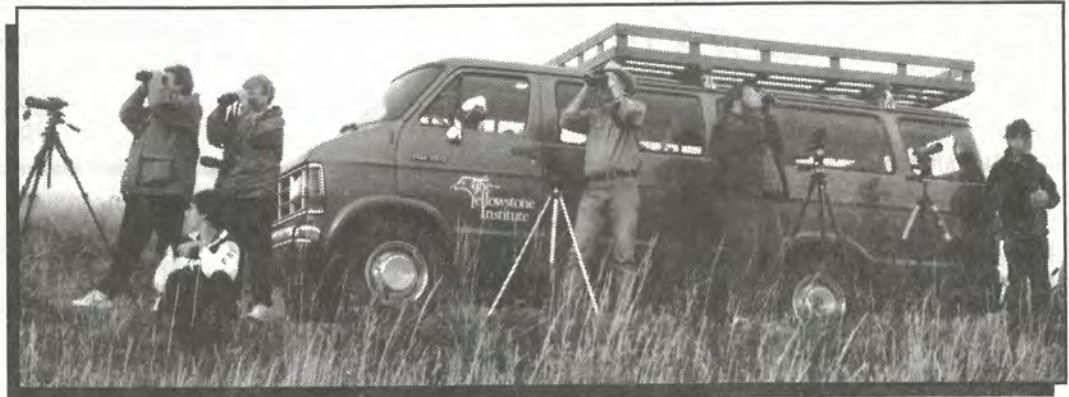


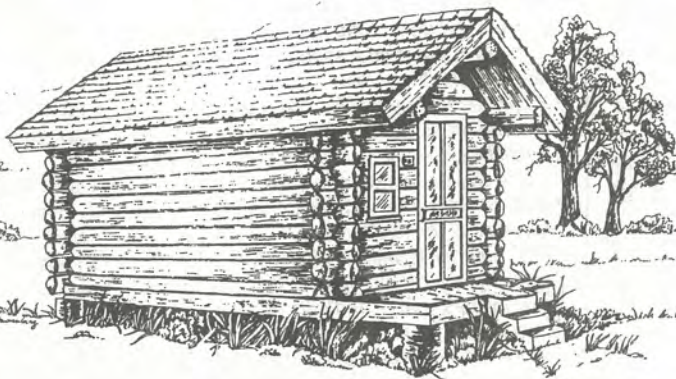


1996 - 97 winter
Field Courses
Nature Study Vacations

THE TWENTY-FIRST ANNUAL YELLOWSTONE INSTITUTE



Phillips / Reese
YI Collection



*"A thousand Yellowstone
wonders are calling,
'Look up and down
and round about you!'"*

-- John Muir, 1898

CONTENTS & INTRODUCTION

CONTENTS PAGES

Aquatics	14, 16
Archeology	18
Art	17, 18, 29
Backpacking	9, 15, 27, 28
Bats	13
Bears	9, 10
Birds	7, 8, 10, 13
Book List	23-26
Calendar - 1996/97	3
Canoeing	12, 28
Directory	4
Ecology	15, 16, 19, 27, 33
Family Courses	14, 27
Fly Fishing	10, 19, 27, 29
Folklore	9, 33
General Information	5, 6
Geology & Geysers	9, 12, 16, 28, 29
History	12, 13, 15, 16, 18, 29
Horsepacking	30, 31
Insects	14
Instructor Profiles	35-38
Journal Keeping	8, 11, 13, 17, 19, 29
Llama Trekking	17
Mammals	8, 10, 11, 19, 32
Membership Information	39
Native Americans	13, 18, 30, 31, 33
Photography	14, 15, 28, 29, 32
Registration Form	back page
Tracking	8, 15
Travel Information	4
Wildflowers & Plants	11, 16, 17, 18
Wildlife Observation	8, 29
Winter Courses	32, 33
Winter General Information	34
Wolves	7, 11, 12, 19
Writing	27, 33
Yellowstone Institute Store	20-22

Yellowstone Institute

Mammoth Office
307-344-2294

June-Aug at Lamar
307-344-7749

Cover photos by Pam Gontz
Artwork by Peg Steunenberg
Catalog layout by Pam Gontz

Dear Participant,

Welcome to the Yellowstone Institute's 1996-97 selection of year-round courses. You will see a wide range of educational experiences that explore all facets of natural history, cultural history, and humanities topics relevant to the Yellowstone area. Courses in every imaginable subject are offered throughout the park and in every season. There are introductory courses and ones for veterans to the Yellowstone landscape.

Inherent in the uniqueness of Yellowstone is the urge to get to know it, to turn the gem to the light, viewing every facet. For the curious there are new routes to be explored every day. If you are among the curious, the Yellowstone Institute provides the means for such an exploration. We look forward to having you join us.

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 its past and present activities, the Yellowstone Association:

- Founded the Yellowstone Institute in 1976 and serves as its sponsoring organization.
- Operates book sales outlets in Visitor Centers throughout the park with proceeds going to support educational, scientific, and historic programs.
- Publishes trail guides for self-tours of thermal areas.
- Publishes educational books and pamphlets pertaining to Yellowstone Park.
- Assists naturalists with visitor information services at Visitor Centers.
- Aids naturalists with distribution of schedules of ranger-led programs for visitors.
- Administers grants and gifts received for designated projects in Yellowstone.
- Helps fund seasonal training for naturalists.
- Annually contributes significant funds for park exhibits, educational programs, and research projects.
- Donated computer equipment to the naturalist division for use in preparing the park newspaper and schedules for ranger-led activities.
- Donated research library collections to Yellowstone National Park.

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

BOARD OF TRUSTEES

Chairperson
Leslie C. Cox

Vice Chairperson
John Joseph

**Secretary/
Treasurer**
Henry S. Kingman

BOARD MEMBERS

Jerry Brady
Corlene H. Cathcart
Maryanne Mott
Thomas Offutt
Louise B. Plank
W. Randall Porter
Guido R. Rahr, Jr.
Michael S. Sample
Marilyn Shea
Richard Smith
Harriet Spencer
Stephen W. Tedder
Norma Tirrell

ADVISORY COMMITTEE

C. Robert Binger
Dr. William Carlson
Stephen E. Cole
Wallace Dayton
John Dietrich
John Good
Aubrey L. Haines
Monte Later
Dr. John Montagne
Dr. William J. Tietz
Beverly J. Whitman

STAFF

Executive Director
Pat Cole
Institute Director
Don Nelson
Assistant Institute Director
Pam Gontz
Marketing Director
Mary Flaming
Controller
Rebekah Johnson

PARK REPRESENTATIVES

Park Superintendent
Mike Finley

Chief Naturalist
Ron Thoman

Administrative Assistant
Debbie Chambers

Membership Coordinator
Craig Elliott

Mail Sales
Kelly Larsen

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 & Winter

MARCH 1996

- * Mar 1-3 301 Yellowstone's Wolves

MAY-JUNE 1996

- * May 25-27 601 Camping & Birding
 May 28-31 602 ✓ Mammal Tracking
 May 28-31 603 Wildlife Observation—Spring
 ↗ May 28-Jun 1 604 Wildlands Horsepacking Seminar—Professional Guides
 * May 31-Jun 2 605 Learning Birds by Sound
 ↗ June 1-2 606 Action in Lamar: Journal Series #1
 ↗ June 5-9 607 Horsepacking: The Nez Perce Trail—Before Yellowstone
 June 6-8 608 Backpacking in Grizzly Country
 June 7-10 609 Grizzly Bear Ecology & Management
 ↗ June 8-9 610 ✓ Ecosystem Geology: Land Skills for Survival
 June 11-13 611 ✓ Bears: Folklore & Biology
 June 11-15 612 ✓ Mammals Great & Small
 June 14-16 613 Fly Fishing the West Side
 * June 14-16 614 Birding Yellowstone
 June 17-21 615 ✓ Bears: Bones, Signs & Stories
 June 17-21 616 ✓ Birds of Yellowstone
 June 21-23 617 ✓ Wild Edible Plants & Medicinal Herbs
 ↗ June 22-23 618 Wildflowers: Field Journal Series #2
 June 22-24 619 ✓ The Evolution, Ecology, & Future of the Wolf Family
 ↗ June 24-27 620 ✓ Yellowstone Park & the Fur Trade
 June 24-28 621 Lakes of Yellowstone by Canoe
 June 25-27 622 The Wolf's Return—Mythology to Recovery
 June 28-30 623 ✓ Fire, Ice & Fossil Forests
 June 29-Jul 2 624 Going to the Source: the Art of the Field Journal

