and end around 6:00 pm that day.

Yellowstone's Southern Roadside History



August 6-8 (#806)

Limit: 13

Location: Old Faithful Area

Instructor: Lee H. Whittlesey, J.D.

\$170 (Member's fee \$160)

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 2 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. Field trips 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. Included in our discussions will be stories of early violent deaths in the park from the instructor's book, *Death in Yellowstone*.

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

Introduction to Mammal Tracking

August 9 (#809)

Limit: 13

Location: Gardiner, Montana

Instructor: James Halfpenny, Ph.D.

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

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, will include foot anatomy, footprint information content and identification, averaging, relative size, animal movements and gaits, trails, and stories. In the afternoon, we will travel to one of Yellowstone's hottest tracking areas to learn about locating footprints, making plaster casts, following faint trails, and interpreting stories. Bring a sack lunch and expect to get wet and muddy. Be prepared to hike up to 2 miles round trip.

We will meet at the Track Museum in Gardiner at 8:00 am and end at 5:00 pm in Gardiner.

Shoshone Lake Sea Kayaking

August 10-13 (#810)

(see description on pg 25)

Backpacking Yellowstone—The Gallatin Region

August 11-15 (#811)

Limit: 8

Location: Gallatin Range

Instructors: Michael Bartley &

Marla Covey, M.S.

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

Backpack into the rugged and wild northwest corner of Yellowstone Park for magnificent high country with some of the finest views in all of Yellowstone. Starting near Swan Flat we will cross the Gallatin Range, a land of exceptional beauty, and end the trip along Fan Creek. Elk, deer, moose, bighorn sheep, and bears are abundant in this region. Daily classes will cover backpacking skills, the area's natural history, park management issues, and wilderness ethics. Throughout the trip we will practice the principles and skills of "Leave No Trace" camping and travel.

Participants must be prepared for a strenuous hike of 24 miles with an elevation gain of nearly 3,000 feet. There will be a one-day layover for rest or a climb up Electric Peak, one of the great mountains in Yellowstone.

We will meet at the Fawn Pass trailhead in the park's northwest corner at 8:00 am on the first day and be shuttled to the Glen Creek trailhead near Mammoth. The course will end late afternoon on the last day at the Fawn Pass trailhead. Please see general backpacking information on pg 8. The nearest campground or lodging is in West Yellowstone, Montana.

Fire & Ice—Yellowstone's Last Two Million Years

August 12-14 (#812)

Limit: 13

Location: Canyon

Credit pending: U or G, 1 semester hour,

U of MT

Instructor: David Fountain, Ph.D.

\$170 (Member's fee \$160)

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

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

Discover Your Sky—Observing Techniques for Backyard Astronomers

August 12-14 (#813)

Limit: 13

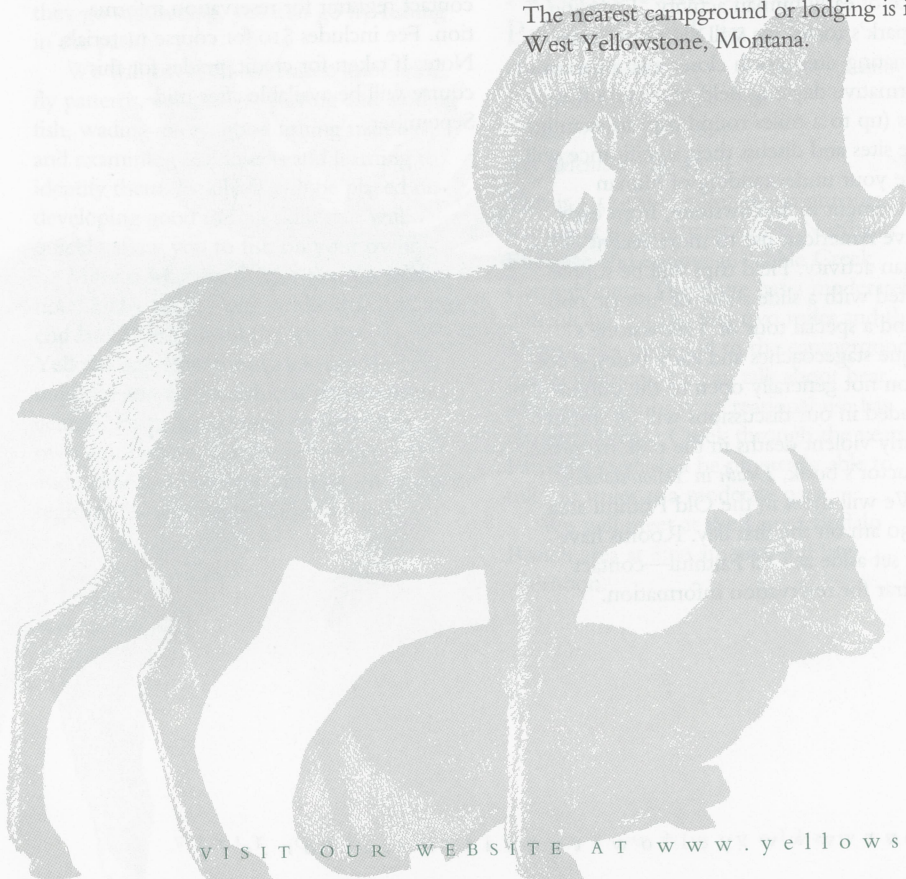
Location: Lamar Buffalo Ranch

Instructor: Mike Murray

\$185 (Member's fee \$175)

If you've ever wanted to learn the "tricks" for easily getting around the sky, then this class is for you! In this workshop, we will use slides, star maps, an inflatable "Starlab" planetarium, and observations of the pristine Yellowstone night sky to develop your skills for finding astronomical wonders. We will discuss how best to choose, use, and care for a telescope, and examine several types. We will use binoculars and a large-aperture telescope for evening observing sessions. This course coincides with the peak of the Perseid Meteor Shower.

We will meet in the Lamar Ranch area at 7:30 pm on the first day and begin our evening observing sessions at 10:00 pm each night. Fee includes \$15 for course materials.



Horsepacking: Mirror Plateau's Druid Pack

August 12-17 (#814)

Limit: 8

Location: Lamar Valley

Instructors: Mike & Erin Thompson,
Wilderness Pack Trips, Inc.

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

NEW

Late each summer, wolves from Yellowstone's famous Druid pack leave the valley floor and head for the high country of the Mirror Plateau, where they find abundant food for their new pups. We will travel through this country with wolf expert Dr. Mark Johnson, D.V.M., who was the attending physician during the capture and transport of the wolves from Canada to Yellowstone. Dr. Johnson will share his knowledge of the park's wolves during day rides into prime wolf habitat. If we're lucky, we might even see the wolves or have an opportunity to make casts of their tracks.

Wilderness Pack Trips, Inc. is a top-quality business that consistently receives the highest ratings from the National Park Service. This trip includes interpretive activities, all group equipment, and five-course meals prepared by the outfitter.

We will meet at the Lamar River trailhead at 9:00 am on the first day and return to the same trailhead around 3:00 pm on the last day. Please see general horsepacking information on pg 8.

Creating with the Elements

August 12-17 (#815)

Limit: 13

Location: Lamar Buffalo Ranch

Instructors: Dorothy Hinshaw Patent, Ph.D.
& Deborah Jane Milton, Ph.D.

