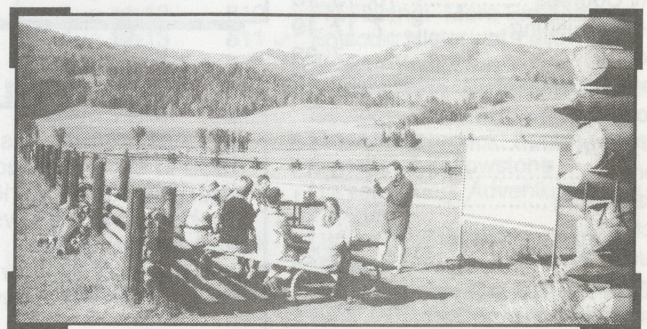
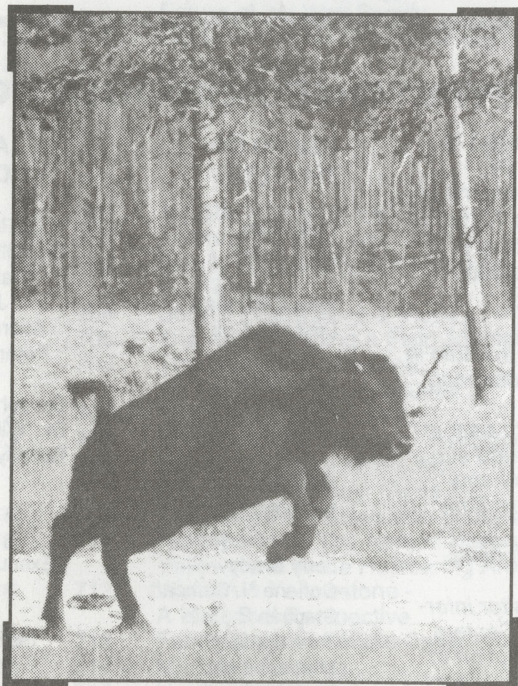


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The Yellowstone Institute



1995 FIELD COURSES - NATURE STUDY VACATIONS



The
Twentieth Anniversary
of the
Yellowstone Institute



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Yellowstone Institute

Mammoth Office
(307)344-2294

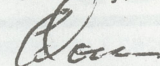
June-Aug at Lamar
(307)344-7749

*Cover photos by Pam Gontz
and Don Nelson
Catalog layout by Pam Gontz*

Dear Participant,

Welcome to the Yellowstone Institute's **Twentieth Season!** When you look over our course selection it becomes clear that the Institute thrives on diversity: diversity of courses, diversity of instructors, and diversity of students. Just as an ecosystem's health is a reflection of its diversity, so it is with the Institute. At the two-decade mark it's good to reflect on how we got here and where we are going. We are indebted to all those people who have been a part of the Institute's evolution and success, and to those whom we have yet to meet. In a sense the Institute is a living entity made up of years of interaction between every student, every instructor, and the natural beauty and wildness of Yellowstone. Twenty years . . . it's been a privilege.

Sincerely,


Don Nelson, Director

THE YELLOWSTONE ASSOCIATION

The Association was founded in 1933 to support educational, scientific, and historic programs for the benefit of Yellowstone National Park and its visitors. Among the Association's past and present projects are the following:

- *Founded the Yellowstone Institute in 1976 and serves as its sponsoring organization.*
- *Donated research library to park in 1967 and provides continued support through purchase of books and periodicals and hiring of part-time librarians.*
- *Publishes books and pamphlets pertaining to Yellowstone.*
- *Assists naturalists with visitor information services at Visitor Centers.*
- *Aids naturalists with distribution of schedules of programs for visitors.*
- *Administers grants and gifts for designated projects in the park.*
- *Helps fund seasonal training for naturalists.*
- *Funded Yellowstone's first braille trail.*
- *Donated computer equipment to the naturalist division for use in preparing the park newspaper and schedules of ranger-led activities.*

The Yellowstone Association for Natural Science, History and Education, Inc. is a non-profit, tax-exempt organization.

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Animal photos in this catalog were taken with telephoto lenses from safe distances. Some photos were cropped and enlarged for a "full-frame" look.

CALENDAR: Summer/Fall 1995 - Winter 1995/1996

MAY-JUNE

- May 27-29 601 Camping & Birding
- May 30-Jun 2 602 ✓ Mammal Tracking
- May 30-Jun 2 603 Wildlife Observation - Spring
- June 9-12 604 Grizzly Bear Ecology & Management
- June 10-12 605 ✓ Yellowstone Birds of Prey
- June 13-15 606 ✓ Bears: Folklore & Biology
- June 13-17 607 ✓ Mammals Great & Small
- * June 16-18 608 Birding Yellowstone
- June 16-18 609 Fly Fishing the West Side
- June 16-18 610 ✓ Wild Edible Plants & Medicinal Herbs
- June 19-23 611 ✓ Bears: Bones, Signs & Stories
- June 19-23 612 ✓ Birds of Yellowstone
- June 23 613 Nature Detective Workshop - Yellowstone Animals (Ages 5-6)
- * June 23-25 614 Learning Birds by Sound
- June 24-26 615 ✓ The Evolution, Ecology, & Future of the Wolf Family
- June 26-30 616 ✓ Lakes of Yellowstone by Canoe
- June 27-29 617 Issues & Ethics
- June 28-30 618 ✓ Butterflies of Greater Yellowstone

JULY

- July 1-2 701 ✓ Aquatic Insects of Yellowstone
- July 3-5 702 ✓ Interpreting Ylstrn with "Ranger Ted"
- July 5-8 703 Family Horsepack: West Slope of the Tetons
- July 4-6 704 Bats of Yellowstone & Vicinity
- July 6-9 705 The Art of Keeping a Field Journal
- July 8-9 706 The 24-Hour Experience: An Environmental Encounter
- July 10-12 707 ✓ Fire, Ice & Fossil Forests
- July 10-13 708 Photographing Nature in Ylstrn Country
- July 14 709 Nature Detective Workshop - Geysers & Geology (Ages 7-8)
- July 14-16 710 Exploring the Yellowstone Ecosystem
- July 14-18 711 Horsepacking: The Natural History of Yellowstone in the Hellroaring Area
- * July 15-16 712 Women & Yellowstone - A Historical Perspective
- July 17-19 713 Family Days at Pebble Creek
- July 17-20 714 ✓ Mammal Tracking
- July 18-20 715 ✓ Headwater Watershed Ecology
- July 19-23 716 Horsepacking: Our Wonderland Heritage
- July 21-22 717 ✓ Wildflowers of Yellowstone
- July 21-23 718 ✓ Geysers, Mudpots, & Hot Springs
- July 21-23 719 Yellowstone Place Names: The Nomenclature of Wonderland
- July 23-27 720 ✓ Wildflowers Llama Trek
- July 23-27 721 Horsepacking: A Land Ethic in the Bechler River Cascade Corner
- July 24-26 722 The Wolf's Return - Mythology to Recovery
- July 24-28 723 ✓ Hot Rocks, Hot Waters & Great Shakes
- July 25-27 724 Backpacking in Grizzly County
- July 28-30 725 ✓ Alpine Wildflower Walks
- July 28-Aug 1 726 Horsepacking: The Nez Perce Trail - Mirror Plateau
- July 29-Aug 2 727 Observing Ylstrn with the Artist's Eye
- July 31-Aug 2 728 Yellowstone's Wayside History
- July 31-Aug 2 729 ✓ Interpreting Ylstrn with "Ranger Ted"
- July 31-Aug 4 730 Backpacking the Beartooths: The "Leave No Trace Way"

AUGUST

- Aug 2-6 801 Horsepacking: Trapper Trails through the Thoroughfare
- Aug 4 802 Nature Detective Workshop - Water Bugs & Butterflies (Ages 9-10)
- Aug 4-6 803 Yellowstone Before Tourists: Prehistoric People
- Aug 4-6 804 Fly Fishing: Less Experienced
- Aug 6-10 805 Horsepacking: Washburn Expedition- Yellowstone & Heart Lakes
- Aug 7-9 806 ✓ Yellowstone Streams through the Eyes of Trout
- Aug 7-11 807 Backpacking Yellowstone: Along the Buffalo Plateau (1st of a Series)
- Aug 7-11 808 ✓ Carnivores of the Greater Yellowstone Ecosystem
- Aug 8-10 809 Family Days in the Thermal Basins
- Aug 11-13 810 Fly Fishing: More Experienced
- * Aug 12-13 811 ✓ Episodic History of Yellowstone Lake
- Aug 14-18 812 Finding Your Own Voice: A Wilderness Writing Experience
- Aug 14-18 813 ✓ Geology of the Yellowstone Country
- Aug 16-19 814 Family Horsepack: Bechler River Country of Yellowstone
- Aug 16-20 815 Horsepacking: Adventure in the Tetons
- Aug 16-20 816 Llama Trek: Our Wonderland Heritage
- Aug 23-27 817 Horsepacking: The Gallatin Mountains - Ylstrn's Conservation Role

SEPTEMBER

- Sept 6-10 901 Art & Nature
- Sept 7-8 902 Flight of the Nez Perce through Ylstrn
- Sept 8-11 903 ✓ Autumn Canoeing in Yellowstone
- * Sept 9-10 904 The Last of the Wild Rivers
- Sept 11-15 905 Autumn Wildlife Photography
- Sept 16-19 906 Wildlife Observation - Fall
- Sept 20-23 907 Grand Teton Photography
- Sept 22-24 908 Fly Fishing in the Fall

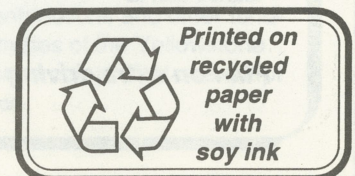
WINTER 1995

- Mar 17-19, '95 301 Tracking Yellowstone's Wolves

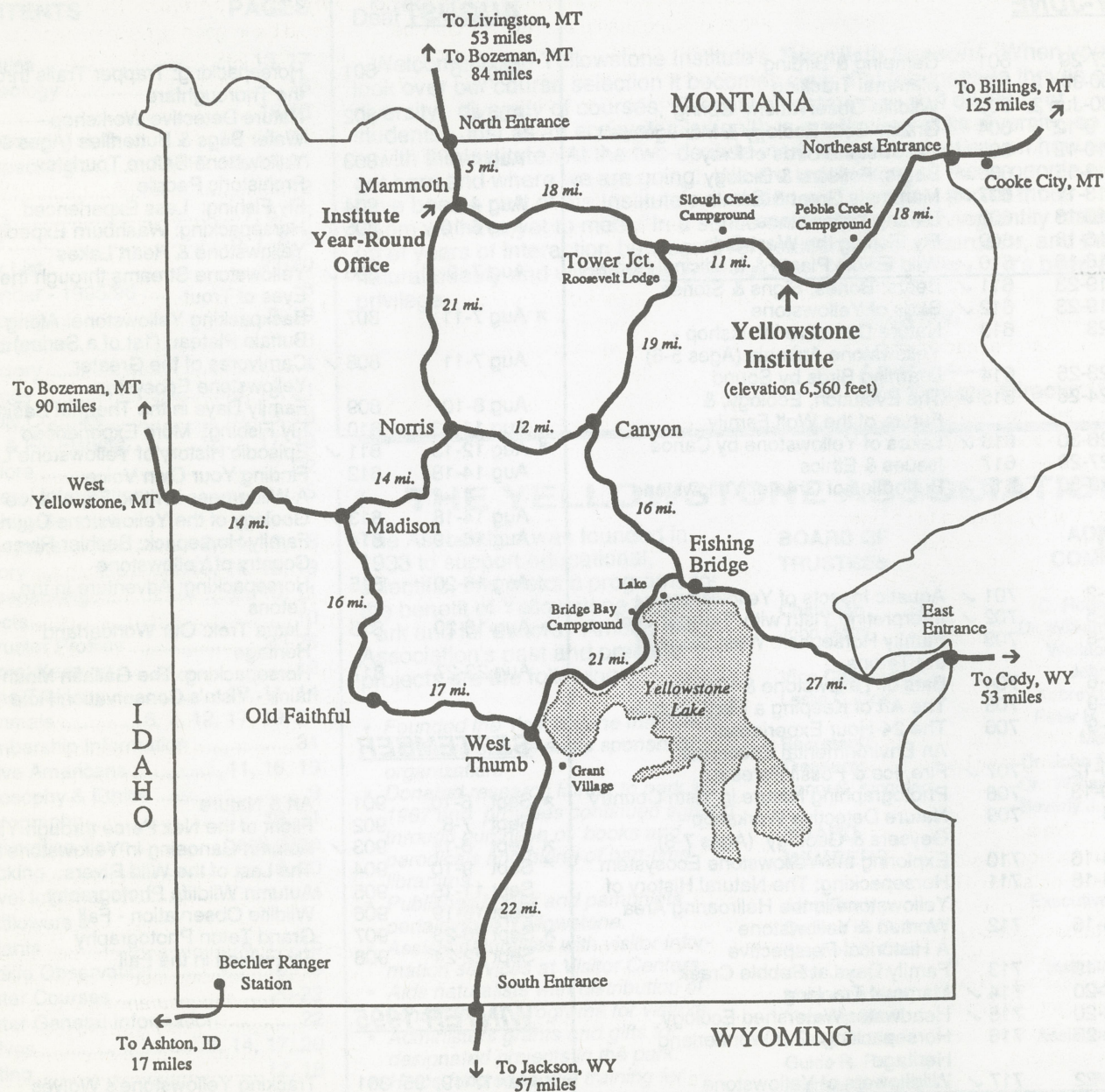
WINTER 1996

- Jan 12-15, '96 101 Winter Wildlife & Nature Photography
- Jan 12-15, '96 102 Backcountry by Ski
- * Jan 27-28, '96 103 How Mammals Survive Winter
- Jan 30- Feb 1, '96 104 The Winter Experience: Enjoying its Comforts
- Feb 2-4, '96 201 The Tradition of Winter Storytelling
- Feb 16-19, '96 202 Yellowstone's Winter World

- denotes a **New** class
- * denotes a weekend class (which may begin on Friday evening)
- ✓ denotes classes that are available for university credit



TRAVEL INFORMATION AND DIRECTORY



Major Airports

Bozeman, MT
Billings, MT

Regional Airports

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

Distances/Auto Travel Times to Yellowstone Institute

From Bozeman		
via Livingston	118 mi.	2-1/2 hrs.
From Billings	143 mi.	3-1/2 hrs.
Cody	126 mi.	3 hrs.
Jackson	146 mi.	3-1/2 hrs.
West Yellowstone	70 mi.	2 hrs.

DIRECTORY

Camping & Park Information

National Park Service,
Visitor Services (307)344-7381

Park Lodging, RV Park, Marina

TW Recreational Services
(307)344-7311

Wyoming Travel Information

Wyoming Division of Tourism
(800)225-5996

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

GENERAL INFORMATION

Tuition Unless otherwise specified, the tuition charge does not include lodging, meals, books, course materials, transportation, or university credit fees.

There is a discount for current members of the Yellowstone Association or those who join when they enroll.

Registration Complete and mail the registration form on the back page, along with the tuition fee (and cabin fee if applicable).

Most courses are limited to 10-15 participants. Early registration is advised. Reservations can be made by phone.

Location Courses are held at various locations within the Yellowstone ecosystem. Most are conducted at the Institute facility known as the Buffalo Ranch. It is an historic Park Service facility located in the Lamar Valley between the Northeast Entrance and Tower Junction. (*See map on previous page.*) See course location with description.

Transportation Participants must arrange their own transportation to and from Yellowstone and to the location where class begins. Where appropriate, Institute vehicles will be provided for field trips. Car pooling may be necessary in some cases.

Cabins There are twelve new and heated multiple-occupancy log cabins at the Institute. Most have two or three single beds. They have no plumbing or electrical outlets, but do have reading lights. Students must bring a pillow and warm sleeping bag. The fee is \$10 per person per night. Cabin rental for family members of participants may be allowed if space is available.

Other Lodging and Camping For those who choose not to stay at the Institute, other nearby sites in the park include summer-use campgrounds at Pebble Creek (9 miles east) and Slough Creek (7 miles west). Lodging within the park may be reserved through TWR Services, including Mammoth Hotel (29 miles west), Roosevelt Lodge (11 miles west at Tower Junction), and Canyon Lodge (30 miles southwest). Motels are available outside the park in Montana at Silver Gate (19 miles east) and Cooke City (23 miles east).

Pets, RVs, and Camping Pets are not allowed at the Institute, and Park Service regulations prohibit camping and recreational vehicle use on the grounds at the Yellowstone Institute facility.

Children Most courses and the Institute facilities are designed for adults. Therefore, children are not encouraged to attend—with the exception of the children's and family classes.

Classroom and Kitchen Facility The Institute's log building is heated and has two classrooms, three bathrooms with showers, a fully equipped kitchen where people do their own cooking, and an eating area. There are also picnic tables and a back porch overlooking Lamar Valley.

Food and Preparation Unless otherwise specified, participants provide their own food. There are two stoves and three refrigerators, a microwave and food storage areas. Ample cooking and eating utensils and dishes are provided. Space is limited so meals should be kept simple. The camaraderie of the community kitchen is one of the joys of students.

Student Packet At least four weeks before class begins, each student will be mailed detailed course information, suggested study materials if appropriate, plus a park entrance fee waiver.

Academic Credit Courses for which academic credit is available are so designated. Credit seekers may be required to take an exam, submit field notes, and/or complete a post-course project.

Institutions which offer credit include:

University of Montana (U of MT),
Montana State University (MSU),
Idaho State University (ISU),
Brigham Young University (BYU),
Ricks College (RC), and the
University of Wyoming (U of WY).

Registration forms will be provided on the first day of the course. Fees for credit are collected on the first day of class and are usually \$25-\$70, payable by check only. Students may enroll through their own university for independent study.