JULY 1996

- July 1-3 701 Bats of Yellowstone & Vicinity
 July 1-5 702 Horsepacking: Flora & Fauna of Yellowstone—Hellroaring
 July 5-6 703 Flight of the Nez Perce through Ylstr
 July 5-7 704 ✓ Yellowstone Birds of Prey
 July 6-9 705 Family Horsepacking—Doing Things Together
 July 7-8 706 The Last of the Wild Rivers
 July 8-9 707 ✓ Aquatic Insects of Yellowstone
 July 8-10 708 ✓ Interpreting Ylstr with "Ranger Ted"
 July 9-12 709 Photographing Nature in Ylstr #1
 July 10-12 710 ✓ Butterflies of Greater Yellowstone
 * July 13-14 711 Women & Yellowstone—A Historical Perspective
 * July 13-14 712 The 24-Hour Experience: An Environmental Encounter
 July 13-15 713 Exploring the Yellowstone Ecosystem
 July 14-18 714 Horsepacking: Yellowstone Heritage Horsepack
 July 14-18 715 Photographing Nature in Ylstr #2
 July 15-18 716 ✓ Mammal Tracking
 July 16-18 717 ✓ Headwater Watershed Ecology
 July 19-20 718 Wildflowers of Yellowstone
 July 19-21 719 ✓ Geysers, Mudpots, & Hot Springs
 July 19-21 720 Yellowstone Place Names: The Nomenclature of Wonderland
 July 19-23 721 Horsepacking: The Nez Perce Trail—Traditional Route, Upper Lamar

JULY (cont.) 1996

- ↗ July 20-21 722 Wildflowers: Field Journal Series #3
 July 21-25 723 ✓ Wildflowers Llama Trek
 July 22-26 724 ✓ Hot Rocks, Hot Waters & Great Shakes
 July 23-25 725 Wildflower Art
 * July 26-28 726 ✓ Alpine Wildflower Walks
 July 27-31 727 Observing Ylstr with the Artist's Eye
 July 29-31 728 Yellowstone's Wayside History

AUGUST 1996

- Aug 2-4 801 Yellowstone Before Tourists: Prehistoric People
 Aug 2-4 802 Fly Fishing: Less Experienced
 ↗ Aug 2-4 803 Exploring Bechler: Journal Series #4
 Aug 3-7 804 ✓ Horsepacking: Trapper Trails Through the Thoroughfare
 ↗ Aug 5-7 805 ✓ Life at the Extremes
 Aug 5-9 806 ✓ Carnivores of the Greater Yellowstone Ecosystem
 Aug 5-9 807 Backpacking the Beartooths: The "Leave No Trace" Way
 Aug 6-8 808 Family Days in the Thermal Basins
 Aug 7-11 809 Horsepacking: Washburn Expedition—Yellowstone & Heart Lakes
 Aug 9-11 810 Fly Fishing: More Experienced
 * Aug 10-11 811 ✓ Episodic History of Yellowstone Lake
 Aug 11-15 812 Finding Your Own Voice: A Wilderness Writing Experience
 ↗ Aug 12-16 813 Backpacking Yellowstone: The Bechler Region (2nd of a Series)
 Aug 12-16 814 ✓ Geology of the Yellowstone Country
 Aug 30-Sept 2 815 Autumn Canoeing in Yellowstone

SEPTEMBER 1996

- ↗ Sept 2-6 901 Horsepacking: Indian Summer—Bechler Country
 Sept 9-13 902 Autumn Wildlife Photography
 ↗ Sept 9-13 903 Horsepacking: The Nez Perce Trail—Mirror Plateau
 ↗ Sept 14-15 904 Mammoth: Field Journal Series #5
 ↗ Sept 16-20 905 Art & Nature
 Sept 18-21 906 Wildlife Observation—Fall
 Sept 20-22 907 Fly Fishing in the Fall
 Sept 25-28 908 Grand Teton Photography
 ↗ Sept 27-29 909 Angels from Echinus: Exploring the Mysteries of Norris Geyser Basin