\$285 (Member's fee \$275)

Are you curious about your creative response to the elements of earth, air, fire and water? If so, this is the course for you. We will explore the interactive dance between word and image inspired by Yellowstone's elemental power. Through a combination of classroom and field time, we will practice metaphor, examine point of view, rambunctious verbs, the magic of poetry, values, shape and form, composition, and expressiveness. As we deepen our relationship to the elements, we will expand sensory awareness, develop observational skills, build confidence, and nurture our unique creative voices.

Be prepared for easy to moderate off-trail hikes. Evening activities will vary and may include a night around the campfire and a picnic supper on a high bluff at twilight.

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

Kayaking Yellowstone Lake

August 18 (#816)

NEW

(see description on pg 28)

Backpacking—Old Faithful to the Bechler Region

August 18-23 (#817)

Limit: 8

Location: Old Faithful/Bechler

Instructors: Michael Bartley &

Marla Covey, M.S.

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

Hike with us from the Old Faithful area up over the Continental Divide to Cascade Corner, a land of dramatic waterfalls and gentle beauty, where the moist climate and relatively low altitude combine to create an exceptionally rich variety of flora and fauna. Daily classes will explore a variety of subjects including backpacking skills, the area's natural history, park management issues, and wilderness ethics. Throughout the trip we will be practicing the principles and skills of "Leave No Trace" camping and travel.

This six-day trip is 30 miles in length with less than a 1,000-foot elevation gain and numerous stream crossings. We will have one layover for rest, exploration, and a dip into one of the finest hot springs in the world. We will meet at the Bechler Ranger Station at 8:00 am at which time we will be shuttled to the Lone Star trailhead near Old Faithful. The course will end late afternoon on the last day at the Bechler Ranger Station. Please see general backpacking information on pg 8. The nearest campground or lodging is the Cave Falls Campground or in Ashton, Idaho.

Base Camp in the Beartooths— A Mountain Journey

August 25-28 (#818)

Limit: 8

Location: Beartooth Wilderness

Instructors: Michael Bartley &
Marla Covey, M.S.

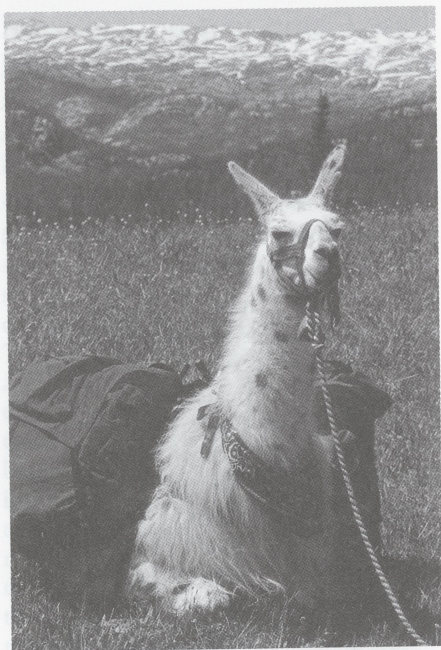
\$290 (Member's fee \$280)

Immerse yourself in one of the finest wild areas in North America—the Absaroka Beartooth Wilderness. For those who want a true wilderness experience in the Greater Yellowstone ecosystem, we will hike to a backcountry base camp and explore the surrounding mountains from there. Around the campfire and on the trail, we'll talk about the meaning of wilderness and learn how to minimize our impact in this fragile alpine environment. There will be plenty of time to relax and reflect in this spectacular setting.

Be prepared to hike 5 to 6 miles, carrying a full backpack to and from base camp, to an elevation above 9,000 feet. There will be some steep climbs.

We will meet at the Top of the World Store between Cooke City and Beartooth Pass at 9:00 am on the first day and end late afternoon on the last day. Please see general backpacking information on pg 8. The nearest campground is the Island Lake Campground, located in the Beartooth Mountains and operated by the Forest Service.





Horsepacking: Then and Now

August 26-29 (#819)

Limit: 8

Location: Pelican Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

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

NEW

Horses were the primary mode of transportation for the mountain men of the 1800's; John Colter, Jim Bridger and Osborne Russell explored the Indian trails, packed supplies, hunted, and trapped the Yellowstone Country on horseback. In this course, we will discuss the history of the mountain men and learn some of the same skills they used in their daily existence, including hitching, map reading, stock use, and camp maintenance. To update these skills for the next century, we will practice the latest "Leave No Trace" horsepacking techniques.

Wilderness Pack Trips, Inc. is a top-quality business that consistently receives the highest ratings from the National Park Service. This trip includes interpretive activities, all group equipment, and five-course meals prepared by the outfitter.

We will meet at the Pelican Valley trailhead at 8:30 am on the first day and return to the same trailhead around 4:00 pm on the last day. Please see general horsepacking information on pg 8.

Beartooth Mountain Llama Trek

September 1-4 (#901)

Limit: 10

Location: Beartooth Wilderness

Instructor: Nathan Varley, M.S.

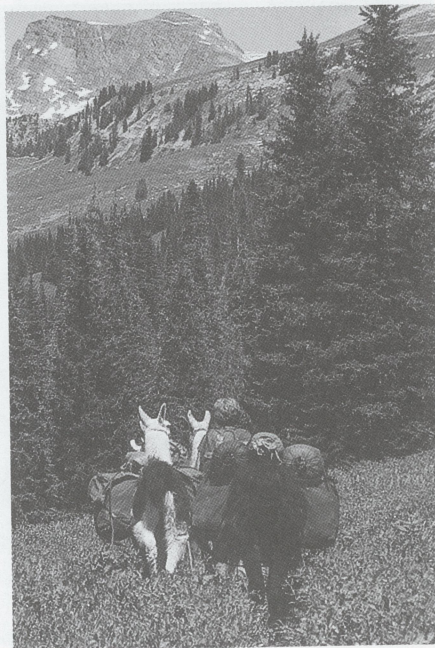
\$595 (Member's fee \$585)

NEW

Explore the high country of the majestic Beartooth Mountains in the style of the Incas with an expert llama packer and string of experienced pack animals. Thousands of years ago the Incas bred llamas to pack high in the Andes of South America. Whereas camels are known as "ships of the desert," their llama cousins are known as "ships of the mountains." Learn about llamas, their history and relationship to humans as they support our expedition. Once on the Beartooth Plateau, we will focus on the ecology of the alpine ecosystem, and the geology, climate, vegetation and wildlife that are found in this enchanting but extreme realm.

This course is for the hardy backcountry traveler. Hikes through rugged mountain terrain are strenuous and include climbs of over 6 miles and 2,000 feet elevation gain/loss. The llamas will transport all food, group gear, and 20 pounds of personal gear per person. Each person must provide their own sleeping bag, pad, eating utensils, clothes, and backpack. Fee includes group equipment (tent, stoves, fuels, etc.), food, llama packing, and food preparation by the staff.

We will meet in the Beartooth Wilderness at 8:00 am on the first day and end at 4:00 pm on the last day.



Favorite Hike Series— Day Hike in the Absarokas—A Classic Yellowstone Adventure

September 2 (#902)

Limit: 13

Location: Lake Area/East Entrance Road

Instructor: Tom Carter, B.A., J.D.