Certification of course completion, listing the course title, hours of instruction and the nature of the course is available upon request at no extra charge.

Physical Condition Participants should be in good general health for these courses since most require at least some walking at higher elevations. Classes which involve backpacking, horsepacking, canoeing, and field work will be more demanding. Ask in advance if you have any questions on this matter.

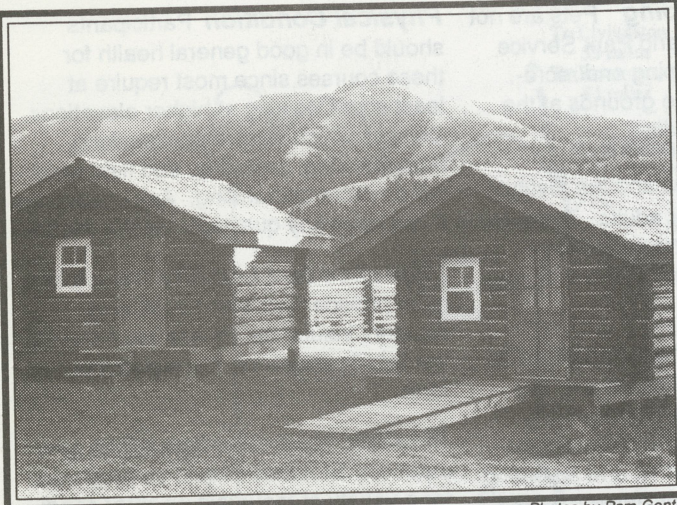
Insurance and Liability Participants must provide their own health and accident insurance. Please read and sign the liability waiver on the registration form.

Weather Much class time will be spent outdoors. Students should be prepared for a variety of mountain weather conditions and some cold temperatures. Please equip yourself for extremes.

Refund Policy Payments for Institute courses are fully refundable, less a \$35 per course processing fee (\$20 for Association members), if cancellation takes place at least 60 days before the course. No refunds can be made for cancellations received less than 60 days before start of course, unless your space can be filled. Tuition and cancellation processing fees may be applied toward tuition for another course during the current calendar year. Cabin fees are 100% refundable. **Important:** The Yellowstone Institute cannot make exceptions to this refund policy for any reason, including personal situations, emergencies, or weather. We strongly urge you to take out accident, baggage, and trip cancellation insurance through a travel agent. *Trip insurance protects you against financial loss if you must cancel or interrupt a trip because of illness or injuries to yourself, a family member, or travelling companion.*

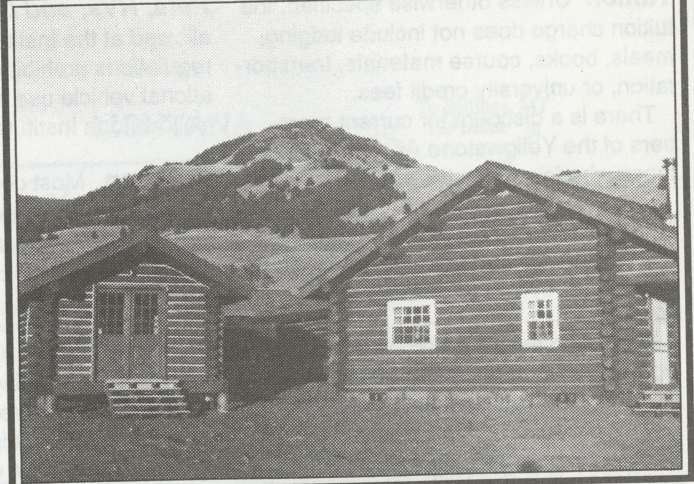
The Institute reserves the right to cancel a course up to 30 days before the first class day; if we cancel, you will receive a full refund.

Funding The Yellowstone Institute is non-profit. Tuition fees cover only a portion of the Institute costs. Other funding comes primarily through membership contributions and other fundraising activities of the Yellowstone Association, a non-profit, tax-exempt organization.



New log cabins at the Lamar - Buffalo Ranch.

Photos by Pam Gontz



The new store and director's cabin at the Lamar - Buffalo Ranch.

CAMPING & BIRDING (Yellowstone & Beyond): 601
May 27-29 \$225 (Member's fee \$215)
Location: Greater Yellowstone & Beyond Limit: 7
Instructor: Terry McEneaney New

A one-of-a-kind course designed for adventurous birders who want to explore birdlife in the Greater Yellowstone and beyond. The three day course combines field ornithology with outdoor camping, good food, and camaraderie. Students registering for this course must have a fun-loving attitude--able to put up with few comforts, unpredictable weather, potential flat tires, and of course the unexpected, which is all part of the outdoor birding, learning experience. A note of caution--Memorial Day is noted for its unpredictable weather, but we won't let that stop us. In outdoor situations like this, whiners are asked not to register! *Food is included in the cost of the course, and will be catered by a cook. All that is needed of participants is a good attitude, binoculars, basic camping gear, and proper clothing.*

The instructor guarantees an adventurous birding experience. The area to be explored includes the northern section of the Greater Yellowstone and unique habitats of central Montana. The sky is the limit on the variety of birds we will encounter. The course is restricted to seven students and a limited amount of gear, since we will be traveling by van. So if you enjoy camping (under all circumstances), birding, and exploring, this course is for you.



Photo by Pam Gontz

MAMMAL TRACKING: INTERPRETING TRACKS, SCAT, & OTHER SIGN

May 30 - June 2: 602 July 17-20: 714
\$202 (Member's fee \$192)

Location: Lamar - Buffalo Ranch Limit: 15
Credit available: U or G, 1 sem hour, U of MT, or MSU
Instructor: James Halfpenny, Ph.D.

Mammals are elusive and hard to observe in the wild. Much can be learned about them by detecting and reading their sign. Nature detective work will teach enrollees the joys of interpreting natural history from mammal sign. Emphasis is placed not on track identification, but on tracking as a process for understanding animal behavior.

Course content includes the role of natural history and ecology, keeping field notebooks, taxonomy, anatomy, terminology, measurements, track averaging, relative size, estimating track age, print identification, gait patterns, estimating speed, field techniques, finding clues, following trails, and teaching tracking. Slide lectures will provide access to Dr. Halfpenny's years of field experience, and laboratories will introduce concepts of gaits and speed. Field sessions will aid in learning to trail and read stories in tracks. *Fee includes \$25 for a copy of the instructor's book plus other course materials.*

WILDLIFE OBSERVATION - SPRING: 603

May 30 - June 2 \$137 (Member's fee \$127)

Location: Lamar - Buffalo Ranch Limit: 15
Instructor: Gene Ball

Late spring is a superb time for wildlife in Yellowstone. Field observation will be the major goal and activity of this introduction to the pre-summer park. 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, short midday hikes, and programs on various wildlife topics plus related issues and controversies.

The course will begin at 1:00 pm on May 30 and run to noon on June 2. The opening session will cover selection and use of binoculars and spotting scopes for quality wildlife observation.

GRIZZLY BEAR ECOLOGY & MANAGEMENT: 604

June 9-12 \$155 (Member's fee \$145)

Location: Lamar - Buffalo Ranch Limit: 20

Instructor: Sue Consolo Murphy

Conservation of Yellowstone's grizzly bear population involves a long history of controversy, research, and management challenges. This course will examine the ecology of the threatened grizzly bear, its natural history and current status in the Yellowstone ecosystem and a number of on-going management issues that affect the population's potential for long-term survival. Participants should be prepared for field trips daily to try to observe bears in the wild. These trips will not involve lengthy or strenuous hiking, but may occur in cold or inclement weather and in early morning and evening hours. The course will begin on Friday evening, June 9.



Photo by Pam Gontz

YELLOWSTONE BIRDS**OF PREY: 605**

June 10-12

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

Location: Lamar - Buffalo Ranch Limit: 15

Credit available:

U, 1 sem hour, MSU

Instructor:

John W. Martin

This course features Yellowstone's hawks, eagles, falcons, and owls, collectively known as raptors, in their natural habitats. Identification will be emphasized along with the role of predation in biological communities, predator-prey relationships, breeding strategies, and habitat influences. Conservation measures and management problems unique to raptors will also

be examined during the course. A special boat trip to Frank Island on Yellowstone Lake will be made to see nesting ospreys and bald eagles. Fee includes course materials and boat trip on Yellowstone Lake.

BEARS: FOLKLORE & BIOLOGY: 606

June 13-15 \$145 (Member's fee \$135)

Location: Lamar - Buffalo Ranch Limit: 15

Credit available: U, 1 sem hour, MSU

Instructors: Harold Picton, Ph.D. &

Jim Garry

This class will combine two disciplines and field observation time to explore the basic aspects of bear biology including reproduction, behavior, food habits, home ranges, habitat use, and population biology; and to address the bear's role in folkstories, images of bears in popular culture, bears as cult symbols, and the role of bears in today's world. Comparing and contrasting folk and scientific knowledge, and the importance of both, will be a continuing course theme.

MAMMALS GREAT & SMALL: 607

June 13-17

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

Location: Lamar - Buffalo Ranch Limit: 15

Credit available: U or G, 2 sem hours, ISU

Instructor: Don Streubel

The focus of this course will be the ecological role of mammals in the Yellowstone ecosystem. We will study their behavior, factors affecting their distribution and abundance, and their management. Field work and observation in different parts of the park will be emphasized, including early morning and evening observations of elk, bison, bears, bighorn sheep, pronghorns, ground squirrels, pikas, etc. Both large and small mammals will be considered, including a short study of ground squirrel behavior. No specific biological background is required, but enthusiasm and a desire to enjoy long hours in the field with animals is a prerequisite. Moderate, but not strenuous hiking will occur.

BIRDING YELLOWSTONE: 608

June 16-18

\$102 (Member's fee \$92)

Location: Lamar - Buffalo Ranch Limit: 15

Instructor: Richard Follett

The objective of this fast-paced course will be to see as many Yellowstone bird species as possible in two days! The class will feature early morning departures to visit prime locations and varied habitat sites with a goal of observing more than 80 species including the osprey, bald eagle, trumpeter swan, great gray owl, and harlequin duck. There will also be opportunities to observe many of the park's mammals. The class will begin at 8:00 pm on Friday, June 16, with introductions and a session on birding in Yellowstone.



Photo by Pam Gontz

FLY FISHING THE WEST SIDE: 609

June 16-18

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

Location: West Yellowstone, Montana Limit: 9

Instructor: Richard Parks

Based out of West Yellowstone, this course will focus on fishing the Madison, Firehole, and Gibbon drainages. It is geared for the more experienced person who has mastered the basics. The instructor will act primarily as a resource person in assisting participants in polishing their skills. Most instruction will be on an individual basis or in small groups. The instructor will work intensively with three persons each day. During the two days you are not having intensive instruction, you will practice on your own and meet with the group for morning and evening discussions.

1995 SUMMER FIELD COURSES

JUNE

WILD EDIBLE PLANTS & MEDICINAL HERBS: 610
June 16 - 18 \$155 (Member's \$145)

Location: Squirrel Meadows Area, Targhee National Forest, Idaho **Limit: 15**
Credit available: U, 1 sem hour, U of MT
Instructors: Wayne Phillips & Sunny Mavor

The blue camas meadows, ponds, aspen groves and coniferous forests in the area between Yellowstone and Grand Teton National Parks were an important food and medicine gathering area for early American people. The diversity of these ecosystems provides students with an exceptional area to study the edible and medicinal properties of many of the native plants of the West. This year, we will emphasize field identification of wild plants, major poisonous plants of the area, gentle harvesting techniques and safe herbal practices. We'll feast on wild foods and prepare our own botanical preparations. With the help of an ecologist and an herbalist, students will learn to develop their own wild food meals and medicines, and will gain important knowledge and respect for safe medical self-care with natural remedies.

Classroom headquarters for the course will be at a Forest Service cabin located near the Squirrel Meadows area which is situated along the scenic road between Ashton, Idaho, and the Flagg Ranch near the South Entrance to the park. *Participants should come prepared to camp out, or may choose to stay in a motel in Ashton, which is less than an hour away.* This is one in a series of four wildflower classes; see also course numbers 717, 720, 725.



Photo by Pam Gontz

BEARS: BONES, SIGNS & STORIES: 611
June 19-23 \$245 (Member's fee \$235)

Location: Lamar - Buffalo Ranch **Limit: 15**
Credit available: U, 1 sem hour, MSU
Instructors: Elaine Anderson, Ph.D., James Halfpenny, Ph.D., & Jim Garry

Ursophiles (Greek for "bear lovers") unite. Supplement your knowledge of bears with a unique triad of instructors. From Dr. Elaine Anderson you will learn the evolutionary history of carnivores, especially ursids, as she talks about fossil and recent bears--their bones and their distribution. Dr. Jim Halfpenny will teach about modern signs of bears and conduct a research project cataloging the "bear trees" of Yellowstone. Jim Garry will explore the vast and fascinating folklore of the bear, while examining the bear's

habitat and behavior. Lectures will be supplemented by field trips to study bear trees, interpret stories left by claw marks, and to map tree distribution. Evening programs will share the lore of bears from a world-wide perspective. *Tuition fee includes \$15 for materials and handouts.*

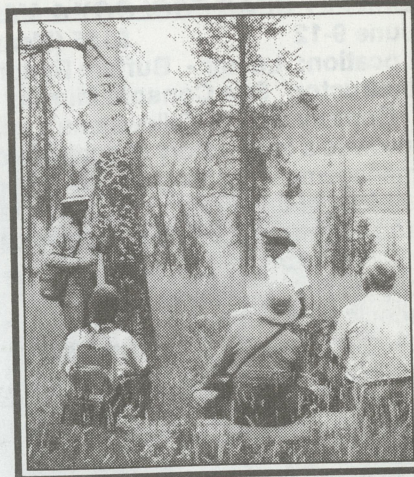


Photo by Pam Gontz

BIRDS OF YELLOWSTONE: 612
June 19-23 \$230 (Member's fee \$220)

Location: Lamar - Buffalo Ranch **Limit: 15**
Credit available: U or G, 1 sem hour, U of MT
Instructor: Richard Follett

This introductory ornithology course will emphasize field identification and ecological relationships of birds in the Yellowstone ecosystem. The course will feature field trips to all of the major habitats in the Yellowstone ecosystem, including a boat trip on Yellowstone Lake, a trip to the 11,000 foot summit of Beartooth Pass, and a breeding bird census of Blacktail Deer Plateau.

Every effort will be made to tailor instruction to the individual needs of the students. Amateur birders, including novices, as well as teachers and students will find this course extremely informative. Hikes and walks required for field surveys are not overly strenuous. Binoculars required. *Fee includes course materials and boat trip on Yellowstone Lake.*

NATURE DETECTIVE WORKSHOPS
June 23, Yellowstone Animals: 613 (Ages 5-6)
July 14, Geysers & Geology: 709 (Ages 7-8)
August 4, Water Bugs & Butterflies: 802 (Ages 9-10)
\$30 (Member's fee \$25)

Location: See course description **Limit: 8**
Instructor: Deb Ihli

These one day workshops focus on age appropriate activities with themes unique to the Yellowstone ecosystem. Students meet from 9:00 am to 3:00 pm (child care arrangements can be made for extended hours), at specified areas, with a sack lunch, snacks, and gear as recommended in the student letter.

June 23, Yellowstone Animals: 613 Ages 5-6 This course includes a day hike exploring the habitat and food habits of Yellowstone animals. The students will be introduced to animal tracking and make plaster casts of tracks near Obsidian Creek. This course begins at Beaver Lake Picnic area. *Lodging: Mammoth Hot Springs Hotel is the closest accommodation with rooms and cabins. The nearest campsites are the Indian Creek Campground or Mammoth Campground.*

-- Continued on next page --

NATURE DETECTIVE WORKSHOPS [continued]

July 14, Geysers & Geology: 709 Ages 7-8 This course includes a day of hiking and geyser gazing. Students will develop an understanding of geothermal activity, what geysers are, how they work, why they are hot, and what lives in them! This day begins at Old Faithful Lodge. *Lodging: The nearest accommodations available are the Old Faithful Inn, Old Faithful Snow Lodge, and Old Faithful Lodge. The nearest campgrounds are at Madison or Norris.*

August 4, Water Bugs & Butterflies: 802 Ages 9-10 This course includes legal wading in hot spots, and identification of stream life found in the Yellowstone river systems. We will also observe different patterns, colors and characteristics of butterflies. Students will learn techniques for "catch and release" collection and identification. Students should bring or make arrangements to have a life jacket, wading shoes, and apparel that can get wet. The day will end with a PARENT/STUDENT swim in the Boiling River. The course begins at the 45th parallel between Gardiner and Mammoth. *Lodging: Mammoth Hot Springs Hotel is the closest accommodation with rooms and cabins. The nearest campsites are the Mammoth Campground or Indian Creek.*

LEARNING BIRDS BY SOUND: 614

June 23-25 \$110 (Member's fee \$100)
Location: Lamar - Buffalo Ranch Limit: 8
Instructor: Terry McEneaney

One of the most pleasant features of birdlife is the sounds they make. The most noticeable sounds in the spring are the songs of the perching birds; however, birds make a variety of other sounds such as calls, chip notes, clucks that are vocal, quivering, fluttering, gaping, and even flying noises that emit sound complementing a display. Designed for birders with little, if any, experience in bird sound identification, students in this class will learn how to identify the sounds of at least 50 species of birds. People will learn sounds to different degrees, depending on their ability to hear high and low pitches. Field trips will be the major emphasis with a chance for individual skills development. If you feel you can identify birds by sight, but are interested in identifying more birds by the sounds they make, then this course is for you. Class will begin on Friday, June 23, at 7:30 pm.