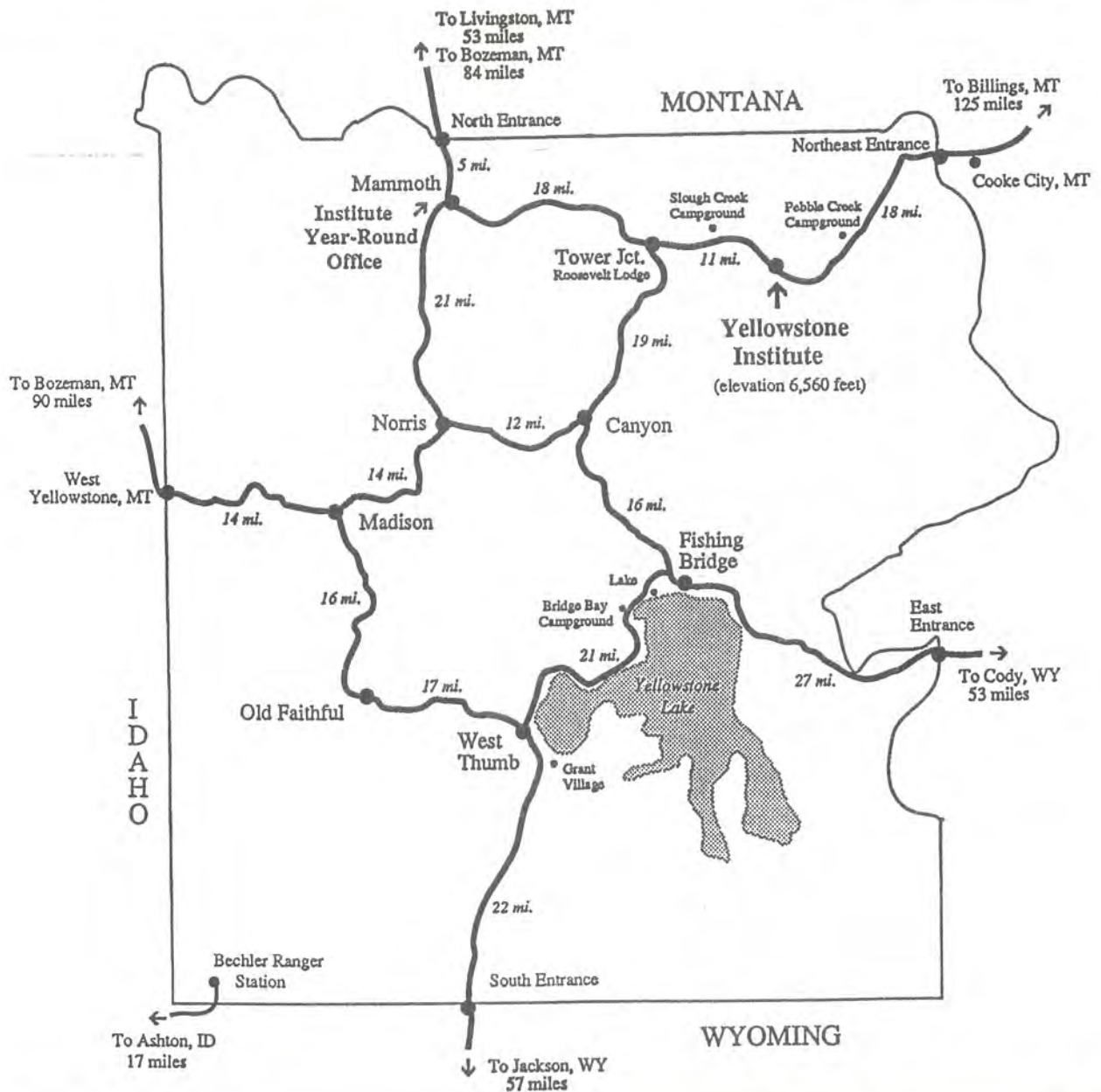
WINTER 1997

- Jan 10-13 101 Winter Wildlife & Nature Photography
 * Jan 25-26 102 How Mammals Survive Winter
 Jan 28-30 103 The Winter Experience: Enjoying its Comforts
 Jan 31-Feb 2 104 The Tradition of Winter Storytelling
 ↗ Feb 7-9 201 Gathering Winter Words
 Feb 14-17 202 Yellowstone's Winter World

- ↗ denotes a **New** class
 * denotes a weekend class (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		
via Red Lodge	143 mi.	3-1/2 hrs.
via Livingston	207 mi.	3-3/4 hrs.
From Cody		
via East Entrance	126 mi.	3 hrs.
via Northeast Entrance	84 mi.	2-1/4 hrs.
From Jackson	146 mi.	3-1/2 hrs.
From West Yellowstone	70 mi.	2 hrs.

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

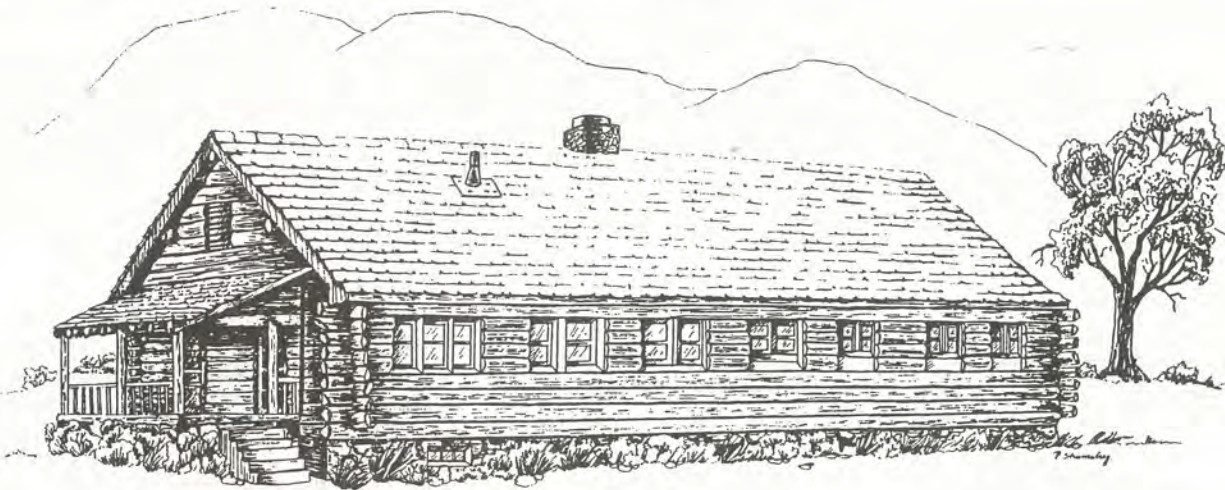
D.I.R.E.C.T.O.R.Y

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

GENERAL INFORMATION



*The old bunkhouse building that remained from the original Buffalo Ranch now houses the Yellowstone Institute.
Artwork by Peg Steunenberg*

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

Due to health and safety considerations, students are not allowed to bring pets to the Lamar facility. 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.

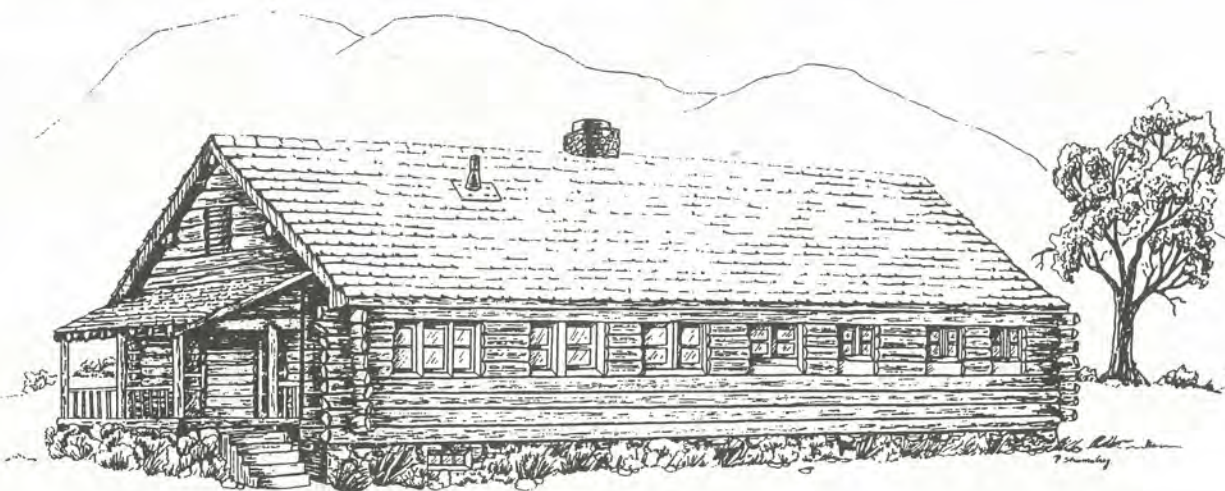
Food and Preparation

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. Since space is limited and participants share the cooking facilities, we ask that meals be kept fairly 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.

GENERAL INFORMATION



*The old bunkhouse building that remained from the original Buffalo Ranch now houses the Yellowstone Institute.
Artwork by Peg Steunenberg*

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

Due to health and safety considerations, students are not allowed to bring pets to the Lamar facility. 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. Since space is limited and participants share the cooking facilities, we ask that meals be kept fairly 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.

GENERAL INFORMATION (cont.)

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 \$70-\$95 per semester hour, 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.

Altitude

Most of Yellowstone Park is above 6,000 feet. If you are coming from a much lower elevation, it will be smart to allow yourself an easy day to "adjust" rather than risk altitude sickness by beginning with a full, active day immediately. It is important to drink lots of fluids to prevent dehydration.

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

1996 Refund Policy (for all courses except horse and llama trips)--

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. If we can fill your space a refund will be made less the course processing fee. Tuition and cancellation processing fees may be applied toward tuition for another course during the current calendar year on a space available basis. Cabin fees are 100% refundable.

1996 Horse and Llama Trip Refund Policy--

Payments for Institute horse and llama courses are fully refundable, less a \$35 per course processing fee (\$20 for Association members), if cancellation takes place **on or before April 1, 1996**. For cancellations made **between April 1, 1996 and May 1, 1996**, a refund will be made less a \$200 per person nonrefundable outfitter deposit and the \$35/\$20 course processing fee, unless your space can be filled. No refunds can be made for cancellations received after **May 1, 1996**, unless your space can be filled. If we can fill your space a refund will be made less the course processing fee. Tuition and cancellation processing fees may be applied toward tuition for another horse/llama trip during the current calendar year on a space available basis. Cabin fees are 100% refundable.