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

NEW

"This hike changed my life," declares our course instructor. "It was my first Yellowstone hike and—almost 4,000 hiking miles later—it's still my favorite!" Together we'll explore the rugged Absaroka Mountains and dazzling Yellowstone Lake. We'll investigate the dramatic geologic events that formed these magnificent features and learn how they fit into Yellowstone's grand geologic puzzle. We'll examine the area's human history, too. What was it like to discover and map Yellowstone Lake? Who was the first to successfully cross the Absarokas? Is there anything left to discover in Yellowstone?

We start at Yellowstone Lake with a short orientation and discussion of the day's objectives and drive to the trailhead. Our 4-mile (round-trip) hike will ascend 2,100 feet to the summit of Avalanche Peak (10,566 feet). Participants must be in good physical condition. Pack a lunch and be prepared for cold windy conditions.

We will meet at Lake Ranger Station at 8:30 am and return at 2:00 pm.

Autumn Day Hiking in Yellowstone



September 4-6 (#903)

Limit: 13

Location: Mammoth Hot Springs

Instructors: Michael Bartley &

Marla Covey, M.S.

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

Join us as we explore Yellowstone and enjoy fall colors and bugling elk. Day hiking in the park provides a unique opportunity to experience the wild places of Yellowstone without the burden of a heavy pack. In this course, we will explore Yellowstone's varied landscapes as the park inhabitants prepare for winter. Formal and informal discussions will focus on the natural and cultural history of Yellowstone and wilderness travel. Be prepared to hike 5 to 10 miles each day with elevation gains up to 1,500 feet. Participants must be in good physical condition.

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

Fire Management & Ecology of Yellowstone Forests

September 7-9 (#904) *Limit: 13*
 Location: Mammoth Hot Springs
 Instructors: Roy Renkin, M.S.,
 Jim Kitchen M.P.A.
 \$180 (Member's fee \$170) *NEW*

Explore the history, ecology, policy and management of fire in the forest communities of Yellowstone National Park. A half-day lecture/slide show will be followed by one and a half days of touring recent/historic burns, sampling postburn forest regeneration in contrasting sites, dating previous fire events, and visiting ongoing research sites. Fieldwork will not be strenuous but may occur in inclement weather. Appropriate clothing and footwear are essential.

The course will begin at 8:00 am on the first day and end at 5:00 pm on the last day. Rooms have been set aside at Mammoth—contact registrar for reservation information.

Shoshone Lake Sea Kayaking

September 7-10 (#905)
 (see description on pg 25)

Autumn Backpacking and Base Camp—Fly-Fishing the Black Canyon of the Yellowstone

September 8-10 (#906) *Limit: 8*
 Location: Black Canyon of the Yellowstone
 Instructors: Michael Bartley &
 Marla Covey, M.S.
 \$220 (Member's fee \$210) *NEW*

Are you an experienced angler seeking to combine your love of fishing with an exceptional wilderness experience? If so, then join us and fish the Yellowstone River in solitude as it flows through the majestic Black Canyon. You will learn the basics of "Leave No Trace" backpacking in grizzly bear country, and explore the basics of stream ecology in the Yellowstone fisheries. We will guide you to, and leave you alone to enjoy, great fishing.

On the first day, we will start at the Blacktail trailhead at 9:00 am and hike 5-6 miles, descending 1,000 feet in elevation. We will base camp along the Yellowstone River for two nights, then return to the Blacktail trailhead at 3:00 pm on the last day. Participants must secure their own campsite or lodging before and after the course. Please see general backpacking information on pg 8. The nearest campgrounds are in Mammoth Hot Springs and Gardiner and the nearest lodging is in the Mammoth Hot Springs area.

Horsepacking: Autumn Sights and Sounds

September 9-14 (#907) *Limit: 8*
 Location: Lamar Valley
 Instructors: Mike & Erin Thompson,
 Wilderness Pack Trips, Inc.
 \$1495 (Member's fee \$1485)

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

Wilderness Pack Trips, Inc. is a top-quality business that consistently receives the highest ratings from the National Park Service. This trip includes interpretive activities, all group equipment, and five-course meals prepared by the outfitter.

We will meet at the Lamar River trailhead at 9:00 am on the first day and return to the same trailhead around 4:00 pm on the last day. Please see general horsepacking information on pg 8.

Fly-Fishing in the Fall

September 14-16 (#908) *Limit: 9*
 Location: Mammoth Hot Springs
 Instructor: Richard Parks
 \$230 (Member's fee \$220)

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

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

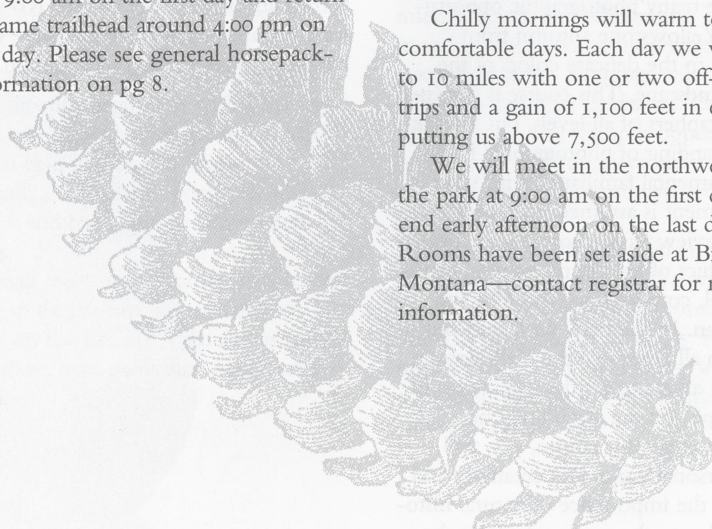
Hiking in Yellowstone's Northwest Corner

September 14-16 (#909) *Limit: 13*
 Location: Northwest Corner
 Instructor: Leslie Stoltz
 \$170 (Member's fee \$160) *NEW*

Step into one of the last regions to be added to Yellowstone National Park. Discover the little known ridges of petrified trees, the early morning activity of fall wildlife and quiet beauty beyond the road where the headwaters of the Gallatin River flow. Along the trail we will discuss sights and sounds as well as cultural history.

Chilly mornings will warm to very comfortable days. Each day we will hike 5 to 10 miles with one or two off-trail side trips and a gain of 1,100 feet in elevation, putting us above 7,500 feet.

We will meet in the northwest area of the park at 9:00 am on the first day and end early afternoon on the last day. Rooms have been set aside at Big Sky, Montana—contact registrar for reservation information.



Horsepacking: Trails Less Traveled

September 16-19 (#910)

Limit: 6

Location: Lamar Valley

Instructors: Mike & Erin Thompson,

Wilderness Pack Trips, Inc.

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

NEW

Do you ever wonder what it would be like to travel off the beaten path in Yellowstone's backcountry? Would you like to develop the skills and confidence necessary to safely visit these places? If so, please join us. The goal of this course is to explore some remote trails in the Lamar Valley. Highlights will include map and compass reading, route finding, and plenty of horseback riding. Participants will also be directly involved in camp set-up, stock usage, and incorporating low impact methods. Previous backcountry riding experience is strongly recommended.

Wilderness Pack Trips, Inc. is a top-quality business that consistently receives the highest ratings from the National Park Service. This trip includes interpretive activities, all group equipment, and five-course meals prepared by the outfitter.

We will meet at the Lamar River trailhead at 9:00 am on the first day and return to the same trailhead around 4:00 pm on the last day. Please see general horsepacking information on pg 8.