THE EVOLUTION, ECOLOGY, & FUTURE OF THE WOLF FAMILY: 615

June 24-26 \$160 (Member's fee \$150)
Location: Lamar - Buffalo Ranch Limit: 15
Credit available: U, 1 sem hour, MSU pending
U, 1 sem hour, U of MT pending
Instructors: Elaine Anderson, Ph.D., & James Halfpenny, Ph.D.

Dire wolves, gray, red, and timber wolves; coyotes, foxes: the canids have all roamed the North American continent. How did they evolve and how do they fit together? Where does the domestic dog fit in? Some still survive in North America in spite of their human co-habitants. 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, Jim, carnivore ecologist, and invited lecturers to answer these and more questions.

Morning and evening lectures will be supplemented by afternoon field trips. Field trips will emphasize:

(1) tracking wolves as a skill for their detection, identification, and ecological study; (2) wolf reintroduction into Yellowstone; and (3) coyotes and foxes of Yellowstone. Yellowstone National Park wolf biologists will be invited to lecture. *Fee includes \$15 for course materials.*



Photo by Pam Gontz

LAKES OF YELLOWSTONE BY CANOE: 616

June 26-30 \$375 (Member's fee \$365)
Location: Shoshone Lake, Yellowstone Backcountry
Credit available: U or G, 1 sem hour, RC/BYU
Instructor: Scott Wood Limit: 12

This five day canoe trip across Lewis Lake and into magnificent Shoshone Lake, the largest wilderness lake in the lower 48, will provide interpretation of the lake environment and instruction on low-impact backcountry camping techniques. Canoeing skills such as strokes, portaging, safety and tripping (how to pack a canoe) will be studied and American Red Cross canoeing certification may be earned if desired. Class will start from the Lewis Lake campground boat dock on the morning of June 26. *Fee includes all canoeing equipment, group camping gear, and food.*

ISSUES & ETHICS: 617

June 27-29 \$135 (Member's fee \$125)
Location: Lamar - Buffalo Ranch Limit: 15
Instructors: Rebecca Schanz & Kathryn Bulinski

"In my experience... with [Yellowstone], I have been very forcibly impressed with the danger to which it is subjected by...greed. In the unsurpassed grandeur of its natural condition, it is the pride and glory of the nation; but if...selfish interests are permitted to make merchandise of its wonders and beauties, it will inevitably become a byword and a reproach." - Captain Moses Harris, superintendent of Yellowstone 1886-1889.

Over one hundred years later Yellowstone faces continued pressure and threats to its existence. Extractive industries of mining, logging, oil and gas drilling and geothermal development jeopardize the sanctity of Yellowstone. Management of elk and buffalo herds continues to draw controversy. Wolf reintroduction pits neighbor against neighbor.

We will examine critical issues and discuss divergent opinions regarding Yellowstone, integrating land ethics and personal experience. Excursions to field sites will allow both advocates and opponents of these issues room to expand their views. Ultimately we will ask ourselves if Yellowstone's future will prove to be a reproach, its very name a byword.

1995 SUMMER FIELD COURSES

JUNE-JULY-AUGUST

BUTTERFLIES OF GREATER YELLOWSTONE: 618

June 28-30 \$150 (Member's fee \$140)

Location: Lamar - Buffalo Ranch Limit: 15

Credit available: U or G, 1 sem hour, ISU

Instructor: Robert Anderson, Ph.D.

Expanded to three days in 1995, this course on butterflies explores their unexcelled beauty and aesthetic appeal. Their diverse colors and patterns have inspired many a naturalist, both amateur and professional. The biotic sensitivities of butterflies to local environments and microhabitats have resulted in a rich array of genera, species and subspecies. Indeed, many--especially those that survive in confined or compressed habitats--are rare or endangered and on the verge of extinction. The Greater Yellowstone Ecosystem supports nearly 130 species of butterflies, many of which can delight our vision in subtle ways as their presence passes between blue birds and bison. Participants will discover the butterfly bounty of Yellowstone and its environs while observing their numbers, variety, flight characteristics, food requirements, life cycles and other attributes. *Fee includes \$15 for course materials.*

AQUATIC INSECTS OF YELLOWSTONE: 701

July 1-2 \$110 (Member's fee \$110)

Location: Lamar - Buffalo Ranch Limit: 15

Credit available: U or G, 1 sem credit, ISU

Instructor: Robert Anderson, Ph.D. **New**

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 the nymphal immature stages are adapted to life in the water where they live with backswimmers, water boatmen, water striders, water bugs and scavengers, diving beetles, whirligigs, and a variety of maggots--the larvae of real flies. The diversity and habitats of the aquatic forms on which so many birds and fish depend for survival will be examined through excursions in the lab and field. *Fee includes \$15 for course materials.*

INTERPRETING YELLOWSTONE WITH "RANGER TED"

July 3-5: 702 July 31 - Aug 2: 729

Adult - \$125 (Member's fee \$120)

Child - \$ 65 (Member's fee \$ 60)

Location: Fishing Bridge Limit ea. session: 20

Credit available: G, 1 sem hour, BYU

Instructor: Ted J. Parkinson

Participants will be introduced to some of the wonders of Yellowstone by a semi-retired ranger-naturalist whose first summer in Yellowstone was in 1945. Ted Parkinson has seen almost a complete turnaround in several park management policies. His series of nature hikes and programs will encompass themes such as park history, environmental issues, personal reminiscences, kinship and interdependence of all life, predator-prey relationships, wilderness ecosystems, a U.S. Army history-archeology hike, and true bear stories. Activities will include short hikes, a visit to a bear den, wildlife observation, and plant identification. All hikes will include lots of short stops for relevant comments. There will be free time in the afternoon until the evening program begins. Families will carpool to various trailheads each day. This class will meet in the Lake/Fishing Bridge area. *Reservations at Bridge Bay Campground may be made through TW Recreational Services at (307)344-7311.*

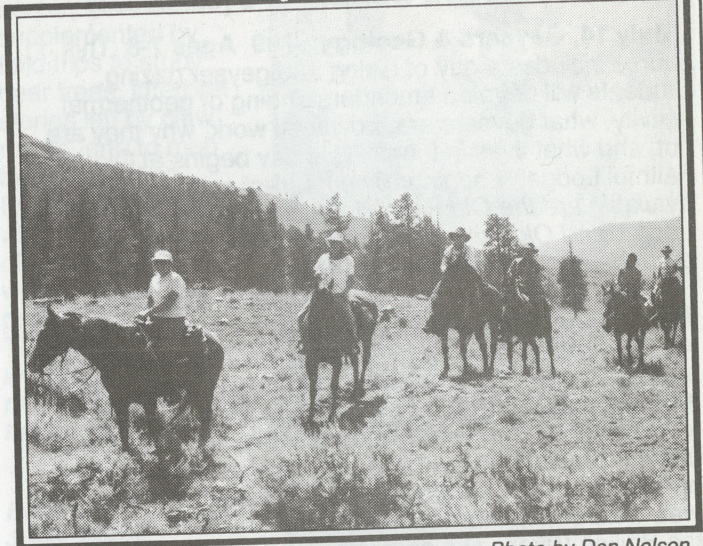


Photo by Don Nelson

WONDERLAND HORSEPACKING & LLAMA

ADVENTURES - Horsepacking in, for, and about Yellowstone's Backcountry

July 5-8 Family Horsepacking: West Slope of the Tetons: 703

July 14-18 The Natural History of Yellowstone-Hellroaring: 711

July 19-23 Our Wonderland Heritage Horsepack: An Experience with Wildlands Values: 716 **New**

July 23-27 A Land Ethic in the Bechler River Cascade Corner: 721

July 28-Aug 1 The Nez Perce Trail-Mirror Plateau: 726

Aug 2-6 Trapper Trails through the Thoroughfare: 801

Aug 6-10 Washburn Expedition-Yellowstone & Heart Lakes: 805

Aug 16-19 Family Horsepacking: Bechler River Country of Yellowstone: 814

Aug 16-20 Adventure in the Tetons: Granite Spires and Alpine Meadows: 815

Aug 16-20 Our Wonderland Heritage Llama Trek: An Experience with Wildlands Values: 816 **New**

Aug 23-27 The Gallatin Mountains-Yellowstone's Conservation Role: 817

Limit: 12 per class

(For instructor see individual course descriptions.)

4-day class (703 & 814): \$525 (Member's fee \$515)

5-day class (all others): \$610 (Member's fee \$600)

Along with the specific theme and area of the park visited, each of these courses stress low-impact use of pack stock in the backcountry. Courses are participatory, rather than catered trips, where students learn use and care of pack and riding stock, and how to camp and travel in the wilderness without damaging the fragile country. *Fee includes pack stock, saddle horses, camping equipment, and food. Participants must provide their own sleeping bags and personal effects.* Due to park management policies, trip locations may change on short notice due to backcountry conditions.

- Continued on next page -

In the North:

July 14-18, The Natural History of Yellowstone in the Hellroaring Area - Emphasis of this course will be on the identification of Yellowstone's plant and animal life while in the backcountry. Instruction will be given on forest, wildflower, bird, and mammal identification techniques. While exploring the Hellroaring country in and around the Yellowstone River, there will be ample opportunity to discover the wildlife and plant cover of northern Yellowstone. Instructor: Richard Clark, Ph.D.

In the Southwest:

July 19-23, Our Wonderland Heritage Horsepack: An Experience with Wildlands Values - This course is an immersion learning experience into the backcountry of Yellowstone via horsepack. Each year emphasis will be centered on a particular value, often immeasurable, derived from being in these natural places.

In 1995 "connection with the infinite," the "sacredness" affiliated with the land, and the "spiritual" dimensions of the wildland experience will be explored, including our conflicts and comforts with this sense of sacredness. Included in this exploration will be a look at the American Indian view of the sacredness of land, the European immigrant's distortion and destruction of that idea, and the future of humankind in relation to the sacredness of nature. Along with the horseback adventure, activities will include special readings, writing, and group discussions.

The course will be staged in the Bechler River country in the southwest quadrant of the park. Instructor: Ruth Rudner

July 23-27, A Land Ethic in the Bechler River Cascade Corner - Exploration of the lush meadows, the stately forests, and the cascading waterways of the Bechler River drainage will be enhanced with attention being given to the "values" of wildlands. Human needs will be identified that create these values and a written personal land ethic will be shared with other participants through journal entries and group discussions. Instructor: Richard Clark, Ph.D.

Aug 16-20, Horsepacking Adventure in the Tetons: Granite Spires and Alpine Meadows - The high alpine ecosystem of near treeline will be studied as participants in this course traverse the Teton Crest Trail and go "Over the Top." The cultural and natural history of the Tetons will be shared as this group crosses what was once called the "Skyline Trail." Special care will be taken in this fragile environment with pack stock and emphasis will be given on techniques used to keep environmental impacts light. The route planned passes through areas 10,000 foot elevation or higher with spectacular views of the Teton peaks. The Tetons are sculptured by glaciation and show block faulting. Instructor: Fox Creek Pack Station, Inc. Staff

Aug 16-20, Our Wonderland Heritage Llama Trek: An Experience with Wildlands Values - See description for July 19-23 horse trip. This course will be the same except llamas will be used instead of horses. Instructor: Ruth Rudner

In the Northeast:

July 28-Aug 1, The Nez Perce Trail - Mirror Plateau - In August of 1877 several hundred Nez Perce American Indians entered Yellowstone in flight from the United States Army. To this day their exact route is not known. In this course one possible route will be examined that followed Pelican Creek up to its source on the Mirror

Plateau. Evidences supporting this route will be studied and shared. Group discussions will speculate on the topography and the logistics pertaining to this route. The ride will include a loop through Broad Creek as well as Pelican Creek and back to the Pelican Creek trailhead. Instructor: Richard Clark, Ph.D.

In the Southeast:

Aug 2-6, Trapper Trails through the Thoroughfare - Names like Jim Bridger, Tom Fitzpatrick, Hugh Glass, and Osbourne Russell were attached to those who used Two Ocean Pass and the east shore of Yellowstone Lake to get into the interior of the Yellowstone plateau to trap the coveted mountain beaver. This group will learn of these men and their parties who came to use Yellowstone to obtain the fur wealth of her rivers and streams. The route comes down the Yellowstone River from outside the park on the south, and along the east shore of Yellowstone Lake to Columbine Meadows where the group will be ferried across the lake to Bridge Bay. Instructor: Richard Clark, Ph.D.

Aug 6-10, Washburn Expedition - Yellowstone & Heart Lakes - Discussion will center on the birth of an idea, an idea of a "national park," that blossomed out of the 1870 travels of nine citizens of Helena, Montana, through the Yellowstone Country. While we recount their experiences and adventures, we will revisit the country that inspired them to want to share those experiences and adventures with their posterity and fellow citizens to follow. The course begins at Bridge Bay where a boat will transfer participants to Columbine Meadows. Participants will ride horseback along the east and south shores of Yellowstone Lake, cross the Continental Divide, and then traverse the Heart Lake area. Instructor: Richard Clark, Ph.D.

In the Northwest:

Aug 23-27, The Gallatin Mountains - Yellowstone's Conservation Role - Like other sections of the park, the Gallatin Mountains have a unique beauty of their own. Quietly becoming familiar with this beautiful corner of the park brings with it the natural desire to see that these places are conserved and preserved so that all can enjoy and absorb them. Yellowstone could be an important center for understanding the need for conservation practices on a global basis. Conservation as it applies to the earth's environment and her economies will be discussed. Suggestions will be shared for a role that Yellowstone might play in such an enterprise. Instructor: Richard Clark, Ph.D.

Horsepacking Adventures for Families (Mom, Dad, & the Kids): July 5-8 and Aug 16-19, Family Horsepacking - These courses are designed to be a common adventure for members of a family. Parents are the family leaders and will be aided in providing instruction for the members of the family. Instruction will be available in horseback riding, basic camping, and nature study. With instruction participants will saddle, bridle, and hobble their own horses. Each family will set up their own tents and take turns with camp chores. Each family will cook and clean up one meal for the group. This is a participatory course and is not catered.

The first day is staged at the corrals at Fox Creek Pack Station, Inc. in Victor, Idaho, for instruction followed by a three day horsepack trip into the backcountry. Instructor: Fox Creek Pack Station, Inc. Staff

BATS OF YELLOWSTONE PARK & VICINITY: 704

July 4-6 Limit: 15
\$150 (Member's fee \$140)

Location: Lamar - Buffalo Ranch **New**
Instructor: Tom Butts

We will begin this course by learning about the bats that live in the Yellowstone Park vicinity and how to identify them. We will also learn how bats are studied. Once the sun sets, on two consecutive evenings, we will listen for bats using special electronic equipment, and we will try to capture a few using mist nets (they will be released unharmed after they are identified, weighed, and measured). We will also learn about bat habitat use and conservation, and we will each build a bat house to take home. *Fee includes \$15 for materials.*



Photo by Pam Gontz

THE ART OF KEEPING A FIELD JOURNAL: 705

July 6-9 \$177 (Member's fee \$167)

Location: Lamar - Buffalo Ranch Limit: 15
Instructors: Hannah Hinchman

This course is for the student of nature who wants to deepen his or her outdoor experiences by keeping a journal. During this four day workshop we will explore the sublimity of Yellowstone's rich ecosystems, drawing and writing in the field. We will work both on quick recording and on more extended, reflective studies. By observing the works of some of the great naturalists and artists, we will learn about their techniques and intentions. The emphasis of this course will be less on amassing information and more on finding methods of discovery. Hikes of moderate length can be expected.

THE 24-HOUR EXPERIENCE: AN ENVIRONMENTAL ENCOUNTER: 706

July 8-9 **New**
\$100 (Member's fee \$90)

Location: Lamar - Buffalo Ranch Limit: 10
Instructor: Don Nelson

Have you ever wanted to venture overnight into the Yellowstone backcountry but just didn't know how to get started and what might be encountered? This unique experience with the outdoors, designed for beginners, will give you the information and skills to feel safe and prepared so that you can enjoy yourself in complete confidence. Classroom discussions and demonstrations of clothing, cooking equipment, shelter, and packing will take place before departing on the experience. The "experience" will introduce you to the two-fold backcountry; the one that is "out there" and the one that is within you. Through map and compass work, meal prep, night travel, natural history interpretation, solo time, readings, cat naps, and philosophizing, you will live the flow of the wilderness through a 24-hour period.

Details of the "experience" and an annotated equipment list will be sent ahead of time. *The course fee includes a backcountry dinner and breakfast.*

FIRE, ICE & FOSSIL FORESTS: 707

July 10-12 \$135 (Member's fee \$125)

Location: Lamar - Buffalo Ranch Limit: 15

Credit available: U, 1 sem hour, MSU

Instructor: John Good

This course will introduce participants to the unique petrified forests of Yellowstone and to the Ice Age history of the park which profoundly influenced today's landscapes, flora, and fauna. There will be a discussion of the theory that repeated episodes of volcanic activity buried living forests in ash and mudflows to be slowly petrified by mineral-bearing hot water. Moving to the last two million years, discussion will focus on glacial ice and volcanic explosions. The course will involve a field trip to observe evidence of glaciation and discuss the volcanic history of Yellowstone and the Absaroka and Beartooth Mountains, an all-day hike on Specimen Ridge, and a hike up Mt. Washburn where glacial and volcanic phenomena are visually united.