Important:

The Yellowstone Institute cannot make exceptions to this refund policy for any reason, including, but not limited to, illness, personal situations, emergencies, or weather. We strongly urge you to take out accident, baggage, and trip cancellation insurance through a travel agent. We suggest you check with a travel agent regarding the best time to purchase travel insurance. *Travel insurance helps protect you against financial loss if you must cancel or interrupt a trip because of illness or injuries to yourself, a family member, or traveling 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 fund-raising activities of the Yellowstone Association, a non-profit, tax-exempt organization.





The Lamar-Buffalo Ranch facility.

Photo by Pam Gontz



The Yellowstone Institute Store.

Photo by Pam Gontz

YELLOWSTONE'S WOLVES: 301**March 1-3, 1996****\$115 (Member's fee \$105)****Location: Lamar-Buffalo Ranch****Limit: 15****Instructor: James C. Halfpenny, Ph.D.**

Listen closely ... wolves howl over Lamar Valley! Three packs have been reintroduced and more may be present by the time this class starts. Wolves have established territories and travel the valley preying on elk and raising their pups. Be part of the latest news. Join us at Lamar for a two-day update of the wolf reintroduction and overview of wolf ecology. Morning and evening lectures will cover basic taxonomy, biology, ecology, and management. Lectures will be supplemented by slides and videos shot during the reintroduction. Using tracking (Jim's favorite) as a conduit to learning, afternoon field sessions will cover identifying wolf tracks (versus dog, fox, coyote), understanding wolf gaits, reading stories in their trails, and interpreting wolf ecology in the field. With luck we may explore a kill site. We'll even try to view wolves from the road, but all this will be done without interfering with the wolves themselves.

Program starts at 7:30 pm on March 1, but come early for an informal, potluck, gossipy supper--perhaps a visit by a wolf biologist. There will be evening lectures on Friday and Saturday. Bring field lunches and lots of trail food as we will not waste daylight hours staying inside to eat. You will need either crosscountry skis or snowshoes for field sessions. We may ski a few miles each day over easy, rolling terrain.

Jim, a carnivore ecologist, has tracked wolves in 14 locations across North America 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, in Banff and Jasper National Parks of Canada, and in Yellowstone. 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 34. Closest accommodations*

other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east.

CAMPING AND BIRDING (Yellowstone & Beyond): 601**May 25-27****\$235 (Member's fee \$225)****Location: Greater Yellowstone & Beyond****Limit: 7****Instructor: Terry McEneaney**

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, traveling, 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. Course will meet on May 25 at 5:45 am in Gardiner, Montana.



Photo by Pam Gontz



Photo by Pam Gontz

MAMMAL TRACKING: INTERPRETING TRACKS, SCAT, & OTHER SIGN

May 28-31: 602 July 15-18: 716

\$207 (Member's fee \$197)

Location: Lamar-Buffalo Ranch

Limit: 15

Credit available: U, 1 semester 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. The course will meet at the Lamar facility at 9:00 am on the first day and end at approximately 5:00 pm on the last day. *Fee includes \$25 for a copy of the instructor's book plus other course materials.*

WILDLIFE OBSERVATION-SPRING: 603

May 28-31 \$142 (Member's fee \$132)

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 28 and run to noon on May 31. The opening session will cover selection and use of binoculars and spotting scopes for quality wildlife observation.

WILDLANDS HORSEPACKING SEMINAR-PROFESSIONAL GUIDES: 604May 28-June 1 (see description on pg 30) **NEW****LEARNING BIRDS BY SOUND: 605**

May 31-June 2

\$115 (Member's fee \$105)

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. Be aware, this course is not easy and requires tremendous concentration. 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, May 31, at 7:30 pm and run to 5:00 pm on June 2. An optional outdoor barbeque will begin at 6:00 pm.

ACTION IN LAMAR: WEEKEND FIELD JOURNAL SERIES #1: 606

June 1-2

\$98 (Member's fee \$88)

Location: Lamar-Buffalo Ranch

Limit: 15

Instructor: Carolyn Duckworth

NEW

Because of the interest in field journals, the Institute now offers a variety of classes. As a quick introductory sampling, try one or all of our weekend series, held at different sites around Yellowstone.

This is the first of five weekend classes designed to sample journal-keeping approaches; each one can be taken independently. The series begins with this class when animals are active, aspens are leafing out, and wildflowers are beginning to bloom in the low country. In between capturing these events with careful notes and quick field sketches, we'll explore the role of field journals in the history and science of Yellowstone. Course will begin at 9:00 am on June 1 at the Lamar facility. For other courses in this series, see course numbers: 618, 722, 803, and 904.

For a more in-depth experience of the written and drawn field journal, join us in Lamar Valley for *Going to the Source: the Art of the Field Journal*, course number 624.



Photo by Pam Gontz

HORSEPACKING: THE NEZ PERCE TRAIL—BEFORE YELLOWSTONE: 607

June 5–9 (see description on pg 30)

NEW



Photo by Pam Gontz

BACKPACKING IN GRIZZLY COUNTRY: 608

June 6–8

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

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. 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. Twelve miles in length, 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 back-country lessons to be learned. Remember: For some this hike can still be difficult. There is an initial 1,100 foot climb en route to the beautiful Pebble Creek Valley. 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. The first day of class will meet at the Lamar–Buffalo Ranch at 8:00 am and on the last day of class will return to the trailhead around 3:00 pm. *Participants provide their own backpacking gear and food. A complete equipment list will be provided in the student packet. Participants need to secure their own campsite at Slough Creek or Tower Fall or lodging in the Silver Gate/Cooke City, Montana, area. Institute cabins will not be available.*

GRIZZLY BEAR ECOLOGY & MANAGEMENT: 609

June 7–10

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

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 ongoing 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. Warm-layered clothing is essential. The course will begin on Friday evening, June 7, at 6:00 pm. The course will end by noon on Monday, June 10. *Fee includes \$15 for course materials.*

ECOSYSTEM GEOLOGY: LAND SKILLS FOR SURVIVAL: 610

June 8–9

\$98 (Member's fee \$88)

Location: Lamar–Buffalo Ranch

Limit: 15

Credit available: U, 1 semester hour, MSU

Instructor: Wayne Hamilton, Ph.D.

NEW

Each species of vegetation and wildlife has niche requirements. Land snails do not survive where soil alkalinity is low, sedge and cottonwood do not germinate in the absence of abundant spring moisture, and rodents prefer silty, south-facing slopes. For insentient life perhaps habitat choices are accidental, while higher-order organisms may exercise choice in selecting habitat. For us, as humans, there can be no questions that ecosystem knowledge contributes to success.

This field course looks at basic properties of the earth, at natural processes, and concepts directly applicable to success of various life forms. It looks, too, at quality of life, and explores the exercise of choice that arises from knowledge. Our ancestors lived close to the land, accumulating a lore that contributed to survival. Surely now it is vital that these skills be retained and sharpened. The course will begin at 9:00 am on June 8 at the Lamar facility.

BEARS: FOLKLORE & BIOLOGY: 611

June 11–13

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

Location: Lamar–Buffalo Ranch

Limit: 15

Credit available: U, 1 semester 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. The course will begin at the Lamar facility at 9:00 am on June 11 and end late afternoon on June 13.

"there is a majestic harmony in the whole"

– Nathaniel P. Langford

The Discovery of Yellowstone Park, 1870

MAMMALS GREAT & SMALL: 612

June 11-15 \$225 (Member's fee \$215)

Location: Lamar-Buffalo Ranch Limit: 15

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

Instructor: Don Streubel, Ph.D.