Autumn Photography in Yellowstone

September 22-25 (#911)

Limit: 11

Location: Mammoth Hot Springs

Instructor: Sandra Nykerk

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

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

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

Autumn Nature Photography with John Shaw

September 27-30 (#912)

Limit: 18

Location: Mammoth Hot Springs

Instructor: John Shaw

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

NEW

Bull elk challenging their rivals, landscapes at their peak of color, herds of bison enveloped in steam rising from geyser fields—we will explore these and other photographic opportunities with John Shaw, one of the best contemporary nature photographers and teachers. This workshop is designed for advanced nature photographers with a working understanding of photography and a good understanding of their equipment. Field techniques will be emphasized, and we will discuss marketing your work, ethics of field photography, and use of contemporary digital technology. Extended field sessions will be supplemented with short classroom sessions. We'll adjust our schedule for weather. Be prepared for long days as we rise early for pre-dawn excursions and work until sunset.

We will meet in the Mammoth area at 1:00 pm on the first day and end at around 12 noon on the last day. A detailed itinerary and a list of recommended supplies and equipment will be forwarded to each participant prior to the course. Rooms have been set aside at Mammoth—contact registrar for reservation information.

Beavers of North America

October 5-7 (#1001)

Limit: 13

Location: Mammoth Hot Springs

Instructors: Douglas Smith, Ph.D. &

Christine Smith

\$145 (Member's fee \$135)

NEW

Beavers modify their environment to an extent matched only by humans. Join us as we explore the unique aspects of beaver ecology, behavior, and habitat relationships. Classroom sessions will involve a discussion of beaver ecology, behavior, morphology, and worldwide population distribution. We will also take a field trip to an active beaver colony. Be prepared to hike in swampy terrain.

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

Wilderness First Responder

November 8-17 (#1101)

Limit: 24

Location: Lamar Buffalo Ranch

Instructor: Wilderness Medicine Institute Staff

\$470 (Member's fee \$460)

This 80-hour course is required by many outdoor employers and recommended for anyone who works or plays in the backcountry. Through a combination of classroom sessions and field exercises, participants will learn how to deal with emergencies in remote settings. Some of the topics to be covered are: wilderness wound management, improvised splinting techniques, environmental emergencies, patient monitoring, and long-term care. Emphasis is placed on principles of medical care rather than memorization of information.

Certifications upon successful completion include Wilderness First Responder and American Heart Association CPR.

Participants must be 18 years old and physically and mentally able to participate in classes that occur in all types of weather and terrain.

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

Wilderness First Aid

December 1-2 (#1201) *Limit: 24*

Location: Lamar Buffalo Ranch

Instructor: Wilderness Medicine Institute Staff
\$130 (Member's fee \$120)

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

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

Family Winter Adventure at the Buffalo Ranch

December 27-29 (#1202) *Limit: 20*

Location: Lamar Buffalo Ranch

Instructors: Bobbi Geise &

Lidie Whittier Robbins, M.Ed.

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

Child-\$100 (Member's fee \$90) *NEW*

Strap on your skis or snowshoes and come explore Yellowstone's winter wilderness with your family. We'll search for signs of wildlife, study the science of snow, and discover how plants and animals survive Yellowstone winters. A variety of activities will encourage hands-on exploration and discovery. All abilities are welcome, but be prepared to spend several hours at a time on the trail.

We will meet at the Lamar Buffalo Ranch at 10:00 am on the first day and end at 1:00 pm on the last day. Children must be at least 8 years of age. Participants must provide their own ski or snowshoe equipment—see pg 9.



Snowshoeing in Yellowstone

January 11-14, 2002 (#101) *Limit: 13*

Location: Lamar Buffalo Ranch

Instructor: Scott Wood

\$185 (Member's fee \$175)

Discover Yellowstone's winter backcountry via snowshoes, which provide a simple yet efficient means of traveling on snow. We may see elk and wolves on our treks, or hear wolves howl. Bring cameras, warm breathable clothing and a lot of desire, determination, and energy for a memorable experience.

We will discuss the value of wilderness and of adventure pursuits, group/team work, communications, and safety issues. We will cover the topic of avalanches in a lecture with video focusing on how to recognize avalanche terrain, what to do if caught, and avalanche rescue. The hikes are not difficult, beginning with a flat day trip and ending with a longer uphill trip. Elevation gain is about 700 feet. Participants should be in good physical condition and have appropriate winter clothing.

We will meet in the Lamar Ranch area at 7:00 pm on the first day and end at 3:00 pm on the last day. Participants must provide their own snowshoe equipment—see pg 9.

Snow Tracking Ecology

January 18-20, 2002 (#102) *Limit: 13*

January 18-22, 2002 (#103) *Limit: 13*

Location: Lamar Buffalo Ranch

Credit pending: U, 1 semester hour,

U of MT, MSU

Instructor: James Halppenny, Ph.D.

(#102) \$190 (Member's fee \$180)

(#103) \$290 (Member's fee \$280) *NEW*

Experience a learning-and-research, hands-on practicum and study the ecology of animals by following their trails in snow. This three-day course can be extended to include an optional two-day research project. Lectures cover gait patterns, snow properties, snow tracking, melted-out footprints, snow load, snow pillars, snow casting, snow tracking index, measuring, trail interpretation, and ethograms. Participants must be able to ski or snowshoe for afternoon field trips. Evenings will be spent analyzing the day's fieldwork. During the optional two-day research opportunity, participants will complete individual projects and report at a group symposium the final afternoon.

Participants may take either the three-day or five-day program. We will meet at Lamar at 8:30 am the first morning and finish by 5:00 on days 3 and 5. Participants must provide their own ski or snowshoe equipment—see pg 9. Fee includes \$20 for course materials.

Winter on a Sliver

January 25-27, 2002 (#104)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: James Halpenny, Ph.D.

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

Glide across Yellowstone on slivers of wood and observe wildlife living on slivers of energy in winter. Two days on skis with North America's foremost animal tracker and winter ecologist will allow you to see winter wildlife and understand what it takes to survive in this environment. We'll dig snow pits, and test the snow to see how it protects and hinders animals. Nights will be spent indoors watching slide shows and enjoying a visit by the bard of the north, Robert Service. The adventurous may spend the night in a snow shelter. Relax, enjoy, and learn about winter in Yellowstone. Cross-country skis and advanced beginner level of ski experience required for this class; snowshoes not acceptable.

We will meet in the Lamar Ranch area at 7:00 pm on the first day and end about 5:00 pm on the last day. Participants must provide their own ski equipment—see pg 9.

A Look Through Winter's Window

January 31-February 3, 2002 (#105) Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Leslie Stoltz

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

NEW

Expand your experience of Yellowstone by embracing the winter months and the magic of a landscape blanketed with snow. We will explore backcountry trails in the Lamar area and take a snowcoach shuttle to the park's interior. Discussions will cover winter ecology, tracks, natural history and understanding snow. Two indoor sessions will expand on these ideas and address winter equipment, safety and comfort.

Morning starts will vary depending on weather. We'll be out on the trail 4 to 5 hours each day, with stops, skiing at 7,000 feet with an elevation gain or loss of 800 to 1,000 feet. Previous cross-country ski experience is helpful. Bring a daypack, trail lunches, water bottle, sun and weather protection, and appropriate ski equipment for on- and off-trail activity.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end early afternoon on the last day. Participants must provide their own ski and/or snowshoe equipment—see pg 9. Fee includes \$15 for a snowcoach shuttle into the interior.