PHOTOGRAPHING NATURE IN YELLOWSTONE COUNTRY: 708

July 10-13 \$187 (Member's fee \$177)

Location: Lamar - Buffalo Ranch Limit: 15

Instructor: Sandra Nykerk

This four day workshop will begin with the basics of photographic principles including the ethics of nature photography, creative visualization, learning to see the light, metering, exposure and composition. With this foundation, more advanced topics will be discussed, including film and equipment selection, macro photography, and using flash in the field. Classroom lectures and slide programs are integrated with in-the-field shooting to allow maximum opportunity for "hands-on" learning and enjoyment of this spectacular region. Yellowstone's magnificent diversity, including misty early morning scenics, majestic wildlife, and the brilliant colors and steamy surrealism of the thermal features, offers an unparalleled setting for learning and expanding photographic skills. Emphasis will be on developing personal vision and creativity combined with technical excellence and an understanding that a really good nature photographer is an even better naturalist! *Lab film processing will take place; student will be responsible for paying for processing.*



Photo by Pam Gontz

1995 SUMMER FIELD COURSES

JULY

NATURE DETECTIVE WORKSHOPS: 709 July 14
Geysers & Geology (Ages 7-8) (see pg 9)

EXPLORING THE YELLOWSTONE ECOSYSTEM: 710
July 14-16 \$135 (Member's fee \$125)
Location: Lamar - Buffalo Ranch Limit: 15
Instructor: Tom Watson

Based out of Lamar, this course will look at park geology, wildlife, botany and history in the context of an ecosystem. It will examine Yellowstone's fiery birth, its frozen past and how these events prepared the stage upon which plants and animals act out their interdependent roles. The class will look at geysers and hot springs and many wildlife species and will consider what they are, why they are present in Yellowstone and the threats they face. An abiding interest in nature, not scientific training, is the only requirement. The class will meet from 9:00 am, July 14 through early afternoon July 16.

HORSEPACKING: The Natural History of Ylstrn in the Hellroaring Area: 711 July 14-18 (see on pg 11)



Photo by Don Nelson

WOMEN & YELLOWSTONE - A HISTORICAL PERSPECTIVE: 712

July 15-16 \$95 (Member's fee \$85)
Location: Lamar - Buffalo Ranch Limit: 15
Instructor: Karen Krieger

This course examines Yellowstone as seen by women in the late 19th and early 20th centuries. Using diaries, letters, photographs and other historical resources, the group will discover the variety of experiences encountered by women residents and visitors to the park during its early years. Day hikes will include exploring old tourist sites, cemeteries, and natural features which encourage an understanding of how women interacted with Yellowstone. Day hikes of one to three miles can be expected.

FAMILY DAYS AT PEBBLE CREEK: 713
July 17-19

Adult - \$125 (Member's fee \$120)
Child - \$ 65 (Member's fee \$ 60)

Location: Pebble Creek Limit: 20
Instructors: Sandra Nykerk & Jim Garry

This three day family camping experience will headquarter at Pebble Creek Campground in the northeast corner of Yellowstone National Park. From there we will explore this area's spectacular landscape both in and out of the park. Through hikes, discussions, and games, partici-

pants will learn about the geology, wildlife, botany, and history of this very special region. We will also spend some time looking at the effects of the '88 fires to understand why this was such an important process for the Yellowstone ecosystem. Both campsite activities and field trips will be paced for a family experience. Critter watching at dawn will be an option for class participants, and an evening campfire storytelling session will introduce the mythology and folklore of the Yellowstone country. Children in this class should be at least six years of age. Class will begin at 9:00 am on July 17. *Families must provide their own food, including picnic lunches in the field. Campsites are available at Pebble Creek for \$6/night and it is recommended that sites be secured by mid-morning on July 16. For the non-campers, lodging is available at Roosevelt Lodge in the park or the Silver Gate/Cooke City, Montana, area.*

MAMMAL TRACKING: 714 July 17-20 (see pg 6)

HEADWATER WATERSHED ECOLOGY: 715
July 18-20 \$135 (Member's fee \$125)
Location: Lamar - Buffalo Ranch Limit: 15
Credit available: U or G, 1 sem hour, U of MT
Instructor: Roy Mink, Ph.D.

Yellowstone Park offers a unique opportunity to study a watershed which has had minimal impact by man. The park is very unusual in that it is the headwaters for two major United States river systems: the Yellowstone-Missouri-Mississippi and the Snake-Columbia.

The goal of this course is to understand a watershed. Much of our past environmental management strategies have been oriented toward managing a specific resource (such as timber) or species (such as trout) without regard to how that specific entity interacts within the total system. The watershed approach takes into account how each aspect of the ecosystem interrelates with every other. Students will go to the headwaters of a Yellowstone drainage and along the way look at hydrology and stream ecology in order to understand the relationship of various aspects of the watershed. The relationship of several smaller watersheds making one large watershed will also be investigated and a "stream walk" stream survey will be conducted as part of the course. This survey could be used for teachers or citizen groups interested in stream monitoring.



Photo by Don Nelson

HORSEPACKING: Our Wonderland Heritage: 716
July 19-23 (see pg 11) **New**

1995 SUMMER FIELD COURSES

JULY



Photo by Pam Gontz

WILDFLOWERS OF YELLOWSTONE: 717
July 21-22 \$105 (Member's fee \$95)
Location: Lamar - Buffalo Ranch **Limit:** 15
Credit available: U, 1 sem hour, U of MT
Instructor: Wayne Phillips

During this class basic plant identification skills will be developed through botanical walks and short classroom sessions. A variety of forest, meadow and streamside habitats will be studied. Field identification of the trees, shrubs, grasses and wildflowers of northern Yellowstone will be emphasized. Plant ecology, wildflower photography and historic plant uses will also be discussed. This is one in a series of four wildflower classes; see also course numbers 610, 720, and 725. *Fee includes \$10 for course materials.*

GEYSERS, MUDPOTS, & HOT SPRINGS: 718
July 21-23 \$160 (Member's fee \$150)
Location: Old Faithful **Limit:** 15
Credit available: U, 1 sem hour, MSU
Instructor: Duncan Foley, Ph.D.

The rare, spectacular geothermal features of Yellowstone will be explored in this course. After a short introduction, visits to mudpots, hot springs, and geysers will begin with hikes timed to see several of the less common geysers erupt. The class will meet at the Grand Canyon of the Yellowstone at noon on July 21 and then proceed to the Old Faithful area for a full day of geyser gazing on July 22. Norris Geyser Basin and other sites will be visited on July 23, with class ending early afternoon. No background in geology is required. Fee does not include lodging. This class will headquarter at Old Faithful. Early lodging reservations are essential. Contact the Institute office for information on lodging and camping. *Fee includes \$15 for course book and materials.*

"Suddenly, and while we were returning to camp, -- with a tremendous spasm, which threatened to tear the very earth asunder, it threw an immense column to the height of two hundred feet or more. Our party could not repress a loud shout, and this, followed by a second eruption of the same geyser, more wonderful, and longer duration than the first. . ."
--Nathaniel P. Langford, 1873

YELLOWSTONE PLACE NAMES: THE NOMENCLATURE OF WONDERLAND: 719 **New**
July 21-23 \$135 (Member's fee \$125) **Limit:** 15
Location: Lamar - Buffalo Ranch
Instructor: Lee Whittlesey

This three day class will acquaint you with the origins and history of some of the 2000 active and 2000 obsolete place names of natural features in Yellowstone National Park. Included will be biographical information on the historic persons for whom natural features (mostly mountains) are named; background history on who gave the names, when, and why; and discussions on the rules for place names worldwide. Find out about the U.S. Board on Geographic Names and their rules for proposing new names and changing existing ones, the role of local usage in place names, and what makes a name official. Learn how Greek and Roman mythology affected Yellowstone's place names and about the influences from American politics and world literature including the Bible.

WILDFLOWERS OF THE HIGH COUNTRY (LLAMA TREK): 720
July 23-27 \$375 (Member's fee \$365) **Limit:** 10
Location: Beartooth Backcountry
Credit available: U, 1 sem hour, U of MT
Instructor: Wayne Phillips

For this backcountry study of alpine plants and their environment, group gear and food will be transported by llama to a campsite near the high country lakes of the Beartooth Mountains. Participants should be prepared for strenuous off trail hikes of about 5 to 10 miles per day in rugged mountain terrain at an elevation above 8,000 feet. Wildflowers along the edges of the many lakes, streams, snowbanks and glaciers will be featured, from the alpine tundra to the open subalpine forest. This is one in a series of four wildflower classes; see also course numbers 610, 717, and 725. The class will begin the evening of July 23 at the Lamar facility. *Enrollees must bring sleeping bag, pad, and pack. Fee includes group equipment, food and llama packing. A camp cook will prepare meals.*

HORSEPACKING: A Land Ethic in the Bechler River Cascade Corner: 721 **July 23-27** (see pg 11)

THE WOLF'S RETURN - MYTHOLOGY TO RECOVERY: 722 **New**
July 24-26 \$150 (Member's fee \$140) **Limit:** 15
Location: Lamar - Buffalo Ranch
Instructors: Brian Peck and Linda Miller

This summer for the first time in over 60 years, the wolf's howl may finally have returned to Yellowstone, and we'll be there. It is planned that during winter 1994-95 the U.S. Fish & Wildlife Service will have brought in and released 15 wolves at three sites that bracket the Institute. Using slide shows, storytelling, expert speakers and field trips, we'll learn of the wolf's demise and be part of its triumphant return. An emphasis will be placed on field trips and nature hikes whenever possible. Readings will range from Barry Lopez's *Of Wolves and Men* to Rick McIntyre's *A Society of Wolves*. Extensive handouts will be provided. Return with us now to yesteryear as we welcome home North America's dominant predator to the world's first national park. *Tuition fee includes \$15 for materials and handouts.*

1995 SUMMER FIELD COURSES

JULY-AUGUST

HOT ROCKS, HOT WATERS & GREAT SHAKES: YELLOWSTONE AS A NATURAL GEOLOGICAL LABORATORY: 723

July 24-28 **\$230 (Member's fee \$220)** **New**

Location: Lamar - Buffalo Ranch **Limit:** 15

Credit available: U or G, 1 sem hour, U of MT pending

Instructors: Duncan Foley, Ph.D., & Roy Mink, Ph.D.

The story of Yellowstone Park as a unique global site is ultimately a geological story. Without currently active geological forces, the high elevations, geothermal systems, and diverse biology of this area would not exist. In this class, we use the stories of Yellowstone's volcanic heat, magnificent geysers and ongoing seismic activity to explore the kinds of questions that geologists ask and the kinds of scientific approaches that are used to answer these questions. We will place Yellowstone in its regional geological context, compare Yellowstone with other volcanoes, and spend most of our time in the field looking at how natural phenomena are recorded in rocks, waters and landscapes. We will synthesize our observations and interpretations to build a picture of how volcanic, hydrologic and geologic systems have interacted through time to develop the geysers and other geothermal features of today. This class is intended for middle or secondary school teachers, and anyone who has an interest in geology and earth processes. This is an interactive class, with participants expected to bring an interest in the subject, willingness to actively participate and lots of questions. *Fee includes \$10 for handouts to be distributed in class.*

BACKPACKING IN GRIZZLY COUNTRY: 724 **New**

July 25-27 **\$135 (Member's fee \$125)**

Location: Pebble Creek Backcountry **Limit:** 10

Instructor: Michael Bartley

This three day backpack in Yellowstone is for people who want to learn to travel safely, confidently and respectfully in grizzly country. The grizzly bear is one of the most magnificent animals in the world. Hiking and camping 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.

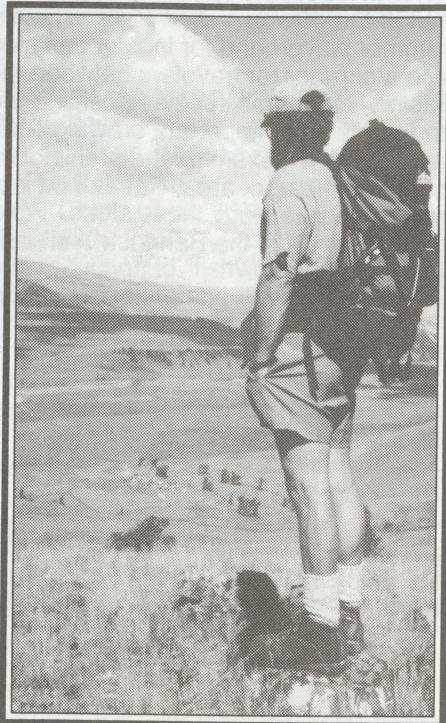


Photo by Susan Willisie

Adapting the principles of "Leave No Trace" to bear country, you will learn the "hard" skills necessary to reduce the possibility of encountering a bear on trail and in camp. We will include suggestions on how to deal with both daytime and nighttime bear encounters. Furthermore, we will discuss the biological, ecological, political, and social aspects of the threatened bear and its long term prospects for recovery. This course is designed for the beginning backpacker. The terrain and pace of the course will allow the inexperienced hiker plenty of time to absorb the many backcountry lessons to be learned. Remember: For some this hike can still be difficult. As with any backpack, you must be in good physical condition. Regardless of your level of experience if you are new to hiking in grizzly country or simply "bearphobic," we recommend that you take this course. *Participants provide their own backpacking gear and food. A complete equipment list will be provided in the student packet.*



Photo by Pam Gontz

ALPINE WILDFLOWER WALKS: 725

July 28-30 **\$110 (Member's fee \$100)**

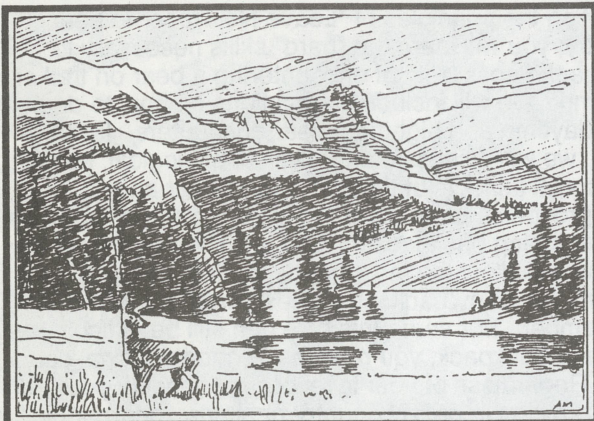
Location: Lamar - Buffalo Ranch **Limit:** 15

Credit available: U, 1 sem hour, U of MT

Instructor: Wayne Phillips

Wildflowers growing in the alpine tundra above the tree line will be the focus of this course. Participants will make day hiking trips through the high country of the Beartooth Plateau to study the beauty of flowers found only in circumpolar arctic environments and on the highest mountain tops south of their arctic home. A variety of alpine ecosystems will be studied including the "krummholz," or windbattered, horizontal pygmy forest, the cushion plants of the boulder fellfields, the lush alpine meadows, and the flowers that spring up behind the receding snowbanks. Physical ability for strenuous on and off trail hikes of 5 to 10 miles in rugged mountain terrain above 10,000 feet elevation is required. The class will start the evening of July 28. This is one in a series of four wildflower classes; see also course numbers 610, 717, and 720. *Fee includes \$10 for course materials.*

HORSEPACKING: The Nez Perce Trail - Mirror Plateau: 726 **July 28-Aug 1** (see pg 11)



Long Lake, Beartooths by Alan McKnight.

OBSERVING YELLOWSTONE WITH THE ARTIST'S EYE: 727 **New**

July 29-August 2 \$220 (Member's fee \$210)

Location: Lamar - Buffalo Ranch Limit: 15

Instructor: Alan McKnight

In this course we will strive for freshness in drawing and painting outdoors in Yellowstone. We will search for original motifs and work on form, composition, values, and color. The goal will be to communicate through our art our own unique relationship to the land, to its plant and animal life, and even to its other visitors. We will use sketchbooks to collect our ideas and organize them. Then we will work on our final drawings or paintings on site, continuing to gather observations as the picture develops. When we return to the Institute headquarters, there will be space and time for further critiques and final touches on our work. Choice of medium is up to the student, but remember that portability is crucial as we will attempt to work away from roads. Suggestions on what to bring will be sent to each person who registers.

YELLOWSTONE'S WAYSIDE HISTORY: 728

July 31 - Aug 2 \$135 (Member's fee \$125)

Location: Lamar - Buffalo Ranch Limit: 25

Instructor: Aubrey L. Haines

Students in this course will examine sites and evidence of Yellowstone's human history along or near the park roads. It will consist of day-long field trips from the Institute and several off-road hikes (none exceeding three miles, round trip), with explanation of the significance of the places visited, both at the sites and while traveling between them. Discussions will cover the whole range of human activity from the prehistoric to the modern uses of the park area. At some locations, the visual perception will be augmented by the use of early photographs.

INTERPRETING YELLOWSTONE WITH "RANGER TED": 729 (see pg 10)

July 31 - Aug 2

BACKPACKING THE BEARTOOTH:
THE "LEAVE NO TRACE" WAY: 730

July 31 - Aug 4 \$250 (Member's fee \$240)

Location: Beartooth Wilderness Limit: 10

Instructor: Michael Bartley

This five day course is for intermediate backpackers

who wish to explore some of the most spectacular and rugged backcountry in the Greater Yellowstone Ecosystem. Besides the sheer joy of being immersed in wilderness, the main goal of this journey will be to provide the student with the principles, theories and skills of Leave No Trace (LNT). We will build upon the minimum impact techniques developed by the National Outdoor Leadership School in conjunction with the federal land use agencies' LNT program. Upon successful completion of this course, the participants will receive certification as "Trainer" of Leave No Trace. It is our hope that you will share your LNT knowledge and skills with other backcountry users in both formal and informal settings. Other ways in which you can participate in the Leave No Trace program will be discussed during the trip. In addition to LNT, there will be ample time to augment your backcountry skills and learn more about the region's natural history. If you have minimal experience but are interested in taking this course, please contact the Institute office for more detailed information on the physical requirements of this course. *Participants provide their own backpacking gear and food. A complete equipment list will be provided in the student packet.*

HORSEPACKING: Trapper Trails Through the Thoroughfare: 801 August 2-6 (see pg 11)

NATURE DETECTIVE WORKSHOPS: 802 Aug 4
Water Bugs & Butterflies (Ages 9-10) (see pg 9)

YELLOWSTONE BEFORE THE TOURISTS:
PREHISTORIC PEOPLE OF THE PARK: 803
August 4-6 \$135 (Member's fee \$125)
Location: Lamar - Buffalo Ranch Limit: 15
Instructor: Susan Hughes, Ph.D.