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, and possibly wolves, 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. The course will meet at the Lamar facility at 8:30 am on June 11, and end late afternoon on July 15.



Photo by Pam Gontz

FLY FISHING THE WEST SIDE: 613

June 14-16 \$180 (Member's fee \$170)

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. Class will meet the first day at 8:30 am in West Yellowstone. A Yellowstone National Park fishing permit is required.

BIRDING YELLOWSTONE: 614

June 14-16 \$107 (Member's fee \$97)

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 14, with introductions and a session on birding in Yellowstone.



Photo by Pam Gontz

BEARS: BONES, SIGNS & STORIES: 615

June 17-21 \$252 (Member's fee \$242)

Location: Lamar-Buffalo Ranch Limit: 15

Credit available: U, 1 semester hour, MSU or U of MT

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. The course will begin at the Lamar facility on June 17 at 9:00 am. Tuition fee includes \$15 for materials and handouts.

BIRDS OF YELLOWSTONE: 616

June 17-21 \$237 (Member's fee \$227)

Location: Lamar-Buffalo Ranch Limit: 15

Credit available: U or G, 1 semester 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. The course will begin at 9:00 am on Monday, June 17, at the Lamar facility. Fee includes course materials and boat trip on Yellowstone Lake.

WILD EDIBLE PLANTS & MEDICINAL HERBS: 617
 June 21-23 \$160 (Member's \$150)
 Location: Squirrel Meadows Area, Targhee National Forest, Idaho Limit: 15
 Credit available: U, 1 semester hour, U of MT
 Instructors: Wayne Phillips & Robyn Klein

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. The course will begin at 9:00 am in Ashton, Idaho. Expect short, leisurely walks from 1/2 to 2 miles with an elevation gain/loss of 300 feet or less. *Participants should come prepared to camp out, or may choose to stay in a motel in Ashton, which is less than an hour away. Fee includes \$10 for course materials. This is one in a series of four wildflower classes; see also course numbers 718, 723, 726.*



WILDFLOWERS: WEEKEND FIELD JOURNAL SERIES #2: 618
 June 22-23 \$98 (Member's fee \$88)
 Location: Mammoth Hot Springs Limit: 15
 Instructor: Carolyn Duckworth **NEW**

The second of five weekend classes designed as a quick introductory sampling of journal-keeping approaches; each one can be taken independently. In this class, you can indulge yourself in a riot of color and variety as we focus on two spectacular wildflower areas near Mammoth. You will learn the role that field journals play in habitat preservation, and how to provide the necessary detail through careful notes and field sketches. Expect moderate hikes of one to five miles each day. Based at Mammoth; carpooling probably will be required. The course will begin at 9:00 am on June 22 at the Mammoth Hot Springs Visitor Center. For other courses in this series, see course numbers: 606, 722, 803, and 904.

For a more in-depth experience of the written and drawn field journal, join us in Lamar Valley for *Going to the Source: the Art of the Field Journal*, course number 624.



Photo by Pam Gontz

THE EVOLUTION, ECOLOGY, & FUTURE OF THE WOLF FAMILY: 619

June 22-24 \$165 (Member's fee \$155)
 Location: Lamar-Buffalo Ranch Limit: 15
 Credit available: U, 1 semester hour, MSU,
 U, 1 semester hour, U of MT
 Instructors: Elaine Anderson, Ph.D., &
 James Halfpenny, Ph.D.

Dire, 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 cohabitants. 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. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Fee includes \$15 for course materials.*

YELLOWSTONE PARK & THE FUR TRADE: EXPLORING THE GREAT MOUNTAIN PASSES OF THE ROCKIES TRAVERSED BY THE MOUNTAIN MEN: 620

June 24-27 \$207 (Member's fee \$197)
 Location: Lamar-Buffalo Ranch Limit: 18
 Credit available: U or G, 2 semester hours, BYU
 Instructor: Fred R. Gowans, Ph.D. **NEW**

A specialized study of the Rocky Mountain fur trade centered around present-day Yellowstone National Park will be the topic of discussion of this course beginning at the Yellowstone Institute. Following the initial two days at the Institute, the final portion of this four-day course will involve a two-day field trip commencing and terminating at Jackson, Wyoming.

The emphasis of the course will be directed toward the geography and history of the mountain men's wandering within the park's boundaries and an in-depth study of the mountain passes that permitted the entry of the trappers into this isolated area that is today Yellowstone Park. The history and geography of such mountain passes as Two Ocean, Teton, and Conant will be discussed on the field trip with the actual crossing of Togwotee and Union Passes. Visiting the locations of Brooks Lake, Pacific Creek, Buffalo Fork, Gros Ventre River, Hoback Canyon and the Green River Rendezvous site will be but some of the highlights of the field trip.

You will be walking in the footsteps of the legendary heroes of the American fur trade: John Colter, Davey Jackson, Jedediah Smith, Daniel T. Potts, William Sublette, Warren A. Ferris, Osborne Russell, Father DeSmet, John Hoback, Jim Bridger, and Robert Campbell, plus many more. The spectacular setting at Brooks Lake and the view from Union Pass will be one that you will never forget. The course on the first day of class will meet at the Lamar facility at 8:00 am. *Fee includes course materials and van transportation for field trip. Fee does not include lodging. Students may stay at the Lamar cabins the nights of June 23 and 24. Students will need to make reservations at Jackson, Wyoming, on June 25 and at Dubois, Wyoming, on June 26. Rooms have been blocked both in Jackson and Dubois--contact registrar for motel names and numbers. Reservations for rooms should be made as early as possible.*

LAKES OF YELLOWSTONE BY CANOE: 621

June 24-28 \$387 (Member's fee \$377)
 Location: Shoshone Lake, Yellowstone Backcountry
 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 covered and an American Red Cross canoeing certification may be earned if desired. This trip is designed for beginners, and is of moderate physical difficulty, including a two-mile upstream pull of the canoes on the Lewis River, and travel in moderate winds. Class will start from the Lewis Lake campground boat dock on the morning of June 24 at 9:00 am. *Fee includes all canoeing equipment, group camping gear, and food.*

THE WOLF'S RETURN-MYTHOLOGY TO RECOVERY: 622

June 25-27 \$170 (Member's fee \$160)
 Location: Lamar-Buffalo Ranch Limit: 15
 Instructors: Brian Peck & Linda Miller

The wolves are back! Last year, for the first time since 1926, the wolf's song echoed through the Lamar Valley. This year will see three to six packs and we'll be there. Using slide shows, storytelling, expert speakers, and field trips (three- to five-mile hikes), 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. Join us for a howling good time as we welcome home the wolves of Yellowstone. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Tuition fee includes \$20 for materials and handouts.*

FIRE, ICE & FOSSIL FORESTS: 623

June 28-30 \$140 (Member's fee \$130)
 Location: Lamar-Buffalo Ranch Limit: 15
 Credit available: U, 1 semester 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 2 million years, discussion will focus on glacial ice and volcanic explosions. The course will involve field trips 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. Hikes are a relaxed pace but at times in steep terrain. Specimen Ridge is an 800-foot climb in one-and-a-half miles. Mt. Washburn climbs 1,400 feet over a 3 mile distance to the 10,000-foot summit. The course on the first day of class will meet at the Lamar facility at 9:30 am.