Exploring Yellowstone on Snowshoes

February 12-14, 2002 (#201)

Limit: 13

Location: Lamar Buffalo Ranch

Instructor: Dale Sexton

\$170 (Member's fee \$160)

For those who do not ski, snowshoeing provides an excellent, low-impact, yet rigorous mode of travel for exploring the snow-covered landscape of Yellowstone. Course discussion will include winter ecology, preparation for winter excursions, avalanche awareness, map reading, and route finding. Enjoy winter in Yellowstone! Be prepared to travel 2 to 8 miles a day on snowshoes, depending on conditions. Short morning presentations will precede each day's excursion.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 3:00 pm on the last day. Participants must provide their own snowshoe equipment—see pg 9.

Exploring Yellowstone's Winter World on Skis

February 15-17, 2002 (#202)

Limit: 13

Location: Lamar Buffalo Ranch

Instructors: Wayne Phillips & Leslie Stoltz

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

Enjoy the rhythmic movement of cross-country skiing and explore the magical winter world of Yellowstone National Park. Practice and improve your skiing skills while observing clues to the geologic past and insights to the ecology of the present.

Days will start with indoor sessions introducing the basics of the winter environment and its effect on plants and animals, map and compass practice, and snow and avalanche dynamics. The later part of the morning through the remainder of the day we will be outside skiing and exploring. Be prepared for 3 to 5 hours of skiing daily with moderate elevation gain.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end at 3:00 pm on the last day. Participants must provide their own daypack, field lunches/snacks, outdoor clothing and ski equipment—see pg 9.



Through this course, you will develop personal vision and creativity and understand the importance of natural history knowledge in the winter photographer. Lab film processing during the course for on-site feedback will be available.

Wolf Watching in Yellowstone

February 22-24, 2002 (#203) *Limit: 13*
 Location: Lamar Buffalo Ranch
 Instructor: Norman A. Bishop
 \$170 (Member's fee \$160)

Yellowstone National Park may be the best place in the world to watch wolves. Bring your binoculars, scope and tripod, warm clothing for subzero mornings, and join the crowd. We will consider the scientific and social reasons why some Americans have alternately reviled and revered wolves, and examine the process of justifying wolf restoration as an experimental population under the Endangered Species Act. Find out what the wolves eat, how they kill their prey, which does the killing, and what effect the wolves have on other animals, including livestock outside the park. We will watch for wolves at dawn and dusk from the roadside, and discuss them while watching videos and slides in the classroom at midday. Depending upon conditions and the wishes of participants, we may ski in wolf country and look for tracks. Cross-country skis and basic outdoor clothing required. Gaiters are a big help.

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

Winter Tales

March 13-15, 2002 (#301) *Limit: 13*
 Location: Lamar Buffalo Ranch
 Instructor: Jim Garry, M.S.
 \$170 (Member's fee \$160) **NEW**

Winter has laid long on the Lamar, and its tales are waiting for us. During the day we will search, on snowshoes, for obvious tales observed in animal behavior as the park's year-round inhabitants struggle toward spring. At night we'll share winter stories: tales of Old Coyote, of Raven, of Bear, and others.

March is still winter in Yellowstone. Be prepared for cold weather. Our field time will involve both sitting and watching animals and hikes on snowshoes.

We will meet in the Lamar Ranch area at 9:00 am on the first day and end mid-afternoon on the last day. Participants must provide their own snowshoe equipment—see page 9.

Yellowstone's Wolves

March 15-17, 2002 (#302) *Limit: 13*
 Location: Lamar Buffalo Ranch
 Instructor: James Halfpenny, Ph.D.
 \$150 (Member's fee \$140)

Listen closely—wolves howl in the Lamar Valley as they travel their established territories preying on elk and raising their pups. Join us for the latest news of the wolf reintroduction and an overview of wolf ecology. Lectures will cover basic taxonomy, biology, ecology, and management. Field sessions will cover identifying wolf tracks (versus dog, fox, and coyote), understanding wolf gaits, reading stories in their trails, and interpreting wolf ecology in the field. With luck we may explore a kill site. Early mornings at sunrise and evenings (optional), we'll try to view wolves from the road. On Friday and Saturday, there will be evening lectures.

We will meet in the Lamar Ranch area at 6:00 pm on the first day for an informal potluck supper followed by a lecture at 7:30 pm, and we will end about 4:00 pm on the last day. Bring field lunches and lots of trail food. Fee includes \$15 for course materials.

Wildlife Observation—Winter

March 22-25, 2002 (#303) *Limit: 13*
 Location: Lamar Buffalo Ranch
 Instructor: Gene Ball
 \$170 (Member's fee \$160)

Winter offers its own unique wildlife viewing opportunities. The major goal and activity of this introductory course is field observation. Methods of unobtrusive observation and the ethics of interaction with wildlife will be the central themes. The opening session will cover use of binoculars, spotting scopes, and tripods for quality wildlife observation. Discussion will focus on various wildlife topics, issues, and controversies. Our schedule will be flexible to conform to the movements of wildlife. Be prepared for morning and evening field trips, optional hiking, snowshoe, or ski outings.

We will meet in the Lamar Ranch area at 3:00 pm on the first day and end at 1:00 pm on the last day.



Elaine Anderson, Ph.D.

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

Robert Anderson, Ph.D.

(Aquatic Insects of Yellowstone; Beetles, Bugs & Damselflies) 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.

Roger Anderson, M.A.

(Favorite Hike Series—Wanderings Through Wonderland) is co-author of *A Ranger's Guide to Yellowstone Day Hikes* and *Yellowstone: The Story Behind the Scenery*, has been a ranger with the National Park Service in four different parks since 1980, and currently instructs field courses on Yellowstone resources and issues for Montana State University and Western Montana College.

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

(Favorite Hike Series—Day Hiking a Trail Time Forgot; Exploring Yellowstone by Map & Compass; Uncovering Secrets of the Lower Geyser Basin) has worked for 25 seasons as an interpretive ranger in Yellowstone National Park and is the author of *Exploring the Yellowstone Backcountry*. He has hiked, skied, and canoed the Yellowstone backcountry for the past 32 years.

Gene Ball

(Wildlife Watching in Grizzly Country; Wildlife Observation—Spring; Wildlife Observation—Winter) was director of the Yellowstone Association and Institute from 1985–88. He now lives in Meeteetse, Wyoming, does free-lance projects for a variety of organizations throughout the West, and serves on the advisory council of the Yellowstone Grizzly Foundation.

Michael Bartley

(Backpacking Courses; Day Hiking Yellowstone; Autumn Day Hiking in Yellowstone) is a former field manager of the Yellowstone Association Institute. He is certified as a Master of the national Leave No Trace (LNT) program and has taught many summer and winter backcountry courses for the Institute. He also serves as an instructor for the National Outdoor Leadership School.

Norman A. Bishop

(Wolf Watching in Yellowstone) retired from Yellowstone in 1997. From 1985 to 1997, he gave 400 talks on wolves and their recovery. He has led more than 15 wolf seminars for the Yellowstone Association Institute and for the Teton Science School. For his wolf work, Norm received the National Parks and Conservation Association's 1988 Stephen T. Mather Award, Greater Yellowstone Coalition's 1991 Stewardship Award, Wolf Education and Research Center's 1996 Alpha Award, and a Department of Interior Meritorious Service Award.