For at least 10,000 years, Native Americans have visited the greater Yellowstone area. Not only was it a summer playground for indigenous mountain cultures, but also a corridor for travelers between the Plains and Great Basin. Resources such as obsidian, edible plants, fish, and game were important drawing cards. In a field setting, we will examine the prehistoric people who inhabited the park area, clues of their presence, and how archaeologists study these clues. Field trips will be taken to Obsidian Cliff, the Bannock Trail, and other sites in and around the park.



FLY FISHING THE CATCH-AND-RELEASE WAY**August 4-6 Less experienced: 804 Limit: 8****August 11-13 More experienced: 810 Limit: 9****\$170 (Member's fee \$160)****Location: Lamar - Buffalo Ranch****Instructor: Richard Parks**

Both sessions of this course will emphasize the special nature of Yellowstone fishing--its abundance of native fish and the special regulations and fishing philosophies which have enabled park managers to protect and maintain a sport fishing resource. The course for less experienced persons will concentrate on the basics and is intended for those who have progressed far enough to purchase their own equipment but who have not spent much time actually fly fishing. About half the course time in this first session will be spent away from the water practicing casting and other techniques. During the second and third days, the instructor will work with half of the group each day on the stream. He will be available each evening for discussion. The limited enrollment will allow time for the instructor to work with each person one-to-one. Students should be aware the Yellowstone River in the park lies above 7,000 feet in altitude and neither the stream banks nor their approaches are flat. Some hiking and climbing will be required.

The session for the more experienced is for persons who have mastered the basics and will focus almost exclusively on fishing Yellowstone's waters. The instructor will act primarily as a resource person in assisting participants in polishing their skills. Most instruction will be on an individual basis or in small groups. During the two days you are not having the intensive instruction, you will practice on your own and meet with the group for morning and evening discussions.

**HORSEPACKING: Washburn Expedition -
Yellowstone & Heart Lakes: 805 August 6-10
(see pg 11)**

YELLOWSTONE STREAMS THROUGH THE EYES OF A TROUT: 806**August 7-9 \$135 (Member's fee \$125)****Location: Lamar - Buffalo Ranch Limit: 12****Credit available: U, 1 sem hour, ISU****Instructor: Jack Griffith, Ph.D.**

This class is an introduction to "fishwatching" for anglers and others interested in learning about the behavior of stream dwelling trout and the ways in which they are adapted to their environment. Discussions will focus on diet, habitat use, and sensory perception of trout in Yellowstone streams and will include life histories of the species important in the park and factors affecting their populations. On one field trip students will have the opportunity to don wet suits and directly observe fish behavior.

BACKPACKING YELLOWSTONE: ALONG THE BUFFALO PLATEAU (1st of a series): 807 New**August 7-11 \$250 (Member's fee \$240)****Location: Hellroaring Creek Limit: 10****Instructor: Michael Bartley**

This five day backpack will take you into grand country

north of the Yellowstone River. From Hellroaring Creek along the Buffalo Plateau to Slough Creek, the journey will take you through open sagebrush slopes up through forests dominated by Douglas fir to beautiful subalpine meadows. There will be a daily class on a variety of subjects including the region's natural history, ecosystems and biodiversity, current park management, and wilderness ethics. Throughout the week we will be practicing the principles and skills of "Leave No Trace" camping and travel. Some of the country through which we will travel is seldom visited. The trail can be rugged. This hike is geared toward intermediate backpackers. Hikers with little experience should contact the Institute for more information.

This five day hike is the first in a series of four, week long backpacks to be offered each year within Yellowstone National Park. Each trip will highlight a unique ecotype within the larger ecosystem that is known as Greater Yellowstone. Each hike will focus on Yellowstone Park with varying amounts of time spent in the surrounding wilderness areas. Our goal is to take you on a journey of discovery--a discovery of the land ranging from high mountains to broad valleys, from lodgepole forest to backcountry geyser basins, to a seldom visited land known as "waterfalls country." And perhaps, due to the uniqueness of this land and of backcountry travel, we may even discover something new inside ourselves. Join us on one or all of the series and see what few have seen in Yellowstone National Park.

CARNIVORES OF THE GREATER YELLOWSTONE ECOSYSTEM: 808**August 7-11 \$220 (Member's fee \$210)****Location: Lamar - Buffalo Ranch Limit: 15****Credit available: U or G, 2 sem hours, ISU****Instructor: Tim Clark, Ph.D.**

This class provides an introduction to the carnivores of the Greater Yellowstone Ecosystem and their management. Grizzly bears, black bears, wolves, coyotes, foxes, mountain lions, lynx, bobcats, wolverines, otters, fisher, badgers, marten, black-footed ferrets, weasels, and related species reside in the Greater Yellowstone Ecosystem. These species are generally secretive and occur at low densities, so it is unlikely we will see many of them, except for coyotes, badgers, and a few others. Some species are listed as threatened or endangered under the Endangered Species Act. The history, scientific research, and relationships of carnivores to humans will be examined. Small population biology and management (e.g., population viability assessment) will be reviewed. The conservation and management of grizzly bears and wolves are currently the focus of much attention, and this will be reflected in the class. Also, current and historic agency management and regional and national policy will be examined. It is only from this larger historic and policy context that current management and future trends can be understood.

The course will feature guest speakers, lectures, readings, videos, extensive discussion and field trips to the habitats used by many of these species. This course is designed for beginners and advanced students.

1995 SUMMER FIELD COURSES

AUGUST- SEPTEMBER

FAMILY DAYS IN THE THERMAL BASINS: 809

Aug 8-10

Adult - \$125 (Member's fee \$120)

Child - \$ 65 (Member's fee \$ 60)

Location: Madison Campground Limit: 20

Instructors: Sandra Nykerk & Jim Garry

The thermal areas of Yellowstone are unique in the world for their number and diversity. For three days, this family class will explore the thermal basins of Yellowstone, gaining an understanding of the geology and ecological systems which make these features possible. We will spend time at many of the thermal areas both on and off the beaten path, including Old Faithful, Norris, and Mammoth. Both campsite activities and field trips will be paced for a family experience and will allow time to enjoy all of Yellowstone's natural history, including wildlife and botany. Critter watching at dawn will be an option for class participants, and an evening campfire storytelling session will introduce the mythology and folklore of the Yellowstone country.

Class will be based at the Madison Campground (including field lunches). Children in this course should be at least six years of age. Class begins at 9:00 am on August 8. Participants will carpool for field trips. *Families who camp must secure their own campsites early in the day or make reservations through TW Recreational Services at (307)344-7311. Participants must provide their own camping equipment and food, including field lunches.*

FLY FISHING: MORE EXPERIENCED: 810

August 11-13 (see pg 17)

EPISODIC HISTORY OF YELLOWSTONE LAKE: 811

August 12-13

\$95 (Member's fee \$85)

Location: Yellowstone Lake Area Limit: 15

Credit available: U, 1 sem hour, MSU

Instructor: Wayne Hamilton, Ph.D.

Since the melting of glacial ice at Yellowstone Lake about 15,000 years ago, the level of the lake has been dominantly controlled by bedrock at LeHardy Rapids--the effective outlet located at the midline of the Yellowstone caldera. Abandoned shorelines of the lake, like bathtub rings, are found as much as 30 meters above and below the present shore. These elevated and submerged shorelines reveal the complex history of caldera unrest atop the largest active volcano in the Western Hemisphere.

By visiting several lakeshore localities each day and evaluating the sedimentary record in detail, you will see and come to understand evidence of early ice margins, stream deltas, abandoned beaches, deepwater deposits, 13,000 year old shoreline vegetation, buried soils, recent volcanic ash, breccias from steam explosions, and much more. You will be joining an ongoing investigation, so you will be personally involved in making new discoveries.

FINDING YOUR OWN VOICE: A WILDERNESS

WRITING EXPERIENCE: 812

August 14-18

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

Location: Lamar - Buffalo Ranch Limit: 15

Instructors: Deborah M. Bond, Ph.D. & Dorothy Hinshaw Patent, Ph.D.

This four day adventure is for anyone who loves nature and likes to write. The course goals are to increase

powers of observation, improve descriptive writing skills, deepen personal trust and confidence, and stimulate creativity. Designed to expand our awareness of the natural world in Yellowstone as well as deepen our appreciation of the wildness within ourselves, this class will combine writing and experiential exercises, both indoors and outside, with group interaction and guided field trips. We will spend time at a variety of special spots not often found by the average visitor. There will be ample time to write and encouragement to share and learn from each other. This course begins at 7:00 pm, Monday, August 14.

GEOLOGY OF THE YELLOWSTONE COUNTRY: 813

Aug 14-18

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

Location: Lamar - Buffalo Ranch Limit: 15

Credit available: U or G, 1 sem hour, U of WY or U of MT

Instructor: David Fountain, Ph.D.

This course, conducted in the natural field laboratory of Yellowstone Park, will concentrate on the geological evolution of the area. Daily travel through the park will introduce you in depth to such topics as volcanic rocks and processes, glaciation, earthquakes and faulting, hydrothermal features, sedimentary rocks and processes, metamorphism and tectonics. Completion of an introductory geology course is preferable but not required.



Photo by Don Nelson

FAMILY HORSEPACKING: Bechler River Country of Yellowstone: 814

August 16-19 (see pg 11)

HORSEPACKING: Adventure in the Tetons: 815

August 16-20 (see pg 11)

LLAMA TREK: Our Wonderland Heritage: 816

August 16-20 (see pg 11)

New

HORSEPACKING: The Gallatin Mountains -

Yellowstone's Conservation Role: 817 August 23-27 (see pg 11)

ART & NATURE: 901

New

September 6-10

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

Location: Mammoth Hot Springs Limit: 15

Instructor: Frank LaLumia

This class combines the joys of hiking in Yellowstone National Park and watercoloring on location. The theme of the class is to bring art into one's everyday life. We will simplify the logistics, limiting our gear to a day pack, as we head off in search of Yellowstone's flora, fauna, and landscape. Individual attention will be offered to students in the form of daily watercolor demonstrations as well as help and advice in dealing with the unique problems of working in the field. Our workshop goal is to make this process simple, more accessible, and more FUN! *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

THE FLIGHT OF THE NEZ PERCE THROUGH YELLOWSTONE: 1877: 902

September 7-8 \$95 (Member's fee \$85)
Location: Mammoth Hot Springs Limit: 15
Instructor: Bill Lang, Ph.D.

This course will trace the path of the fleeing Nez Perce as they raced to sanctuary in Canada. Pursued by the army in the summer of 1877, they passed through some of the roughest terrain in Yellowstone Park. Readings, slides, and on-site visits to historic points along their route will be included in the course. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

AUTUMN CANOEING IN YELLOWSTONE: 903 New

September 8-11 \$300 (Member's fee \$290)
Location: Shoshone Lake, Yellowstone Backcountry
Credit available: U or G, 1 sem hour, RC/BYU
Instructor: Scott Wood Limit: 12

This four day canoe trip across Lewis Lake and into magnificent Shoshone Lake, the largest wilderness lake in the lower 48, will provide interpretation of the lake environment and instruction on low-impact backcountry camping techniques. Canoeing skills such as strokes, portaging, safety and tripping (how to pack a canoe) will be studied and American Red Cross canoeing certification may be earned if desired. Class will start from the Lewis Lake campground boat dock on the morning of September 8. *Fee includes all canoeing equipment, group camping gear, and food.*

THE LAST OF THE WILD RIVERS: 904

September 9-10 \$120 (Member's fee \$110)
Location: Mammoth Hot Springs Limit: 15
Instructor: Bill Lang, Ph.D.

The Yellowstone River is the last free-flowing major river in the United States. While other great streams have been blocked by dams, the Yellowstone rolls as it has for generations. A large measure of the history of Wyoming and Montana is connected to the Yellowstone, from the first inhabitants 10,000 years ago to 20th century developers who wanted the river's copious water. Part wilderness stream, fly fisherman's haven and emigrants' route, the Yellowstone has a history unlike any other river in the American West. This course will introduce students to the many faces of the Yellowstone and explore its natural and human ecology in light of historical developments. *A half day raft trip down the Yellowstone River from Gardiner, Montana, is included in the tuition. Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

AUTUMN WILDLIFE PHOTOGRAPHY: 905

September 11-15 \$260 (Member's fee \$250)
Location: Mammoth Hot Springs Limit: 15
Instructor: Linda DeLay-Joseph

In this four day class, you will have a chance to photograph Yellowstone's bountiful and diverse wildlife. Based out of Mammoth and scheduled during the height of the elk rut, students will have the opportunity to observe and photograph bugling and breeding behavior. Several different photographic techniques and wildlife approaches will be discussed and utilized during this course as they apply to wildlife ethics and sensitivity to the environment. The basic thrust of the course is towards exploring and developing a "creative eye"; to not just photograph an

animal, but to make a statement with your image, whether dramatic or subtle. Composition, lighting, filters and equipment will be addressed through discussions, slides, and video. Class will begin at 4:00 pm on September 11. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

WILDLIFE OBSERVATION - FALL: 906

September 16-19 \$150 (Member's fee \$140)
Location: Mammoth Hot Springs Limit: 15
Instructor: Gene Ball

Against the backdrop of changing colors, fall stages a variety of interesting wildlife activities. Field observation will be the major goal and activity of this introduction to the pre-winter park. 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, short midday hikes, and programs on various wildlife topics plus related issues and controversies. The course will begin at 2:00 pm on September 16 and run until 2:00 pm on September 19. The opening session will cover selection and use of binoculars and spotting scopes for quality wildlife observation. The course will headquarter in the Mammoth/Gardiner area. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

GRAND TETON PHOTOGRAPHY: 907 New

September 20-23 \$195 (Member's fee \$185)
Location: Grand Teton National Park Limit: 15
Instructor: Pete Houdeshel

Lodged in rustic cabins along the shores of Jackson Lake at the base of the Grand Tetons, this course will focus on some of the West's most dramatic scenes, nestled in the Yellowstone ecosystem. September in the Tetons means bugling elk, uncrowded trails and rich fall colors highlighted by fresh dustings of snow on the 14,000 foot peaks. Though most of the class time will be spent in the field, lively slide presentations will provide guidance for producing great photography. Special emphasis will be spent on composition, lens selection and enjoying the outdoors with a camera. Class will begin at 7:00 pm on September 20. *Participants need to secure their own lodging. Class will base out of the Signal Mountain Lodge in Grand Teton National Park. Information on lodging can be requested from the registrar.*

FLY FISHING IN THE FALL: 908

September 22-24 \$170 (Member's fee \$160)
Location: Mammoth Hot Springs Limit: 9
Instructor: Richard Parks

This fall course is based out of the Mammoth Hot Springs/Gardiner area and is aimed at an audience of people who have some experience with fly fishing, but want to expand and polish their skills. Students 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. The class will divide into three groups, with intense one-on-one instruction for each group on one day. During the two days you are not having the intensive instruction, you will practice on your own and meet with the group for morning and evening discussions. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

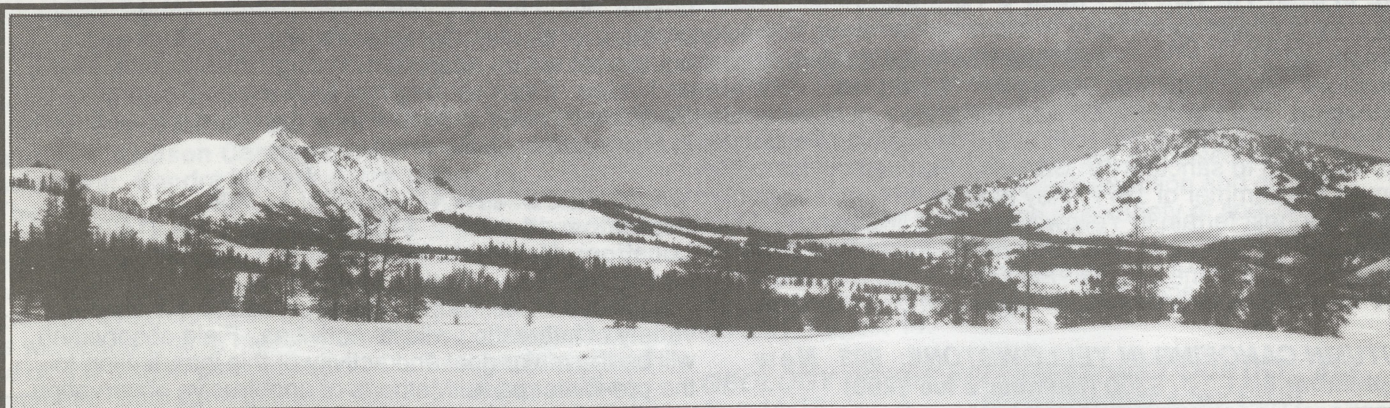


Photo by Don Nelson

A Winter Welcome

As the seasons change and winter moves in, Yellowstone country is transformed into a beautiful snowscape, offering the visitor rewarding experiences available to relatively few people. Deep, dry powder snow smoothes the terrain into a gently rolling world of nearly perfect cross-country skiing. Elk and bison congregate for easy viewing, and thermal basins come alive with billowing steam and ghost trees.

This fresh, invigorating winter world creates a whole new place and time for nature study, photography, and backcountry adventure. The Yellowstone Institute conducts courses this time of year so that you can learn about this wonderful season and all it has to offer. We have several courses designed to meet a variety of interests and preferences, whether you lean toward staying within easy reach of the heated cabins at the Buffalo Ranch, prefer the challenge of backcountry travel and snow shelter camping, or like the idea of compromising with the Canyon yurt camp.