Photo by Don Nelson

GOING TO THE SOURCE: THE ART OF THE FIELD JOURNAL: 624

June 29–July 2

\$182 (Member's fee \$172)

Location: Lamar–Buffalo Ranch

Limit: 15

Instructors: Hannah Hinchman

A field journal is one of the best bridges between a person and the land. This four-day course at the Buffalo Ranch will introduce a kind of journal keeping that mixes visual and verbal, exploration and introspection, to create a new way of entering the world of nature. The pattern of our days includes early morning rambles, as well as watercolor sessions at dusk; classroom instruction in drawing and writing skills, as well as field excursions into some of Yellowstone's extraordinary habitats. We map the sky and the ground, meet creatures, plants, and landforms, and learn to transcribe their (and our) stories in new ways. The course is designed to allow ample time for solitude, or for browsing in the instructor's extensive library, balanced by the creative energy of an enthusiastic group of people in a magical place. Hikes of moderate length can be expected. The course on the first day of class will meet at the Lamar facility at 10:00 am.

BATS OF YELLOWSTONE PARK & VICINITY: 701

July 1–3

Limit: 15

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

Location: Lamar–Buffalo Ranch

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. The course on the first day of class will meet at the Lamar facility at 1:00 pm. *Fee includes \$20 for materials.*



Photo by Pam Gontz

HORSEPACKING: FLORA & FAUNA OF YELLOWSTONE–HELLROARING: 702

July 1–5 (see description on pg 30)

THE FLIGHT OF THE NEZ PERCE THROUGH YELLOWSTONE–1877: 703

July 5–6

\$98 (Member's fee \$88)

Location: Lamar–Buffalo Ranch

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. The course on the first day of class will meet at the Lamar facility at 9:00 am.



Photo by Pam Gontz

YELLOWSTONE BIRDS OF PREY: 704

July 5–7

\$165 (Member's fee \$155)

Location: Lamar–Buffalo Ranch

Limit: 15

Credit available: U, 1 semester 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. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Fee includes course materials and boat trip on Yellowstone Lake.*

FAMILY HORSEPACKING–DOING THINGS

TOGETHER: 705 July 6–9 (see description on pg 30)

THE LAST OF THE WILD RIVERS: 706

July 7–8

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

Location: Lamar–Buffalo Ranch

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. With a half-day raft trip, you will grasp the large measure of the history of Wyoming and Montana that is connected to the Yellowstone, from the first inhabitants 10,000 years ago to twentieth-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. The course on the first day of class will meet at the Lamar facility at 9:00 am. *A half-day raft trip down the Yellowstone River from Gardiner, Montana, is included in the tuition.*

AQUATIC INSECTS OF YELLOWSTONE: 707

July 8-9 \$113 (Member's fee \$103)

Location: Lamar-Buffalo Ranch Limit: 15

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

Instructor: Robert Anderson, Ph.D.

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. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Fee includes \$15 for course materials.*



Photo by Pam Gontz

INTERPRETING YELLOWSTONE WITH "RANGER

TED": 708 Adult-\$130 (Member's fee \$125)

July 8-10 Child-\$ 67 (Member's fee \$ 62)

Location: Fishing Bridge Limit: 20

Credit available: G, 1 semester hour, BYU

Instructor: Ted J. Parkinson

In this family course, 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. The course on the first day of class will meet at the Fishing Bridge Visitor Center at 8:30 am. *People who wish to camp may make reservations for a site at Bridge Bay Campground through TW Recreational Services at 307-344-7311.*

PHOTOGRAPHING NATURE IN YELLOWSTONE COUNTRY #1: 709

July 9-12 \$195 (Member's fee \$185)

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! The course on the first day of class will meet at the Lamar facility at 9:00 am. *Lab film processing will take place; student will be responsible for paying for processing. Fee includes \$5 for course materials.* If you are looking for an intermediate photography course, see *Photographing Nature in Yellowstone Country #2*, course number 715.

BUTTERFLIES OF GREATER YELLOWSTONE: 710

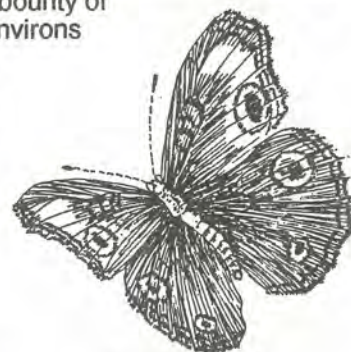
July 10-12 \$155 (Member's fee \$145)

Location: Lamar-Buffalo Ranch Limit: 15

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

Instructor: Robert Anderson, Ph.D.

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 bluebirds 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. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Fee includes \$15 for course materials.*



P. Stenbury

WOMEN & YELLOWSTONE—A HISTORICAL**PERSPECTIVE: 711** \$103 (Member's fee \$93)

July 13–14 Location: Lamar–Buffalo Ranch

Instructor: Karen Krieger Limit: 15

This course examines Yellowstone as seen by women in the late nineteenth and early twentieth 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 and a stagecoach ride will include exploring old tourist sites, cemeteries, and natural features which encourage an understanding of how women interacted with Yellowstone. Short hikes of up to a mile can be expected. The course on the first day of class will meet at the Lamar facility at 8:30 am. *Fee includes a stagecoach ride based at Roosevelt Lodge.*

THE 24-HOUR EXPERIENCE: AN ENVIRONMENTAL ENCOUNTER: 712 \$105 (Member's fee \$95)

July 13–14 Location: Lamar–Buffalo Ranch

Instructor: Don Nelson Limit: 10

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, catnaps, and philosophizing, you will live the flow of the wilderness through a 24-hour period. The three-mile route is over rolling, but not steep terrain and includes a stream crossing.

Details of the "experience" and an annotated equipment list will be sent ahead of time. The course on the first day of class will meet at the Lamar facility at 8:30 am. *The course fee includes a backcountry dinner and breakfast.*

EXPLORING THE YELLOWSTONE ECOSYSTEM: 713

July 13–15 \$140 (Member's fee \$130)

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 13 through early afternoon July 15.

YELLOWSTONE HERITAGE HORSEPACK:**AN EXPERIENCE WITH WILDLANDS VALUES: 714**

July 14–18 (see description on pg 31)



Photo by Pam Gontz

PHOTOGRAPHING NATURE IN YELLOWSTONE COUNTRY #2: 715

July 14–18 \$205 (Member's fee \$195)

Location: Yellowstone Area Limit: 15

Instructor: Sandra Nykerk **NEW**

This four-day intermediate field photography course will continue the development of skills learned in *Photographing Nature in Yellowstone Country #1* (course number 709) by focusing on gaining shooting experience in the field. We will base at three different locations in the park and each day will be spent abroad in photographing Yellowstone; all of our learning will be through hands-on experience. In the four days we'll work with the thermals of Mammoth, the Grand Canyon of the Yellowstone, Yellowstone Lake, and the beautiful colors of the Old Faithful area, allowing for the serendipity of wildlife. A wide variety of subjects will be covered, from selecting the right film and lens for your subject, to dealing with environmental conditions in the field. Consideration will be given to the continuing development of personal vision and creativity and the importance of natural history knowledge to the nature photographer. You need not have taken *Photographing Nature in Yellowstone Country #1* to take this course but it will be assumed that you have a working understanding of photographic principles and a fundamental familiarity with your equipment. The course will begin at 7:00 pm on July 14 in Mammoth and end around 5:00 pm on July 18. *Participants need to secure their own campsites or lodging. We recommend the following dates and areas for camping or lodging as follows: July 14 and 15--the Mammoth area; July 16--the Yellowstone Lake area; July 17--Old Faithful area. Fee includes \$5 for course materials.*

MAMMAL TRACKING: 716

July 15–18 (see description on pg 8)



Photo by Pam Gontz

HEADWATER WATERSHED ECOLOGY: 717

July 16-18 \$140 (Member's fee \$130)