John C. Carlson, Ph.D. candidate

(Where The Birds Are In Yellowstone) attends Montana State University in Bozeman and is president of the Sacajawea Audubon Society. He was born and raised in Montana and has been birding since he was 10. He has conducted bird research from Antarctica to Greenland, including surveys in Yellowstone. He has also taught beginning birding and bird feeding classes at the Museum of the Rockies. John is currently investigating the population dynamics of Adelie penguins on the Antarctic Peninsula.

Tom Carter, J.D.

(Favorite Hike Series—Day Hike in The Absarokas—A Classic Yellowstone Adventure) is a former Yellowstone tour guide and author of three interpretive guidebooks: *Day Hiking Yellowstone* (1978, 1985, 1990 & 1998); *Day Hiking Grand Teton National Park* (1993 & 2000); and *Day Hiking the Wind River Range* (1997). He is credited with discovering 400-foot "Rapunzel Falls" in a remote part of the Absarokas and naming magnificent "Morning Falls." He is currently a consumer protection attorney in the Southwest Region of the Federal Trade Commission.

Eleanor Williams Clark, M.L.A.

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

Marla Covey, M.S.

(Backpacking Courses; Day Hiking Yellowstone) works as a personal trainer in Boise, Idaho. Marla is certified as a Master of the national Leave No Trace (LNT) program and as an Emergency Medical Technician. She is an instructor for the National Outdoor Leadership School and has taught backcountry courses for the Outdoor Adventure Program at Colorado State University.

Paul K. Doss, Ph.D.

(Interpreting The Geological Landscapes Of Yellowstone) is the supervisory geologist for Yellowstone National Park. He came to the Park Service after serving as Chairman of the Department of Geology at University of Southern Indiana. During his career in academia, Paul researched and taught in Indiana Dunes National Lakeshore, Acadia and Everglades National Parks. He has taught field geology, conducted research, and completed geologic mapping in the Rocky Mountain Region and the Yellowstone Plateau for nearly two decades.

Katy Duffy, M.S.

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

Jeanne M. Eder, M.A.

(Smoking Mountains—Indians & Yellowstone Park) is an enrolled member of the Dakota Sioux tribe from the Fort Peck Reservation in Montana. She has a master's degree in history from Montana State University and is a Ph.D. candidate at Washington State University. She works as multicultural coordinator at Western Montana College in Dillon.

William C. Edwards, Ph.D.

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

Terry Enk, Ph.D.

(Mountain Dwellers of the Yellowstone Ecosystem; Plant Eaters of Yellowstone) recently obtained his Ph.D. in wildlife biology at Montana State University. His doctoral research on bighorn sheep and mountain lions was featured on National Geographic Explorer. His interests lie in wildlife research, and he is currently conducting a study in mountain lion ecology in the Jackson Hole area.

Gary Ferguson

(Writing the Wild) has been a full-time free-lance writer for 19 years. He has written for numerous national magazines and is the author of 13 books on nature and science, including *The Yellowstone Wolves: The First Year*. His 1997 title *Through the Woods: A Journey Through America's Forests*, was a starred selection in Kirkus Review, as well as a winner of the prestigious Lowell Thomas Award. He is a frequent speaker and writing instructor at universities and workshops across the country.

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 22 years, emphasizing both the geology of the Yellowstone volcano and the dynamic nature of hydrothermal features.

David Fountain, Ph.D.

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

David Gaillard, M.E.S.

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

Jim Garry, M.S.

(Spring Wildlife on the Northern Range; Spring Returns to Yellowstone; Bears—Folklore & Biology; Bears: Bones, Signs & Stories; Family Days in the Lamar—The Wolves Come Home; Along the Yellowstone River with Lewis & Clark; The Bison of Yellowstone; Winter Tales) 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*.

Bobbi J. Geise

(Family Adventures at the Buffalo Ranch; Family Winter Adventures at the Buffalo Ranch) is executive director of Bridger Outdoor Science School in Bozeman, Montana, and President of Montana Environmental Education Association. Bobbi has a degree in wildlife biology and a secondary education teaching certificate in broadfield science. Her travels and experiences include investigating and enjoying animals, plants, and invertebrates across the globe.

Dorothee Gotz, Ph.D.

(Exploring Yellowstone's Microbes) is a research associate at Portland State University. She has worked with Dr. Wolfgang Zillig on viruses from thermal environments and has isolated many novel heat-loving (thermophiles) microbes from hot springs in New Zealand and the deep-sea.

Kerry A. Gunther, M.S.

(Grizzly & Black Bear Ecology & Management) is the bear management specialist for Yellowstone National Park. He has worked in grizzly bear and black bear research and management for the U.S. Forest Service, U.S. Fish and Wildlife Service, and the National Park Service, the last 18 years in Yellowstone National Park. He has published papers on bear management, grizzly bear-human interactions, bear inflicted human injuries, and grizzly bear predation on elk calves. He is the recipient of the 1997 Sigurd Olsen Environmental Achievement Award.

James Halfpenny, Ph.D.

(Mammal Tracking: Interpreting Tracks, Scat & Other Sign; Bears: Bones, Signs & Stories; The Evolution, Ecology & Future of the Wolf Family; The Lesser-Known Carnivores Of The Greater Yellowstone Ecosystem; Mammal Tracking; Snow Tracking Ecology; Winter on a Sliver; Yellowstone's Wolves) 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*.

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

Jim Kitchen, M.P.A.
(Fire Management & Ecology of Yellowstone Forests) is the prescribed fire specialist with Yellowstone National Park. Jim has been involved with fire operations for 20 years, predominately as a smoke-jumper, in prescribed fire and training. He has been involved in fire management and operations at Yellowstone since 1999. Jim holds a master's degree in public administration with federal land resource emphasis.

Dan Mahony, M.S.
(Yellowstone's Fishes: Beyond Angling) has managed Yellowstone fisheries for 16 years and currently serves as the park's senior fishery biologist. His long-term studies have included aquatic habitat inventories, population assessments, aquatic invertebrate distributions, and potential solutions to some of the park's existing aquatic habitat deficiencies. Additional expertise will be contributed to this course by the NPS Aquatic Resources Unit: Jeff Lutch, M.S., lead biological technician and stream ecology expert (electrofishing); and Brian Ertel, biological technician (gillnetting leader).

Mark Marschall
(Favorite Hike Series—Crest of the Absarokas) has been hiking in Yellowstone since 1973 and has been a National Park Service backcountry ranger in the park for 15 years. He wrote *Yellowstone Trails, A Hiking Guide*. He has traveled extensively in National Parks in South America and New Zealand. He is a photographer and video producer during the winter.

John W. Martin, M.S.
(Introduction to Yellowstone Birds; Advanced Birds of Yellowstone) is supervisory ecologist and chief of natural and cultural resources at U.S. Army Dugway Proving Ground, Utah. He has studied northern harrier ecology and habitat use, and is involved in long-term monitoring of Neotropical migratory songbirds and raptors. He has authored numerous articles on raptors and, most recently, accounts on Sage and Lark Sparrows for the Birds of North America project.

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

Deborah Jane Milton, Ph.D.
(Creating with the Elements) has facilitated creative expression in outdoor settings for 15 years. Formerly a psychotherapist, she left her office practice in order to explore creativity in response to the natural world that sustains us. She paints in a variety of media, writes, works in clay and stained glass, makes masks and dolls expressing the unconscious, and practices Ecstatic Body Postures, an anthropological discovery from preagricultural societies.