Institute Winter courses provide you with an opportunity to learn about this special place in a stimulating, fun, and safe environment, full of the camaraderie that comes so easily this time of year.

TRACKING YELLOWSTONE'S WOLVES: 301 New
March 17-19, 1995 \$110 (Member's fee \$100)
Location: Lamar - Buffalo Ranch Limit: 15
Instructor: James Halfpenny, Ph.D.

The howl of the gray wolf may soon echo over the Yellowstone Institute field station at Lamar. Wolves are on their way into Yellowstone! If the reintroduction is not slowed by legal maneuvering, wolves could be in the park by spring. Two of the reintroduction sites will be in the Lamar Valley. By January, the wolves may have been released. Will they stay? Head north? The situation is dynamic and we do not know where it will be by March, but wolves may be hunting the Lamar Valley.

Join Jim at Lamar for a three day update on the wolf reintroduction and study of wolf ecology. Jim will cover how to identify wolf tracks from those of dogs and coyotes, how to understand wolf gaits, and how to read stories in their trails. We will practice tracking skills on wolf trails (coyote trails if we have to) learning their behavior, social structure, and ecology. With luck we may even explore a kill site. Yellowstone National Park wolf biologists will be invited to lecture evenings. And, with luck, we'll listen to the wolves howl at night! All this will be done without interfering with the wolves themselves.

Program starts at 7:30 pm on March 17, but come early for an informal, potluck, gossipy supper--perhaps with visiting wolf biologists. There will be evening lectures on Friday and Saturday. Mornings will be spent with lectures followed by field sessions. Bring field lunches and lots of trail food as we will not waste time staying inside. Field sessions will be on cross-country skis or snowshoes (bring your own). We may ski several miles each day.

Jim has tracked wolves in 14 locations across North American and also in Red China. He has organized and taught wolf ecology classes for the public in Ely, Nemadji National Forest and along the shores of Lake Superior in Minnesota and in Banff and Jasper National Parks of Canada. Jim has also taught professional seminars and field verification courses including wolves for the Forest Service, Park Service, and Departments of Natural Resources in Colorado, Michigan, Oregon, Utah, Wisconsin, and Wyoming and for the Timber Wolf Alliance and Timber Wolf Informational Network. *Fee includes \$10 for course materials. Participants may stay at the Lamar cabins--see information on cabins on pg 22. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east.*



Photo by Gene Ball

WINTER WILDLIFE & NATURE PHOTOGRAPHY: 101

Jan 12-15, 1996 \$265 (Member's fee \$255)

Location: Lamar - Buffalo Ranch Limit: 15

Instructor: Linda DeLay-Joseph

While based out of the new, heated cabins at the Lamar Buffalo Ranch, students will have four days to photograph and explore the dramatic, subtle and mysterious moods of Yellowstone's snowscapes, as well as the wildlife that abound in the northern part of the park. Bighorn sheep, elk, bison, and waterfowl congregate in the area, making observation and photography fairly easy. Learning winter photographic techniques, fine-tuning technical aspects, and exploring new ways of thinking, seeing and photographing will be the emphasis of this course. Throughout the course, students will travel by ski, van or snowcoach to various locations. *A snow coach trip to the Grand Canyon of the Yellowstone is included in the tuition fee. Participants may stay at the Lamar cabins--see information on cabins on pg 22. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east.*



Photo by Pam Gontz

BACKCOUNTRY BY SKI: 102

Jan 12-15, 1996 \$250 (Member's fee \$240)

Location: Fawn Creek, Yellowstone Backcountry
Instructor: Scott Wood Limit: 10

Winter in the backcountry provides a challenging yet intensely beautiful and rewarding experience. Taking place over the Martin Luther King holiday weekend, the first night of this course will be held in a large cabin near West Yellowstone, Montana, allowing the group to get acquainted and organized. The next morning you depart by ski into the Fawn Creek backcountry for two days and two nights. Plan on a two mile ski with your pack to and from the campsite. There will be an opportunity to go for a seven mile day ski tour the following day. A wide range of winter skills will be taught in the outdoor setting, including travel over snow, food preparation, snow shelter building, cold weather clothing, and the hazards of cold environments. Pre-trip readings, detailed equipment lists and personal contact with the instructor combine to make this course a fun and safe experience. Ski experience is recommended, but not required. Due to the cold, good physical condition is required. *Lodging in the cabin the first night, tents and food are provided as part of the course fee. You may rent other equipment (skis, boots, poles, packs, sleeping bags and pads) from the instructor for \$30 or provide your own, if approved by the instructor.*

HOW MAMMALS SURVIVE WINTER: 103

January 27-28, 1996 \$95 (Member's fee \$85)

Location: Lamar - Buffalo Ranch Limit: 15

Instructor: James Halfpenny, Ph.D.

The snows of Yellowstone make winter a beautiful season. For the mammals, however, it is a time of harsh reality, with scarce food, deep snow, and raging blizzards. In this class you will learn how mammals survive winter. We will explore the subnivean (below snow) world of mice, voles, and weasels and study the scavenger food web supporting coyotes and mountain lions. Analysis of the nutritional needs and energy balance of antelope, deer, elk, and eagles will be examined. Morning lectures will be followed by afternoon drives to observe and photograph animals in winter. Short field exercises to explore the subnivean and track mammals will necessitate warm clothes. No skiing or snowshoeing will be necessary for this program. *Participants may stay at the Lamar cabins--see information on cabins on pg 22. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east.*

THE WINTER EXPERIENCE:**ENJOYING ITS COMFORTS: 104** **New**

Jan 30 - Feb 1, 1996 \$135 (Member's fee \$125)

Location: Lamar - Buffalo Ranch Limit: 15

Instructor: Don Nelson

The world of winter can present difficult challenges, but to the prepared it can provide a place of comfort, beauty, and exhilaration. This course for newcomers to the winter landscape will introduce you to the tools and techniques to thoroughly prepare you for enjoyable winter outings. Classroom discussions of equipment and natural history topics will be interspersed with skiing and field demonstrations, explorations of nature in winter, snow physics study, safety and risk assessment, navigation, avalanches, snow shelters, and building a winter camp.

Evening readings around the woodstove will cap off the day before heading off to our new, heated cabins.

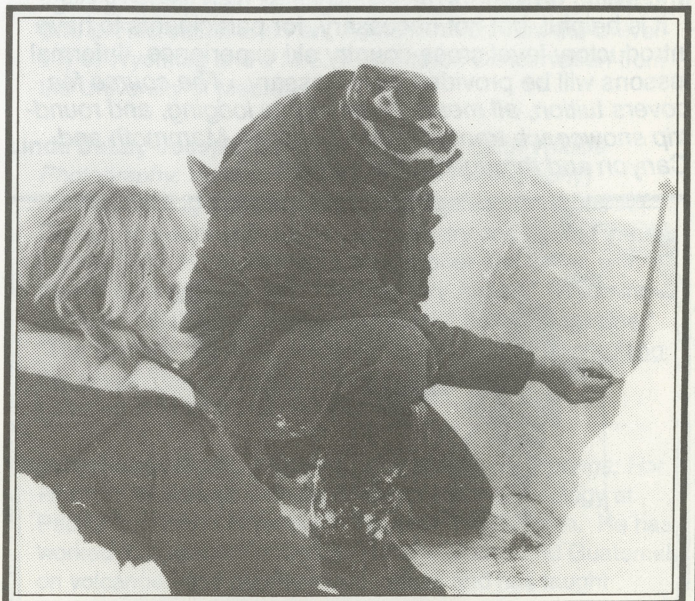


Photo by Pam Gontz

THE TRADITION OF WINTER STORYTELLING: 201**February 2-4, 1996 \$135 (Member's fee \$125)****Location: Lamar - Buffalo Ranch****Limit: 15****Instructors: Jim Garry****New**

"There is a season unto everything under heaven," so says one of our oldest written collections of traditional stories. Winter is the season for storytelling. Coyote tales, and many others like them around the world, are traditionally told only during the winter. Now, with "the white land locked tight as a drum," the nights stretch long and cold, and our pace slows enough to give time for reflection. This is the season for the stories that require time to tell and stillness to think on. It is the obvious time for a storytelling class. A time not only to tell stories but to figure out what to tell and how to tell them. Besides, the Lamar Valley and the whole of the Yellowstone Country are the sort of places where stories evolve.

Bring your stories and/or your imagination to the Buffalo Ranch for a session of stories, of discussions about stories, and analysis of stories.

YELLOWSTONE'S WINTER WORLD: 202**February 16-19, 1996 \$450 (Member's fee \$440)****Location: Canyon Area****Limit: 10****Instructors: Don Nelson & Michael Bartley**

This course starts at Mammoth, but is based out of the remote Canyon yurt camp. Immersed in a winter environment, this course is a detailed introduction to the field of snow ecology. Through "classroom" discussions and interpretive ski tours, you will learn about snow as a substance and how it affects the lives of animals and plants, how and where snow develops and why it changes over time, how avalanches influence backcountry travel, and how to maintain human comfort in winter climates. Most of each day will be spent on skis in the field analyzing snowpits, building a quinzhee snow shelter, and interpreting changes in plants and animals. You can expect a maximum of three to seven miles of skiing per day. There will also be unstructured time for exploring and skiing on your own.

It is helpful, but not necessary, for participants to have introductory level cross-country ski experience. Informal lessons will be provided as necessary. *The course fee covers tuition, all meals, three nights lodging, and round-trip snowcoach transportation between Mammoth and Canyon and throughout the course.*



Photo by Don Nelson

The Buffalo Ranch - Lamar Valley

For many years the home of our summer program, the Buffalo Ranch, is now also the home of many of our winter course offerings.

Located amidst the beautiful elk and bison wintering grounds, the ranch's new, heated sleeping cabins provide a cozy rest after a day in the field. An evening gathering around the woodstove in the director's cabin, along with the fully equipped kitchen and classroom building, create a relaxed, retreat-like setting in which to learn about Yellowstone in winter; and still at a very affordable cost.

The road from Mammoth to Cooke City is open throughout the winter to wheeled vehicles, providing easy access to our facility, located 11 miles east of Tower Junction.

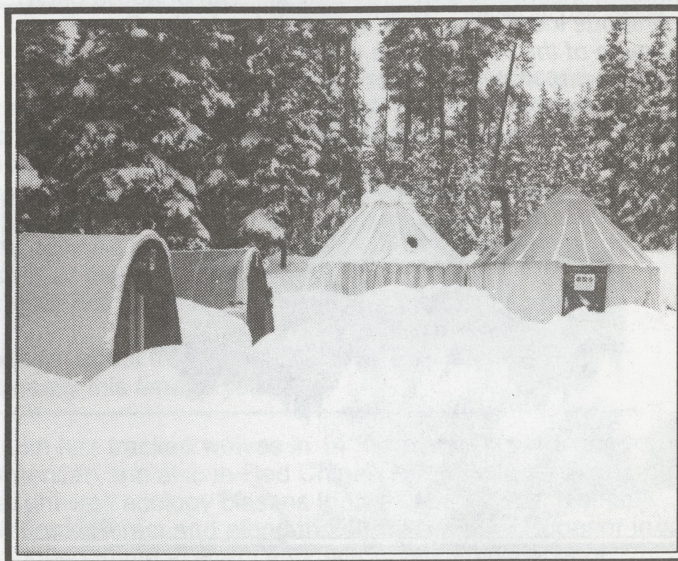


Photo by Don Nelson

Canyon Yurt Camp

The Yellowstone Institute will conduct one of its winter courses, "Yellowstone's Winter World," in a very unique setting and situation at Canyon Village, near the center of Yellowstone National Park. During the summer months the Canyon area is one of the busiest in the park, attracting hundreds of thousands of people to the Grand Canyon of the Yellowstone and the magnificent Upper and Lower Falls of the Yellowstone River. In the winter, however, without the usual accommodations available, the area becomes a quiet and peaceful haven for winter enthusiasts.

In conjunction with Yellowstone Expeditions, a private concession from West Yellowstone, this extraordinary experience begins with a 35 mile snowcoach ride from Mammoth Hot Springs to Canyon Village. At the destination you will find your rustic lodging and eating accommodations. The kitchen and dining facility consists of two heated yurts - rigid, yet portable shelters used by nomadic people. Sleeping units for two people are simple, yet comfortably heated wooden and canvas structures on platforms. There is a heated pit toilet on location and also a park restroom with running water within one-fourth of a mile.

Food, bedding (sleeping bags), and snow coach transportation are included in the tuition fee.

INSTRUCTOR PROFILES

Elaine Anderson, Ph.D., (*Bears: Bones, Signs & Stories; The Evolution, Ecology, & Future of the Wolf Family*) is a research associate in zoology at the Denver Museum of Natural History and co-author of Pleistocene Mammals of North America. She teaches comparative mammalian osteology at the museum and is writing a book on osteology. Research interests include fossil and recent carnivores, Pleistocene faunas, osteology and biogeography.

Robert Anderson, Ph.D., (*Butterflies of Greater Yellowstone; Aquatic Insects of Yellowstone*) is an entomologist and professor of biological sciences at Idaho State University. In addition to general and medical entomology, he teaches courses in general and invertebrate zoology, and parasitology. He has published works in applied ecology and medical entomology, and most recently completed research on the biology and ecology of the Idaho sand dunes tiger beetle, and a video on The Chirping Crickets.

Gene Ball (*Wildlife Observation - Spring; Wildlife Observation - Fall*) was director of the Yellowstone Association and Institute from 1985-88. He now lives in Meeteetse, Wyoming, and serves as a free-lance writer and educator for a variety of organizations throughout the West.

Michael Bartley (*Backpacking in Grizzly Country; Backpacking the Beartooths: The "Leave No Trace" Way; Backpacking Yellowstone: Along the Buffalo Plateau; Yellowstone's Winter World*) is a former Field Manager of the Yellowstone Institute. He is certified as a Master of the National Leave No Trace (LNT) program. He teaches both summer and winter backcountry courses for the Institute. A graduate of the National Outdoor Leadership School and the NOLS Master's LNT course, he has led numerous hikes in the Grand Canyon and Rocky Mountains. A historian, naturalist, ursophile, and long time backpacker, he combines a passion for wilderness with practical know-how in sharing his knowledge of the Yellowstone region.

Deborah M. Bond, Ph.D., (*Finding Your Own Voice: A Wilderness Writing Experience*) former psychotherapist, now artist/writer/ecopsychologist facilitates our ability to connect with the wisdom of the natural world, both within and without. She inspires creativity in a variety of settings, offers writing workshops for Hellgate Writers, and seminars on cosmology and ecopsychology for the Jeannette Rankin Peace Resource Center and the Friends of Jung. Her watercolors accompanied by her writing have been shown in galleries in northwest Montana.

Kathryn A. Bulinski (*Issues & Ethics*) received her B.S. in range and wildland science from the University of California, Davis, and has over 20 years' work experience in federal natural resource management for the Forest Service and Bureau of Land Management in several western states. She currently serves as Lands Specialist for the BLM in Durango, Colorado, developing environmental mitigation for projects on public lands, from desert to alpine (14,000 foot) communities. She serves on the La Plata Open Space Conservancy, and is an avid hiker and cross-country skier.

Tom Butts (*Bats of Yellowstone Park and Vicinity*) is a consultant wildlife biologist, writer, and educator. After receiving his M.S. in wildlife biology and management from the University of Montana, he worked nearly 10 years as a field biologist and a program director for the State of Montana before starting his own business. He has conducted bat studies for state and federal agencies and private corporations in Montana, Wyoming, and Nevada, and loves to introduce others to these fascinating creatures of the night.

Richard Clark, Ph.D., (*Wonderland Horsepacking Adventures*) is a native of the upper Snake River Valley on the southwest corner of Yellowstone where he has spent a good share of his life acquainting himself with the wildlands of Yellowstone and the Tetons. He has guided professionally for over 35 years and has assisted in the creation of the Professional Guide Institute emphasizing interpretation as a tool for enhancing the backcountry experience. On the off season Dick is a faculty member at Ricks College in Rexburg, Idaho with formal training in biology, botany, and conservation.

Tim Clark, Ph.D., (*Carnivores of the Greater Yellowstone Ecosystem*) is Professor Adjunct, Yale University and on the Board of Directors of the Northern Rockies Conservation Cooperative, Jackson, Wyoming. He has taught and carried out ecological and policy research for over 20 years in the GYE and internationally. He is interested in holistic, interdisciplinary problem solving in the conservation of species and ecosystems. He has published over 200 papers and several books and monographs. He is a former director of the Yellowstone Institute and has taught there since 1976.

Sue Consolo Murphy (*Grizzly Bear Ecology & Management*) is a resource management specialist for Yellowstone Park. Since 1982 she has worked as a ranger-naturalist and resource manager, specializing in bear management and park planning. She works closely with scientists from the Interagency Grizzly Bear Study Team and with the Interagency Grizzly Bear Management Subcommittee. She has a B.S. in Recreation and Park Administration from the University of Wyoming and a M.S. in Resource Conservation from the University of Montana.

Linda DeLay-Joseph, B.S. and B.F.A. (*Autumn Wildlife Photography; Winter Wildlife & Nature Photography*) teaches photography in California at the Palos Verdes Art Center, Museum of Science and Industry and Irvine Fine Art Center. She is a published photographer and writer, with recent work published in "The Territory Ahead," "Wyoming Wildlife," "SRF Engagement Calendar," "Zoom Magazine," "The Explorer," and a photographer's guide, Photographing the Ghost Town of Bodie. Her work is represented by galleries in Montana and California.

Duncan Foley, Ph.D., (*Geysers, Mudpots, & Hot Springs; Hot Rocks, Hot Waters & Great Shakes*) teaches geology at Pacific Lutheran University in Tacoma, Washington. He has worked throughout the western United States and Guatemala on volcanoes and geothermal systems and has taught Institute classes for the past 16 years.