Location: Lamar-Buffalo Ranch Limit: 15

Credit available: U or G, 1 semester 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 study a Yellowstone drainage and 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. You will learn how to conduct a "stream walk" survey as part of the course. This survey could be used for teachers or citizen groups interested in stream monitoring. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Fee includes \$5 for course materials.*

WILDFLOWERS OF YELLOWSTONE: 718

July 19-20 \$110 (Member's fee \$100)

Location: Lamar-Buffalo Ranch Limit: 15

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. Most walks are two to three miles with up to 600-foot elevation gains. More strenuous walks vary with group interest. The course on the first day of class will meet at the Lamar facility at 9:00 am. This is one in a series of four wildflower classes; see also course numbers 617, 723, and 726. *Fee includes \$10 for course materials.*



Photo by Pam Gontz



Photo by Don Nelson

GEYSERS, MUDPOTS, & HOT SPRINGS: 719

July 19-21 \$165 (Member's fee \$155)

Location: Old Faithful Limit: 15

Credit available: U, 1 semester 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 19 and then proceed to the Old Faithful area for a full day of geyser gazing on July 20. Norris Geyser Basin and other sites will be visited on July 21, 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.*

YELLOWSTONE PLACE NAMES:**THE NOMENCLATURE OF WONDERLAND: 720**

July 19-21 \$140 (Member's fee \$130)

Location: Lamar-Buffalo Ranch Limit: 15

Instructor: Lee Whittlesey

This three-day class will acquaint you with the origins and history of some of the 2,000 active and 2,000 obsolete place names of natural features in Yellowstone National Park. Included will be biographical information on the historic persons for whom many natural features 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. The course on the first day of class will meet at the Lamar facility at 8:30 am.

**HORSEPACKING: THE NEZ PERCE TRAIL—
TRADITIONAL ROUTE, UPPER LAMAR: 721**
July 19-23 (see description on pg 31)

WILDFLOWERS: WEEKEND FIELD JOURNAL**SERIES #3: 722****July 20-21****\$98 (Member's fee \$88)****Location: Canyon Area****Limit: 15****Instructor: Carolyn Duckworth**

The third of five weekend journal classes designed as a quick introductory sampling of journal-keeping approaches; each one can be taken independently. This session is held in the heart of wildflower season, offering us many choices of where to explore. You will experience how field journals can serve as records of our walks as we practice observing details, taking accurate field notes, and making quick sketches. Expect moderate hikes of one to five miles each day. This course on the first day of class will meet at the Canyon Visitor Center at 9:00 am. For other courses in this series, see course numbers: 606, 618, 803, and 904.

For a more in-depth experience of the written and drawn field journal, join us in Lamar Valley for *Going to the Source: the Art of the Field Journal*, course number 624.

WILDFLOWERS OF THE HIGH COUNTRY (LLAMA TREK): 723**July 21-25****\$390 (Member's fee \$380)****Location: Beartooth Backcountry****Limit: 10****Credit available: U, 1 semester 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 5-10 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 617, 718, and 726. The class will begin at 3:00 pm on July 21 at the Lamar facility. The hikes each day will vary from 4-6 miles, or more, with elevation gains of 500 to 2,000 feet. More than half of these miles will be off-trail through rugged boulder strewn terrain with numerous stream and snowbank crossings, at elevations of 9,000 to 11,000 feet. *Enrollees must bring tent, sleeping bag, pad, and pack. Fee includes group equipment, food, and llama packing. A camp cook will prepare meals.*



Photo by Don Nelson

HOT ROCKS, HOT WATERS & GREAT SHAKES: YELLOWSTONE AS A NATURAL GEOLOGICAL LABORATORY: 724**July 22-26****\$237 (Member's fee \$227)****Location: Lamar-Buffalo Ranch****Limit: 15****Credit available: U or G, 1 semester hour, U of MT****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. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Fee includes \$10 for handouts to be distributed in class.*

WILDFLOWER ART: 725**July 23-25****Limit: 15****\$150 (Member's fee \$140)****Location: Lamar-Buffalo Ranch****Instructor: Peg Steunenber**

To know it is to draw it--an in-depth exploration of the wildflowers of Yellowstone. Morning sessions include hiking, field sketching, and field observation. Afternoon sessions assist artists in developing the field sketches, transferring the drawing to their preferred working surface, and experimenting with the medium of choice. Demonstrations in graphite, colored pencil, pen and ink, and mixed media will be offered. The delights and dilemmas of working from photographs will be discussed. Free time in the evenings can be spent finishing artwork or reading up on illustration techniques in various books supplied by the instructor. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Fee includes \$5 for course materials.*

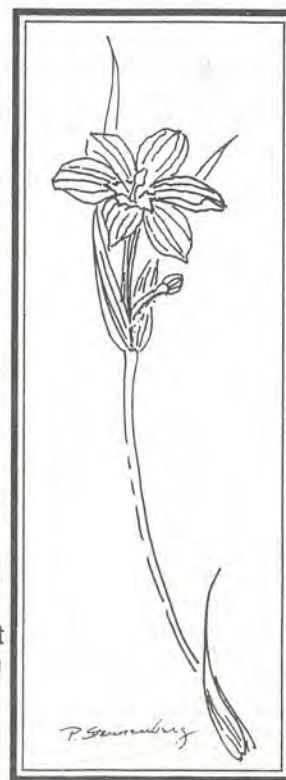




Photo by Pam Gontz

ALPINE WILDFLOWER WALKS: 726

July 26-28 \$115 (Member's fee \$105)

Location: Lamar-Buffalo Ranch Limit: 15

Credit available: U, 1 semester 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. The course on the first day of class will meet at the Lamar facility at 3:00 pm. The hikes each day will vary from 4-6 miles, or more, with elevation gains of 500 to 2,000 feet. More than half of these miles will be off-trail through rugged boulder strewn terrain with numerous stream and snowbank crossings, at elevations of 9,000 to 11,000 feet. This is one in a series of four wildflower classes; see also course numbers 617, 718, and 723. Fee includes \$10 for course materials.

OBSERVING YELLOWSTONE WITH THE ARTIST'S EYE: 727

July 27-31 \$225 (Member's fee \$215)

Location: Lamar-Buffalo Ranch

Instructor: Alan McKnight Limit: 15

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 a good way from the roads. Suggestions on what to bring will be sent to each person who registers. The course on the first day of class will meet at the Lamar facility at 9:00 am.

YELLOWSTONE'S WAYSIDE HISTORY: 728

July 29-31 \$140 (Member's fee \$130)

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 daylong 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. The course on the first day of class will meet at the Lamar facility at 9:00 am.

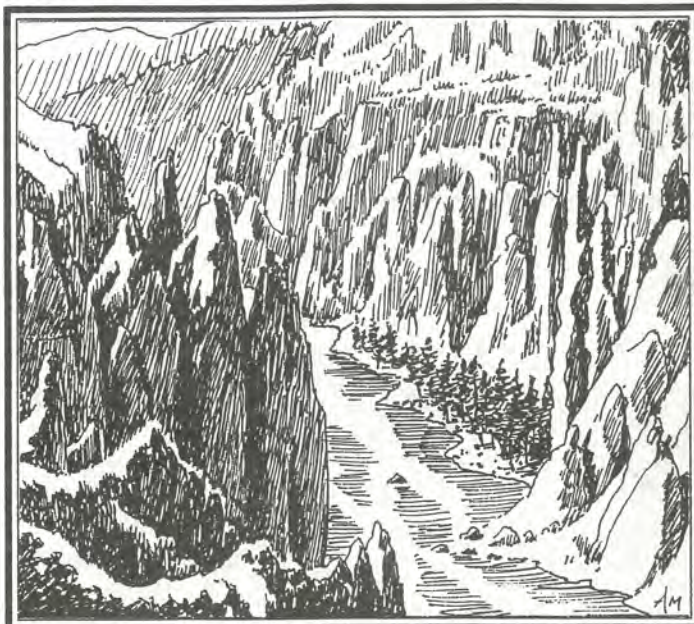
**YELLOWSTONE BEFORE THE TOURISTS: PREHISTORIC PEOPLE OF THE PARK: 801**

August 2-4 \$140 (Member's fee \$130)

Location: Lamar-Buffalo Ranch Limit: 15

Instructor: Susan Hughes, Ph.D.