Roy Mink, Ph.D.
(Great Earth Odyssey) serves as director of the Idaho Water Resource Research Institute with the University of Idaho. In this position, he works on water quality studies in several Idaho watersheds. He also has extensive experience in geothermal systems, was formerly chief of the geothermal energy branch of the U.S. Department of Energy at Idaho Falls, and has worked on national and international geothermal projects.

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

Mike Murray
(Discover Your Sky—Observing Techniques for Backyard Astronomers) works as assistant director for the NASA Montana Space Grant Consortium at Montana State University. He has over 24 years experience in astronomy education at a variety of museums, and has written numerous articles about astronomy for newspapers, magazines, and professional journals. He also gives presentations and workshops for astronomy clubs, museums, and star parties. He is the founder of the Southwest Montana Astronomical Society and Past-President of the Rocky Mountain Planetarium Association.

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

Doug Ouren

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

Deborah Page

(Great Earth Odyssey) is a writer, teacher, and consultant. In over 19 years, she has taught regular elementary classes, special programs in gifted and talented education, elementary hands-on science, language arts, and enrichment science courses for the Junior Academy of the California Academy of Sciences, San Francisco. She has been a consultant, researcher, and writer with the Geothermal Education Office (GEO) since 1993. Currently, she is developing a teaching resource on geothermal energy sponsored by The Watercourse (Project WET) and GEO.

Richard Parks

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

Dorothy Hinshaw Patent, Ph.D.

(Creating with the Elements) is a full-time writer, co-author of a cookbook and two gardening books for adults, and more than 100 science and nature books for children. She has been helping others express themselves through the written word for more than a decade, including 9 years at the Yellowstone Association Institute. She has received the Eva Gordon Award (American Nature Study Society), Golden Kite Award (Society of Children's Book Writers), and other honors.

Debra A. Patla, M.S.

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

Brian Peck

(The Wolf's Return—Mythology to Recovery) is an experienced naturalist from Columbia Falls, Montana. After working 21 years as a Ranger/Naturalist in Colorado, he served as Grizzly Recovery Coordinator for the Great Bear Foundation and Wolf Recovery Coordinator for the National Audubon Society. He also tracked and studied wolves around Glacier National Park for the Wolf Ecology Project. Brian conducts natural history programs for Glacier Institute, World Wildlife Fund, National Parks and Conservation Association, and Elderhostel.

Charles Peterson, Ph.D.

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

Wayne Phillips

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

Harold Picton, Ph.D.

(Bears—Folklore & Biology; Plant Eaters of Yellowstone; The Bison of Yellowstone) is an 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.

Leslie J. Quinn, M.Ed.

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

Roy Renkin, M.S.

(Fire Management & Ecology of Yellowstone Forests) is a biologist with the Branch of Natural Resources in Yellowstone National Park. Roy has been involved with various aspects of forestry, fire, and wildlife management and research for the past 22 years. Published and current research focuses on fire behavior and ecology, and vegetation-ungulate interactions. Roy holds a master's degree in wildlife ecology.

Anna-Louise Reysenbach, Ph.D.

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

Lidie Whittier Robbins, M.Ed. (Family Adventures at the Buffalo Ranch; Family Winter Adventures at the Buffalo Ranch) is program director for the Bridger Outdoor Science School in Bozeman, Montana, coordinating and teaching natural science programs for children. She worked for seven years as a ranger-naturalist for the National Park Service, including three years in Yellowstone.

Toni K. Ruth, Ph.D. candidate (Cougars—Ghosts of the Rockies) is an Associate Conservation Ecologist with the Hornocker Wildlife Institute and the Wildlife Conservation Society. Both organizations are internationally recognized in large carnivore research and conservation. As leader of the Yellowstone cougar project, she is investigating the effects of wolf reintroduction on the cougar population. She has over 12 years of field experience working with large carnivores (primarily cougars) in a variety of habitats including Florida, Texas, New Mexico, and Montana.

Vincent L. Santucci (Fossils of Yellowstone) is a paleontologist specializing in National Park Service fossil resource management, research, and protection. His career has included paleontological surveys at Badlands, Grand Canyon, Petrified Forest, Yellowstone, and Zion National Parks. He served as an instructor at Slippery Rock University and the University of Pittsburgh in Pennsylvania.

Julie A. Scanlin (Great Earth Odyssey) is an environmental educator with the Idaho Water Resources Research Institute at the University of Idaho. She specializes in water education programs and is the state coordinator for Project WET (Water Education for Teachers). Julie is currently working with the Geothermal Education Office to produce and distribute a geothermal resources curriculum.

Bill Schneider (Favorite Hike Series—Pebble Creek in a Day) has recently retired after 21 years working at Falcon Publishing, a premier publisher of recreational guidebooks. Bill authored several of those books, including *Hiking Yellowstone*, *Hiking the Beartooths*, *Hiking Montana*, *Hiking Grand Teton* and *Bear Aware*. He taught no-trace backpacking and hiking and camping in bear country for the Yellowstone Association Institute for 12 years, and he has hiked most trails in Yellowstone.

Dale Sexton (Exploring Yellowstone on Snowshoes) is a lifelong resident of Livingston, Montana and has extensive backcountry experience in and around the Greater Yellowstone area. He has been a fly-fishing guide for over 15 years, guiding extensively in the less traveled areas of Yellowstone. He is also an experienced cross-country skiing instructor and avid snowshoer. He owns and operates Timber Trails, an outdoor specialty store in Livingston.

John Shaw (Autumn Nature Photography with John Shaw) has been hailed by American Photographer as "one of the best nature photographers around." He is the author of six books on nature photography and his beautiful images are regularly published in magazines, calendars, coffee table books, and educational texts. But above all else, he is considered to be one of the absolute best teachers of nature photography, both in the field and in a classroom setting. He conducts workshops and lectures for audiences throughout the US and Canada.

Christine Smith (Wolves of the World; Beavers of North America) is a high school wildlife and biology teacher from Bozeman, Montana. She has lived or worked in Yellowstone National Park since 1994 and has traveled widely across the park in both summer and winter. She teaches both a wolf and beaver unit at Bozeman High and has worked with the Yellowstone wolf project since 1999. Christine is an avid kayaker, making her a frequent visitor to beaver habitat.

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

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

Leslie Stoltz (A Look Through Winter's Window; Exploring Yellowstone's Winter World on Skis) is a naturalist and guide in Big Sky, Montana. She leads natural history trips for Elderhostel, World Wildlife Fund, NPCA, Smithsonian, and teaches bird ecology at Lone Mountain Ranch. She spends most of the year sharing knowledge and outdoor experiences with people young and old. She is a Professional Ski Instructors of America level III guide and instructor and has been a National Park Service employee in both Yellowstone and Glacier.

Don Streubel, D.A.

(Mammals Great & Small) holds a doctor of arts degree in biology and worked for 25 years at Idaho State University. He received the distinguished teacher award in 1997 at ISU and is actively involved in the National Association of Biology Teachers. He is the author of *Small Mammals of the Yellowstone Ecosystem* and was director of the Yellowstone Association Institute from 1989–1991. Don currently serves on the Yellowstone Association board of directors.