INSTRUCTOR PROFILES

Richard Follett (*Birding Yellowstone; Birds of Yellowstone*) is author of Birds of Yellowstone and Grand Teton National Parks and Birds of Crater Lake National Park. He is a specialist on the birds of Yellowstone where he worked seven years as a ranger-naturalist and compiled the park's bird checklist.

David Fountain, Ph.D., (*Geology of the Yellowstone Country*) 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 is 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 Rockies.

Fox Creek Pack Station, Inc. Staff (*Wonderland Horsepacking Adventures*) Owned and operated by Richard Clark and family, Fox Creek Pack Station, Inc. has earned a reputation for care of the land, interpretation skills as a tool of the backcountry guide, providing quality experiences through participation, and using education as a means of insuring safety of participants. All staff are members of the Professional Guide Institute and have been specially trained to meet the goals of the business. All staff have either completed or are in the process of completing formal college training.

Jim Garry (*Bears: Folklore & Biology; Bears: Bones, Signs & Stories; Family Days at Pebble Creek; Family Days in the Thermal Basins; The Tradition of Winter Storytelling*) is both a naturalist and a folklorist. His degree as a naturalist is from the University of Michigan as is his M.S. in environmental communications. He has worked on numerous wildlife research projects, primarily for Texas Parks and Wildlife. He is the founding director of Great Plains Lore and Natural History, Inc. Jim is the author of This Ol' Drought Ain't Broke Us Yet (But We're All Bent Pretty Bad) and a newly released book entitled The First Liar Never Has a Chance.

John Good (*Fire, Ice & Fossil Forests*) was chief naturalist of Yellowstone National Park for six years. During his distinguished career in the National Park Service he served as superintendent of Acadia and Everglades National Parks and assistant superintendent of Yosemite. He holds a Masters Degree in Geology.

Jack Griffith, Ph.D., (*Yellowstone Streams through the Eyes of a Trout*) is a professor of biological sciences at Idaho State University. His research specialty is the ecology of trout in streams such as Idaho's Henry's Fork and Silver Creek and in the park, the Yellowstone and the Firehole River.

Aubrey L. Haines (*Yellowstone's Wayside History*) is a retired National Park Service historian and is author of a two volume history, The Yellowstone Story, and a number of other books and articles on the park. His working familiarity with the area covered the period from 1938 to retirement in 1969.

"We stopped at this place and for my own part I almost wished I could spend the remainder of my days in a place like this where happiness and contentment seemed to reign in wild romantic splendor surrounded by majestic battlements which seemed to support the heavens and shut out all hostile intruders."

--Osborne Russell, 1835 in Journal of a Trapper

James Halfpenny, Ph.D., (*Mammal Tracking: Interpreting Tracks, Scat & Other Sign; Bears: Bones, Signs & Stories; The Evolution, Ecology, & Future of the Wolf Family; How Mammals Survive Winter; Tracking Yellowstone's Wolves*) is an ecologist and educator. Most recently he was coordinator of the Long-Term Ecological Research Program and Director of the Institute of Arctic and Alpine Research at the University of Colorado. Annually he travels North America studying bears and their sign. He has taught since 1966 in the Greater Yellowstone Ecosystem and is author of A Field Guide to Tracking in North America and Winter: An Ecological Handbook. His research has included expeditions to Antarctica, Canada, China, Greenland, Kenya and Tanzania.

Wayne Hamilton, Ph.D., (*Episodic History of Yellowstone Lake*) is a research geologist with the National Biological Survey in Yellowstone National Park and adjunct assistant professor at Montana State University. His research has involved measuring and mapping the subsurface geothermal systems in boundary areas subject to nearby geothermal development. He is also active in research at Yellowstone Lake, using geologic evidence of changing lake levels to reconstruct a caldera deformation history.

Hannah Hinchman (*The Art of Keeping a Field Journal*) has kept an illustrated journal for 25 years. She has a B.F.A. from the Maine College of Art, shows her watercolor "illuminated journal" pages at various galleries. She has written for a number of publications, including "Sierra" magazine, "High Country News" and "Orion" magazine. Her book, A Life in Hand, Creating the Illuminated Journal, (Peregrine Smith) is in its fourth printing. The Wyoming Arts Council awarded her a 1994 Literary Fellowship.

Dorothy Hinshaw Patent, Ph.D., (*Finding Your Own Voice: Wilderness Writing Experience*) is the author of more than 80 science and nature books for children. She is a recipient of the Eva Gordon Award (American Nature Study Society), Golden Kite Award (Society for Children's Book Writers) and Golden Kite Honor Award. Recently, she has expanded the range of her writing, with the natural world always providing inspiration. Her first fiction was published in spring, 1995.

Pete Houdeshel (*Grand Teton Photography*), a veteran photo workshop and Yellowstone Institute instructor, enjoys sharing his concepts of making pictures with all levels of photographers. His photo accomplishments include publication in many major magazines, such as: "Aloha," "National Geographic Traveler," "Salt Lake City Magazine," "Sunset," "Outdoor & Travel Photography," and "Utah Highways." He has conducted workshops in Arches National Park, along California's Big Sur Coast, New England, throughout the Wasatch Mountains near Salt Lake City, as well as in Yellowstone National Park.

INSTRUCTOR PROFILES

Susan Hughes, Ph.D., (*Yellowstone Before the Tourists: Prehistoric People of the Park*) is a doctoral student at the University of Washington and archaeologist with the Wyoming Bureau of Land Management. She has taught archaeology and geology at Northwest College in Wyoming and conducts ongoing research and field work in Northern Plains prehistory. For her dissertation, she is examining Holocene climatic change and its effect on human adaptations in the Rocky Mountains using faunal bone from Mummy Cave, an important archaeological site within the Greater Yellowstone area.

Debra Ihli (*Nature Detective Workshops*) has taught in both public and private schools over the past 15 years, has a B.A. in sociology and recreation and an M.S. in special education. She is a Montana native with a 10 year old daughter, with love and appreciation for children and the out-of-doors.

Karen Krieger (*Women & Yellowstone - A Historical Perspective*) has her Masters Degree in American studies from Utah State University and works for the Utah Department of Natural Resources directing cultural programs in Utah's State Parks. She has worked in museums (including the Buffalo Bill Historical Center in Cody, Wyoming) and historic sites, published articles on women in wilderness, led outdoor trips for women and conducted nature hikes for children and adults.

Frank LaLumia (*Art & Nature*) is a member of the National Watercolor Society and has been a professional artist for 18 years. He has painted all over the world (with day pack in tow), including painting trips to China, India, Tibet, Guatemala, Nepal, Morocco, Europe, Mexico, and all through the United States and Canada. A feature article in the October 1994 edition of "Southwest Art" describes a recent painting trip to Yellowstone National Park. Mr. LaLumia currently resides in Santa Fe, New Mexico.

Bill Lang, Ph.D., (*The Flight of the Nez Perce Through Yellowstone: 1877; Last of the Wild Rivers*) is director of Center for Columbia River History in Vancouver, Washington. He is a professor of history at Portland University. He has written many articles on Yellowstone history and is co-author of *Montana: Our Land and People* and editor of *The Centennial West*, and *A Columbia River Reader*.

John Martin (*Yellowstone Birds of Prey*) is currently the Chief of the Conservation/Preservation Division at the U.S. Army Dugway Proving Ground, Utah. His research leading to a M.S. in wildlife and range resources was based on northern harrier habitat utilization. He continues to study raptor ecology, habitat use, and their prey in his present position.

Sunny Mavor (*Wild Edible Plants & Medicinal Herbs*) is a practicing medical herbalist in Bozeman, Montana. She is the founder and president of Herbs for Kids, Inc. and travels nationally to teach about the joy and safety of herbal medicine.

Terry McEneaney (*Camping & Birding; Learning Birds by Sound*) is currently the staff ornithologist for Yellowstone

National Park. Prior to his eight years' employment with the National Park Service, he was a wildlife biologist at Red Rock National Wildlife Refuge. He worked for the U.S. Fish & Wildlife Service for 12 years gaining experience in the western United States, Mexico, Canada, and Greenland. 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*.

Alan McKnight (*Observing Yellowstone with the Artist's Eye*) is an alumnus of the Woodstock School of Art in Woodstock, New York, now living in Teton County, Idaho, where he paints, illustrates, and teaches. He has travelled extensively in the Rocky Mountain West, sketching and painting in wilderness settings. His most recent illustrating effort is *The Secrets of the Night*, an astronomy book by Bob Berman, being published by William Morrow in February, 1995.

Linda Miller (*The Wolf's Return - Mythology to Recovery*) is currently the Endangered Species Assistant with the Rocky Mountain Regional office of National Audubon. Linda has been working on wolf recovery issues and education for the past three years and has recently added grizzly bear recovery to her responsibilities. Her background includes Interpretive Naturalist work for the Aspen Center for Environmental Studies and the U.S. Forest Service. She also volunteers as a wildlife rehabilitator and hopes to use her degree in Occupational Therapy to benefit injured/orphaned wolves during the recovery process.

Roy Mink, Ph.D., (*Headwater Watershed Ecology; Hot Rocks, Hot Waters & Great Shakes*) was a manager of geotechnical science with Morrison-Knudsen Engineers and is now Director of the Idaho Water Resource Research Institute with the University of Idaho. Dr. Mink has been working in water quality aspects of several Idaho watersheds and through his position with the Idaho Water Resource Research Institute supports multiple watershed studies throughout Idaho. 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 geothermal programs with the DOE and for a private firm on a geothermal power project in Guatemala.

Don Nelson (*The 24-Hour Experience: An Environmental Encounter; The Winter Experience: Enjoying its Comforts; Yellowstone's Winter World*), the Yellowstone Institute director since 1991, first began taking groups into the backcountry in 1970. He has taught cross-country skiing, snow physics and winter ecology for 20 years for schools and organizations, including the Audubon Society, where he worked for nine years as a regional representative, adult camp director, and instructor.

"I realize my own littleness, my helplessness, my dread exposure to destruction, my inability to cope with or even comprehend the mighty architecture of nature."

-Nathaniel Langford, 1870, upon seeing the Grand Canyon of the Yellowstone River

INSTRUCTOR PROFILES

Sandra Nykerk (*Photographing Nature in Yellowstone Country; Family Days at Pebble Creek; Family Days in the Thermal Basins*), a Texas native, is a naturalist and photographer now living in Gardiner, Montana, on the northern border of Yellowstone National Park. Her images have been published in many calendars, books, and journals. Sandy has been teaching photography and natural history workshops around the country for over fifteen years, and in the Yellowstone area for the past ten years. Also active in environmental issues, she was a member of the board of directors of the Greater Yellowstone Coalition for seven years.

Ted J. Parkinson (*Interpreting Yellowstone with Ranger Ted*) served 37 seasons as a ranger-naturalist in Yellowstone and has delighted thousands of children and adults with his informative, inspiring nature walks and talks. As a special faculty member at Brigham Young University, he has taught environmental biology and natural history. He is the author of the "Ranger Ted" conservation programs presented throughout northern Utah.

Richard Parks (*Fly Fishing the West Side; Fly Fishing: Less Experienced; Fly Fishing: More Experienced; Fly Fishing in the Fall*) is the manager of Parks' Fly Shop, a family business that has been in Montana for over thirty years. Richard is highly respected as a fly tier, a teacher and a river guide and is intimately familiar with Yellowstone's waters. He is also deeply involved in regional resource issues.

Brian Peck (*The Wolf's Return - Mythology to Recovery*) is the Endangered Species Coordinator for National Audubon's Rocky Mountain office and is currently focusing on wolf and grizzly bear recovery programs. Before coming to Audubon he was a Park Ranger and Natural Resource/Education Coordinator for Boulder, Colorado's, Mountain Park system for 21 years. He also spent the winter of 1986-87 tracking and studying wolves around Glacier National Park for the Wolf Ecology Project. Brian has a B.S. in wildlife biology from the University of Massachusetts and Master's degree work in Natural Resource Administration from Colorado State University.

Wayne Phillips (*Wild Edible Plants & Medicinal Herbs; Wildflowers of Yellowstone; Wildflowers of the High Country [Llama Trek]; Alpine Wildflower Walks*) is an ecologist with the U.S. Forest Service on the Lewis and Clark National Forest. His hobbies include ethnobotany, herbalism, wildflower photography and mountaineering. He is intimately familiar with the vegetation of the Greater Yellowstone ecosystem.

Harold Picton, Ph.D., (*Bears: Folklore & Biology*) is a professor of wildlife management at Montana State University. He has directed a number of graduate student studies of the Yellowstone grizzly and in other Montana areas, co-authored several scientific papers with members of the Interagency Grizzly Bear Study Team, in addition to personal publications.

Ruth Rudner (*Our Wonderland Heritage Horsepack and Llama Trek*) is an outdoor writer, author of eight books and numerous articles, among them frequent contributions to

"The Wall Street Journal" Leisure & Arts Page. She has spent much of the past two years working on material dealing with Indian sacred land. As teacher of occasional writing workshops, she was selected in 1994 as Writer-in-Residence by the Writer's Voice of the Billings Family YMCA to teach a master-level workshop program. She has been riding the Yellowstone backcountry with Richard Clark for the past eight years.

Rebecca Schanz (*Issues & Ethics*) has a bachelor's degree from Montana State University in science education and is pursuing a Master's Degree in biology. She is a former junior high/high school instructor of geology, biology, ecology and environmental sciences. She was employed with the Forest Service as a wilderness ranger, trail crewman and Director of Youth Conservation Corp camp. Rebecca has an inherited and continuing passion for the Yellowstone ecosystem and Yellowstone National Park and believes the welfare of the human soul lies in one's ability to experience nature and wildness.

Don Streubel (*Mammals Great & Small*) holds a Doctor of Arts degree in biology and is a professor of biology at Idaho State University. He is the author of Small Mammals of the Yellowstone Ecosystem and was director of the Yellowstone Institute from 1989 through March 1991.

Tom Watson (*Exploring the Yellowstone Ecosystem*) has spent the last 14 summers studying geology and ecology in the Greater Yellowstone Ecosystem, most recently as a Yellowstone Institute instructor, and a presenter for the National Wildlife Federation Summit programs. During the school year he teaches biology and geology in California.

Lee H. Whittlesey (*Yellowstone Place Names: The Nomenclature of Wonderland*) 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 (Helena: Montana Historical Society, 1988). Whittlesey is also the author of Death in Yellowstone: Accidents and Foolhardiness in the World's First National Park (Niwot, Colorado: Roberts Rinehart, 1995); Everts: Lost in the Yellowstone (to be published in 1996 by the University of Utah Press); and two other books which he wrote for the National Park Service. One of those, coauthored with Paul Shullery, is published in Waves for Yellowstone?, vol IV, and is about the history of large animals in the region. The other, entitled Touring in Old Yellowstone, is about the early history of interpretation and transportation in the park. Whittlesey's articles have appeared in "Montana the Magazine of Western History" and "Wyoming Annals." He has a law degree from the University of Oklahoma.

Scott Wood (*Lakes of Yellowstone by Canoe; Autumn Canoeing in Yellowstone; Backcountry by Ski*) has 20 years' experience in outdoor education, is an instructor at Ricks College, and a doctoral candidate at the University of Utah. He is a certified Red Cross canoeing instructor, a certified backcountry ski guide and has extensive avalanche experience.

BOOKS, MAPS and PAMPHLETS

about Yellowstone National Park

These titles and many more are available at the
Yellowstone Institute store located at our facility in Lamar Valley,
at Visitor Centers throughout the Park,
and by mail through the Yellowstone Association.
Yellowstone Association members receive a 15% discount on all purchases.

Books by Institute Instructors

A Life In Hand, Hinchman. This is an illustrated handbook for discovering yourself through writing and drawing. Also included is a blank journal for you to illustrate and fill. 160 pages \$19.95

Bears of Yellowstone, Schullery. This book is a great overview of the complexities and difficulties of endangered species conservation. Broken down into three parts you learn the natural history of bears, past management philosophies, and the lore and magic of bears. 263 pages. \$12.50

Birds of Yellowstone, McEneaney. Written by Yellowstone's leading bird biologist, this is a practical guide to the birds in the park and where to find them. 171 pages. \$12.95

Field Guide To Tracking Mammals In North America, Halfpenny. Given an outstanding review by the "New York Times," this is more than just a field guide. You can learn to understand tracks, interpret clues, and read the trails that animals have left behind. 163 pages \$14.95

Small Mammals of the Yellowstone Ecosystem, Streubel. Concentrating on the small mammals of the Yellowstone ecosystem, this book covers over 53 animals and has an introductory chapter on habits and behavior. 152 pages. \$12.50

Winter: An Ecological Handbook, Halfpenny. Starting with snow physics this book focuses on ecology during the cold months. Selections include advice on avalanche danger, snow shelters, and winter equipment. 272 pages. \$16.95

Yellowstone Bear Tales, Schullery. This book contains a selection of bear encounters as told by hunters, park residents, tourists and others from the late 1800's to 1940's. Through these stories you feel the humor, fear, and wisdom these fascinating animals evoke. 212 pages \$12.95

Yellowstone Vegetation, Don Despain. This book brings together the author's many years of research with comprehensive reviews of vegetation types, distribution, and the natural forces that influence plant succession. 239 pages. \$14.95

The Yellowstone Story, Haines, two-volume history classic on Yellowstone Park with black and white photos.
Volume I traces the buildup of knowledge of the Yellowstone area gained from Indians, fur trappers, prospectors and explorers. Covers the enactment of federal legislation to establish the world's first national park. 385 pages \$12.95
Volume II is a record of the first hundred years of the park. Traces construction of park roads and facilities, visitor activity and experiences from stagecoaches and tents through autos and hotels. 543 pages \$12.95

Books by Institute Instructors [cont.]

Yellowstone Place Names, Whittlesey. Retrieving his facts from government records, tourist narratives, and newspaper articles, the author introduces us to the fascinating histories of more than 650 place names. This book is illustrated with reference maps and historical photos. 178 pages. \$11.95

Uncommon Loon, McEneaney & Quinton. Written by Yellowstone's resident bird biologist, this book details the common loon's life. The photographs are outstanding and will enable you to understand this bird even better. 109 pages \$9.95

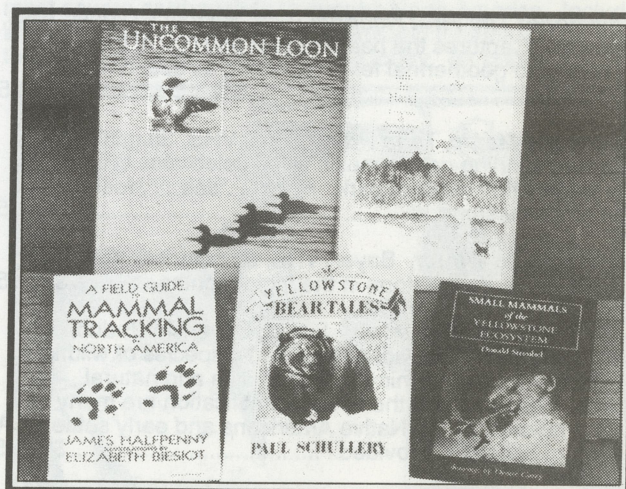


Photo by Pam Gontz

Plants

Alpine Wildflowers of the Rocky Mountains, Willard & Smithson. Contains pictures and information on over 50 alpine flowers. Also included is a chart on bloom periods, tundra ecosystems and distribution. 40 pages. \$4.95

Strickler's Wildflowers of the Rocky Mountains, Strickler. This is a three book series. **Forest Wildflowers**, **Prairie Wildflowers**, and **Alpine Wildflowers**. In all three books the author describes each wildflower according to family. There are beautiful photographs, line drawings, and a glossary of botanical terms to help identify species quickly. 112 pages each. \$8.95 ea

Plants of Yellowstone & Grand Teton, Shaw, 160 pages of color photos and descriptions of park vegetation from trees to flowering plants. 159 pages \$8.95



Photo by Pam Gontz

Videos

Catch Me If You Can, Trailwood-Landis Productions, VHS, 46 minutes. In this video you see excellent footage of young animals (predators and grazers) playing. You learn that play actually teaches and sharpens the skills these animals will need for adult life. A great gift for children. \$24.95

Geysers of Yellowstone, Finley-Holiday Film Corp., VHS, 45 minutes. Compiled from several years of filming, this video presents a complete picture of geysers, hot springs, mud pots and how they work. Tour the geyser basins of Yellowstone and receive an education on these fascinating thermal features. \$24.95

Yellowstone: The First National Park, Reader's Digest, VHS, 60 minutes. Captures the beauties and oddities of the Park from wildlife to geothermal features during all seasons of the year. \$24.95

Yellowstone Magic, Terra Productions, VHS, 38 minutes. This award winning nature music video celebrates the beauty of the world's first national park. Hear . . . see . . . feel . . . the magic of Yellowstone. \$19.95

Yellowstone In Winter, Bayer, VHS, 60 minutes. A fascinating video about Yellowstone in the frigid months. \$24.95

Wildflowers of Yellowstone, Jensen/Schenck Productions, VHS, 53 minutes. This video features 71 species of wildflowers plus many other scenic shots of wildlife and natural features. Featured with the flower identification are many of the uses favored by the Native Americans and early settlers. A checklist of flowers is provided. \$24.95

History

Chief Joseph's People and their War, Josephy Jr. This book tells of the flight of Chief Joseph and the Nez Perce from Oregon through Yellowstone to their surrender in the Bear Paw Mountains of Montana. 21 pages \$1.25

Colter's Hell and Jackson's Hole, Mattes, This is a story of trapper days in Yellowstone and Grand Teton National Parks, with drawings and maps. 87 pages \$2.95

The Flight of the Nez Perce, Brown. This author reviewed military records, journal accounts, and personal testimonies to write this exact and candid study of the flight of the Nez Perce. 480 pages. \$13.95

Mountain Men & Fur Traders of the Far West, edited by Hafen. This volume brings to the reader brief biographies of eighteen representative mountain men. Some of the selections are Jedediah Smith, Kit Carson, Nathaniel Wyeth, and Old Bill Williams. 401 pages. \$10.95

Mammals

Great Bear Almanac, Brown. Published in 1993 this is the most comprehensive reference on bears available. The information is presented in words, pictures, maps, and charts. Hardcover, 325 pages. \$30.00

Ecology of the Coyote, Murie. This paperback represents a scientific study of the coyote in Yellowstone and its relationship to all species upon which it feeds. 206 pages \$4.95

Large Mammals, Craighead. The booklet contains color photographs of Yellowstone's common large mammals. Included are descriptions of the animals along with information on habitat, tracks, food habits, enemies and reproductive biology. 31 pages \$1.95

Seasons of the Coyote, Edited by Harrison. The essays and spectacular photography in this book capture the legend and lore of an American icon--the coyote. 114 pages. \$24.95

The Way of the Wolf, Mech. Wolf behavior, biology, research and reintroduction illuminated with 80 full-color photographs. 120 pages \$29.95

Wolf Pack, Johnson & Aamodt. An excellent book on wolves that describes the social interaction of wolves in a pack as they hunt, maintain territory, and raise young. Grades five through adult. 96 pages \$6.95

Yellowstone Wildlife: A Watcher's Guide, Wilkinson. With beautiful color photographs, this is a great guide for wildlife fans. The author reveals over 45 animals, preferred habitats, best places to be found, feeding habits and more. 95 pages \$11.95



Photo by Pam Gontz

Posters and Prints

Close to Mom a dramatic poster which includes a painting by Carl Brenders (Mill Pond Press) of a grizzly and three cubs along with interpretive information about the bear. The profits from the sale of this poster go to Bear Research in Yellowstone. 28" x 25" \$7.95

I Shall Return..., Evanoff. In commemoration of the reintroduction of gray wolves to Yellowstone, the National Park Service, with support of the Yellowstone Association, produced this striking poster with a ghostly image of the wolf. Proceeds will help support wolf reintroduction. 19.5" x 35" \$15.00

Returning Home, Bryan. This poster captures the penetrating glance of a gray wolf amongst a snowy stand of aspen. 28" x 22" \$15.00

Birds

Field Guide to the Birds of North America, National Geographic Society. This field guide covers loons to finches and everything in between. The color on the plates is true to life and the maps and descriptions are on the opposite page. 464 pages. ...\$18.95

Birds of North America, Golden Press. This field guide captures each bird in full color with descriptive text on facing page. 360 pages.\$11.95

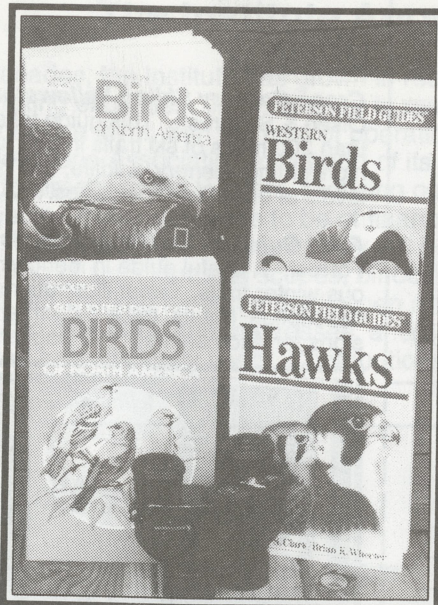


Photo by Pam Gontz

Peterson Field Guides: Western Birds, Peterson. This "Birder's Bible" is considered the definitive guide to western birds. The 165 full-color paintings and 441 maps cover every species found west of the Great Plains. 432 pages.\$16.95

Peterson Field Guide to Hawks, Clark and Wheeler. A field guide to all 39 species of North American hawks and other diurnal raptors, including eagles, falcons, and vultures. 198 pages.\$15.95

Guidebooks, Hiking & Maps

National Parkways, Yandell. Large color pages with maps. A photographic and comprehensive guide to the parks.
Yellowstone, 82 pages.\$6.50
Grand Teton, 68 pages.\$6.50
Glacier, 73 pages.\$6.50

Hamilton's Guide, Lystrup. This guidebook to Yellowstone with information on facilities and services will increase your knowledge and enjoyment of your trip. 160 pages.\$4.95

Yellowstone Trail map: Quarter Sections, outdoor, waterproof, illustrated topo maps that include backcountry campsites. Order by area of interest: Mammoth, Tower/ Canyon, Old Faithful, Lake, (1:83,333), each map \$5.95, Set of four ..\$19.95

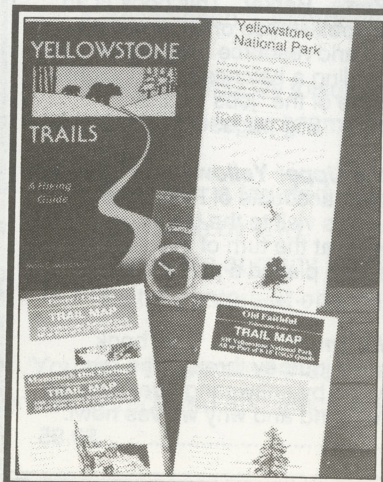


Photo by Pam Gontz

Yellowstone Trail Map, outdoor, waterproof, illustrated topo map. (1:168,500).\$6.95

Teton Trail Map, outdoor, waterproof, illustrated topo map (1:78,000).\$6.95

Yellowstone Trails: A Hiking Guide, Marshall. This back-country guide covers over 1000 miles of park trails. Contains useful information on back-country rules and how to hike through bear country. 159 pages.\$4.95

Geology

The Geysers of Yellowstone, Bryan. Black and white photos and maps. Comprehensive guide to over 400 of the park's geysers and geothermal features. 225 pages. Available March 1995\$14.95

Guide to Geyser Gazing, Rinehart. This book on geysers covers how they function, locations and other interesting facts. 64 pages.\$1.40

Life at High Temperatures, Brock. This book takes a look at the hot springs and thermal features of Yellowstone. Learn about microbiology discoveries in Yellowstone that became building blocks for today's DNA research. 31 pages.\$2.50

Roadside Geology of Montana, Alt & Hyndman. This book provides new interpretations of the Rocky Mountains based on modern theories. Illustrated with maps, cross-sections, diagrams, and photographs. 149 pages.\$14.95

Roadside Geology of the Yellowstone Country, Fritz. Covers geologic formations along all roads in Yellowstone and all major roads leading to the North, East, and West entrances of the park. 149 pages.\$10.00

Geologic Map of Yellowstone, published by Montana State University. Large map with major deposits, ash and lava flows indicated by color. Fascinating for those with an interest in geology or as a colorful wall display.\$3.95

The Night the Mountain Fell, Christopherson. This is the story of the 1958 Montana-Yellowstone earthquake, one of the most severe earthquakes to ever hit North America. Included are many photos taken at the scene and information on how the quake resulted in what we see today. 88 pages.\$5.95

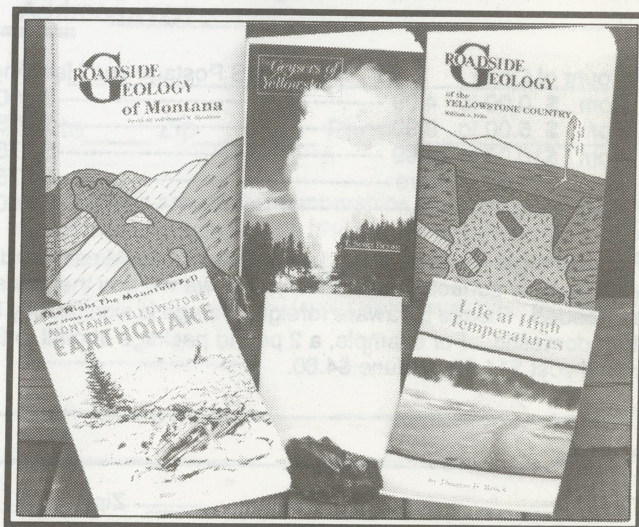
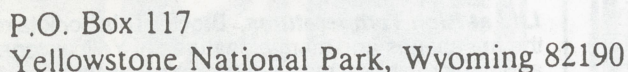


Photo by Pam Gontz

Fish & Fishing

Freshwater Wilderness: Yellowstone Fishes and Their World, Varley & Schullery. A beautiful award winning publication designed for anglers and non-anglers alike who want to know the history of Yellowstone's fishes and how management affects what we see today. Color illustrations, 132 pages.\$12.95

Yellowstone Fishing Guide, Charlton. An accurate and comprehensive book on fishing the waters of Yellowstone National Park and the surrounding waters of the Greater Yellowstone Area. Includes 10 maps and 40 photos with color illustrations. 184 pages. Available April 1995\$17.95



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Field Guide to Tracking Animals in Snow, Forrester. A useful guide in identifying those mysterious winter trails. Great illustrations accompany the description, habits, track pattern and associated signs for each animal. 192 pages\$12.95

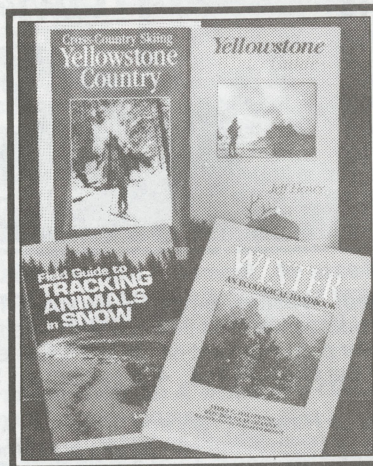


Photo by Pam Gontz

Yellowstone Winter Guide, Henry. Published in 1993 this book covers lodging, snowmobiling, equipment rentals, cross-country skiing, and more. 95 pages. ...\$11.95

Winter: An Ecological Handbook, Halfpenny. See description on page 27.

NEWER RELEASES

A Pika's Tail, Plumb. This charming children's story reveals the life cycle of the pika. The illustrations are realistic portrayals of the mountain environment of the pika, marmot and weasel. Hardcover. 37 pages.....\$14.95

Camping Out in the Yellowstone, 1882,
Richards. This book describes the park at a
time when Yellowstone was truly an "out-back
and beyond" experience. The author provides a
vivid picture of the undeveloped and untouristed
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Saving All the Parts, Barker. This book is an exploration of the coexistence of endangered species protection and resource dependent communities, providing a balanced and insightful overview of some of the "jobs vs. the environment" issues. 268 pages \$15.95

***Twice Told on the Upper Yellowstone*, Vol. 1, Whithorn.** Historical accounts of President Theodore Roosevelt's visit to the Upper Yellowstone country at the turn of this century as well as others who played a part in his sojourn. 79 pages\$19.95

Wolf-A Year's Journey, Kosh. This book covers the wolf in its journey through the four seasons and beyond by answering questions on where wolves are found and why wolves howl. 48 pages \$9.95

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Over the past two decades, the Institute has grown in response to the needs of the park visitor. The growth has resulted in higher operating expenses. In an attempt to reach a healthy cross-section of the general public, we have kept tuition at a low to moderate level, with the cost of operation almost always exceeding income. Our shortfall is graciously taken on by the Yellowstone Association in support of its park-wide education efforts. Your gifts and donations, which are tax deductible, go directly to the Institute, reducing our losses, and "freeing up" more Association money for other worthwhile park projects. If you would like to be of financial support specifically to the Institute, you may donate to one of our special funds, thus assuring that your money will be spent as you would like. The Education Equipment Fund supports the purchasing of such items as scopes, binoculars, TV, and VCR; through the Buffalo Ranch Facility Fund, contributions may be ear-marked for either the kitchen and classrooms fund, keeping them up to date; or to the cabin fund, to be used toward new beds and mattresses, and general upkeep. Please know that your contributions will always be appreciated and efficiently used. Contributions may be made to the Yellowstone Institute, P.O. Box 117, Yellowstone National Park, WY 82190.

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The Association was founded to serve Yellowstone National Park and its visitors through support of educational, scientific, and historic programs. When you become a member of the Yellowstone Association you will have a role in a non-profit, educational project which began in 1933. For more information on projects sponsored by the Association see page two of this catalog.

To acknowledge your interest and support 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 Institute field courses
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- A 15% discount on items sold by the Yellowstone Association (in Visitor Centers or by mail)
- Informative newsletters
- Invitations to special members' activities
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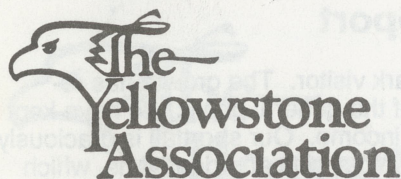
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[Note: Refund Policy on page 5]

Name(s) _____ ☐ Male ☐ Female ☐ Check here if you're **new** to the Institute

Address _____ Please list names & ages of children for family classes

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Where can you be reached one month prior to the course? Address _____ Phone () _____

How did you find out about the Yellowstone Institute? _____

☐ Check here if you are a current member of the Yellowstone Association or are joining now. (Memberships begin at \$25 - see pg. 31)

Course Title and Number	Dates	Tuition
_____	_____	_____
_____	_____	_____
_____	_____	_____

Lodging:

- ☐ I want to stay at the Institute cabins at Lamar the following nights at \$10/night. Dates _____
- ☐ My class does not meet at the Lamar facility. See my attached note regarding need for information.
- ☐ I will make my own lodging or camping arrangements.

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Date _____ Signature _____

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(SIGNATURES FOR ALL PARTICIPANTS REQUIRED)

If under 21 years of age, parent or guardian must sign -- give age(s) _____