Mike and Erin Thompson

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

Dave Thurlow

(Weather Cycles in the Big Sky) is a weather education consultant from Jackson, New Hampshire. He is the writer and host of The Weather Notebook, heard nationwide on public radio stations. He also consults for museums and nature centers and is working on a public television documentary about wind. Trained as a meteorologist, he has also spent many years as a naturalist for the Massachusetts Audubon Society and the Appalachian Mountain Club. He has written articles for several outdoor publications, including *Weatherwise* magazine.

Rhea Topping

(Fly-Fishing) runs fly fishing schools at her pond in Virginia, is the only woman instructor at the famous Joan Wulff Schools in New York, has instructed with the Mel Krieger International Schools in Argentina, Spain, and the United States, and is one of three women out of 60 Master Certified Fly Casting Instructors worldwide. As the owner of Mayfly Adventures, she also escorts fly-fishing trips around the globe. An active member/national director of the Federation of Fly Fishers, she was named Woman of the Year in 1999.

Nathan Varley, M.S.

(Wolves—Reality & Myth; Beartooth Mountain Llama Trek) is a naturalist, writer, and guide specializing in Yellowstone ecology. He grew up in the park and has lived most of his life in the Yellowstone area. He has studied many wildlife species including gray wolves, mountain goats, grizzly bears, river otters, coyotes, moose, and pine marten. For the past 8 years he has been active with various wildlife projects including field courses, photography, film production, and scientific research.

Tom Watson, M.A.

(Day Hiking in Wonderland; Hiking Through Time—Day Hikes into the Geological Past) has spent the last 21 summers studying geology and ecology in the Greater Yellowstone ecosystem, as a Yellowstone Association Institute instructor, as presenter for the National Wildlife Federation Summit programs, and as a guide for Off the Beaten Path excursions. During the school year he teaches biology and geology.

Sandra Weber

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

Jennifer Whipple, M.A.

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

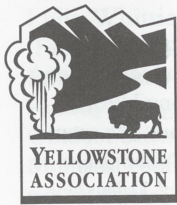
Lee H. Whittlesey, J.D.

(History of Yellowstone Photographers; Yellowstone's Southern Roadside History) is historical archivist and acting historian for Yellowstone National Park. He spent 15 years writing *Wonderland Nomenclature: A History of the Place Names of Yellowstone National Park*, and its sister version, *Yellowstone Place Names*. Whittlesey is also the author of *Death in Yellowstone: Accidents and Foolhardiness in the World's First National Park*; *Everts: Lost in Yellowstone*; and *A Yellowstone Album: A Photographic Celebration of the First National Park*, and most recently *A Guide to Yellowstone Waterfalls and Their Discovery*. He is widely published in the early history of interpretation and transportation in the park, and has a law degree from the University of Oklahoma.

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

Scott Wood, M.A., M.Ph.

(Snowshoeing in Yellowstone) is the recreation education instructor at Rick's College in Rexburg, Idaho. He has worked 13 years at Rick's College teaching recreation and 11 years as a Nordic ski instructor and backcountry ski guide. He has done research in outdoor leadership and has a great interest in avalanche studies, having taken three avalanche courses.



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.

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

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

Would you like to join us? Thousands of people are now part of the Yellowstone Association's efforts to educate others about the value of Yellowstone in an increasingly crowded world. In addition to helping Yellowstone, members receive an informative newsletter throughout the year, and discounts on Institute classes and Association products. To become a member, fill out the Registration/Membership form on pg 45.

The Benefits of Membership in The Yellowstone Association

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

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

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

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

[Note: Refund Policy on Page 6]

Please duplicate this form for multiple registration if necessary.

Name _____

☐ Male ☐ Female ☐ Check here if you're new to the Institute.
Please list names and ages of children for family classes: _____

Address _____

City _____

State _____

Work Telephone _____

Home Telephone _____

Zip _____

E-mail _____

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

Address _____

Telephone _____

How did you find out about the Yellowstone Association Institute? _____

☐ Check here if you are a current member of the Yellowstone Association or are joining now. (See pg 44)

Course Title and Number _____

Dates _____

Tuition _____

Lodging:

- ☐ I want to stay at the Institute cabins at Lamar the following nights at \$20/night. Dates: _____
- ☐ My class does not meet at the Lamar facility. See course descriptions for recommended lodging or contact the registrar.
- ☐ I will make my own lodging or camping arrangements.

Total tuition fee(s) \$ _____

Cabin fee(s) at \$20 per person per night _____

Membership (optional) _____

Fill out membership information (see right)

Total Enclosed \$ _____

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☐ Renewing ☐ Joining for the first time

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

Annual Dues:

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| ☐ Associate | \$ 30. | ☐ Patron | \$ 250. |
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| ☐ Sustaining | \$ 100. | ☐ Benefactor | \$ 1,000. |

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Release and Assumption of Risk (Please return original, signed Release)

I am aware that during the courses or activities that I am participating in under the arrangements of the YELLOWSTONE ASSOCIATION and its agents or associates, certain risks and dangers may occur, including but not limited to the hazards of traveling in rough terrain, water, and thermal areas; accident or illness in areas remote from medical facilities; the forces of nature; and travel by automobile, bus, air or other conveyance. In consideration of and as part payment for the right to participate in such courses or other activities, I have and do hereby assume the risks and all legal responsibility for injury to myself or loss of my property resulting from participation in these courses or other activities, and do hereby hold the YELLOWSTONE ASSOCIATION harmless from any and all liability, actions, causes of action, debts, claims, and demands which I now have or which may arise in connection with my participation in these courses or other activities. The terms hereof shall serve as release and assumption of risk for my heirs, personal representatives, executors, administrators, and for all members of my family. I affirm that my general health is good and that I am not under a doctor's care for any condition which will endanger my health or the health of other participants. In case of injury and/or illness, I will bear the cost of any evacuation procedures such as ambulance, helicopter, rescue team, and professional medical care. I understand that I must provide my own health and accident insurance. My participation in the Yellowstone Association Institute course(s) and attendant activities, including photographs for future publicity in which I may appear, is entirely voluntary.

Date _____

Signature _____

Date _____

Signature _____

(Signatures for all participants required. If under 21 years of age, parent or guardian must sign—give age(s).)

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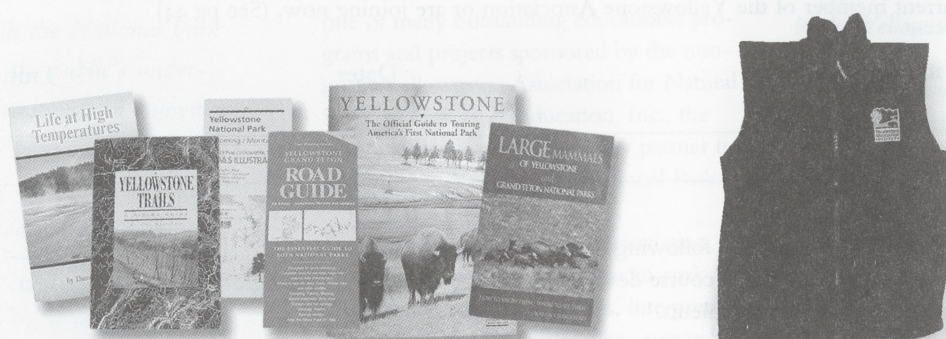
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The Park Store

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



Books, Maps and Videos

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

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



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



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

Members of the Yellowstone Association receive a 15% discount.

Proceeds support the Institute program at Yellowstone.



Yellowstone Association Institute

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