For 11,000 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 drew prehistoric people. In a field setting, we will examine the early 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. The course on the first day of class will meet at the Lamar facility at 9:00 am.



by Alan McKnight

FLY FISHING THE CATCH-AND-RELEASE WAY**August 2-4** Less experienced: 802 Limit: 8**August 9-11** More experienced: 810 Limit: 9

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

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. The class will divide into three groups, with 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. Both classes will meet the first day at 8:30 am at the Lamar facility. A *Yellowstone National Park fishing permit is required.*

EXPLORING THE BECHLER & BEYOND: WEEKEND FIELD JOURNAL SERIES #4: 803**August 2-4** \$108 (Member's fee \$98)**Location:** Squirrel Meadows Area, Targhee National Forest, Idaho**Instructor:** Carolyn Duckworth

NEW

The fourth of five weekend journal classes designed as a quick introductory sampling of journal-keeping approaches; each one can be taken independently. This session is a full two-day class based in an area of the Greater Yellowstone Ecosystem where people have gathered for centuries--Squirrel Meadows in the Bechler region. As we explore this rich area and keep our own field journal, we'll learn how field journals can contribute to preserving open space. The course will begin on August 2 at 7:00 pm at the Squirrel Meadows Cabin; however, participants may come as early as 5:00 pm to set up camp. For other courses in this series, see course numbers: 606, 618, 722, and 904.

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.*

HORSEPACKING: TRAPPER TRAILS THROUGH THE THOROUGHFARE WITH HISTORIAN FRED GOWANS: 804**August 3-7** (see description on pg 31)**LIFE AT THE EXTREMES: 805****August 5-7****Location:** Lamar-Buffalo Ranch**Credit available:** U, 1 semester hour, MSU**Instructors:** Harold Picton, Ph.D. & Don White Ph.D.

NEW

Life in Yellowstone takes place within a wide range of environmental extremes. The demands placed on life from heat and pressure, to ice and altitude, each result in adaptations in living organisms. This course is an adventure in ecological physiology. The class will visit (where possible) the extreme environments occupied by plants, animals, and other organisms in and around Yellowstone Park. Experiments and demonstrations will be done to give insight into the adaptations required for survival in environments with: heat, cold, pressure, altitude, wind, snow, low nutrients, toxic minerals, and other factors. The course on the first day of class will meet at the Lamar facility at 9:00 am.

CARNIVORES OF THE GREATER YELLOWSTONE ECOSYSTEM: 806**August 5-9****Location:** Lamar-Buffalo Ranch**Credit available:** U or G, 2 semester hours, ISU**Instructor:** Tim Clark, Ph.D.

Limit: 15

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 (for example, 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. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Fee includes \$15 for course materials.*

[course descriptions continue on page 27]

The Institute Store

These items are available at the Yellowstone Institute Store
located at our facility in Lamar Valley,
and by mail through the Yellowstone Institute.
Yellowstone Association members receive a 15% discount on all purchases.
All proceeds contribute importantly to the offsetting of program expenses.

Short Sleeve Items

Anvil Cotton Deluxe Short Sleeve Henley --
100% extra heavyweight 7.5 oz. cotton, generous
cut, three woodtone buttons. **Colors:** Ivy (green),
Sand (tan), Slate (blue). **Sizes:** M, L, XL, XXL.
#130001\$22.00

DesertWash Weathered Short Sleeve Polos --
100% heavyweight cotton pique sport shirt, full, true
sizing, two-button placket, woodtone buttons dyed
to match, drop tail with side vents. **Colors:** Moss
Green, Brick, Blue Granite. **Sizes:** M, L, XL, XXL.
#130002\$34.00

Anvil Short Sleeved T-Shirts --
100% heavyweight pre-shrunk cotton, pigment-
dyed, garment-washed tee, generously cut.
Colors: Smoke (dark gray), Moss Green, Brick,
Blue Granite. **Sizes:** L, XL, XXL
#130000\$16.00



Left to right: Long Sleeve Henley, Long Sleeved Sweatshirt, Short
Sleeved T-Shirt.

Photo by Pam Gontz



Yellowstone Institute logo which will be
embroidered on all our apparel.

Long Sleeve Items

Crystal Springs Long Sleeve Denim Shirt --
100% laundered cotton denim, banded collar with
1/4" top-stitch, double back yoke, left-chest pocket,
shirt tail hem, clean-finished placket with 6
woodtone buttons, button cuff, single-needle edge
stitching on shoulder and cuffs. **Colors:** Black,
Blue, Green. **Sizes:** M, L, XL, XXL.
#130003\$39.00

Anvil Cotton Deluxe Long Sleeve Henley --
100% extra heavyweight 7.5 oz. cotton, generous
cut, three woodtone buttons, long-hemmed
sleeves. **Colors:** Bark (brown), Black, Cranberry,
Slate (blue). **Sizes:** M, L, XL, XXL.
#130021\$28.00

Thermal 3-Button Henley --
100% cotton, pigment-dyed, three-button styling,
long hemmed, sleeves. **Colors:** Claret (bur-
gundy), Meadow (green), Nearly Navy.
Sizes: L, XL. #130008\$28.00

Jerzees 9 oz. Long Sleeved Sweatshirt --
50% cotton, 50% polyester, ribbed collar, cuffs and
waistband, fully overseamed, set-in sleeves.
Colors: Sea Teal, Winestone, Maroon.
Sizes: M, L, XL, XXL.
#130006\$19.00

Outerwear

Polartec Vest --

Keeping your arms free this plush Polartec 200 vest keeps you warm without restriction. **Colors:** Plum, Forest, Black. **Sizes:** M, L, XL, XXL.

#130004\$43.00

Polartec Pullover --

This pullover, in 13 oz. non-pilling plush Polartec 200, will move easily with every swing. Supplex wind flap and zippered pockets have been added for contrast. The drop shoulders offer full mobility. **Colors:** Plum, Forest, Black.

Sizes: M, L, XL, XXL.

#130005\$59.00

Polartec Zippered Coat --

This full zip up coat is a versatile 13 oz. Polartec 200 jacket ideal for any sport or casual wear. Full front zipper allows for easy on and off. **Colors:** Royal, Navy, Black. **Sizes:** M, L, XL, XXL.

#130009\$65.00

Racer Windbreaker Coat --

Great for breezy afternoons, this good looking, comfortable Supplex jacket has a longer cut and is oversized for easy movement. Elastic at the waist and cuffs is comfortable and nonbinding. Two convenient pockets. **Two tone colors:** Hunter-Navy, Maroon-Black, Putty-Black. **Sizes:** M, L, XL. (XXL available; allow four weeks for delivery)

#130010\$55.00

Mulligan Windbreaker Pullover --

This lined, Supplex wind shirt with jacquard knit collar, cuffs and waistband moves easily.

Colors: Black, Hunter, Maroon. **Sizes:** M, L, XL. (XXL available; allow four weeks for delivery)

#130013\$43.00



Left to right: Windbreaker Coat, Polartec Vest, Polartec Zippered Coat.

Photo by Pam Gontz

All Sport Windbreaker Pant --

The perfect compliment for the Supplex jacket and pullover. This pant features a full athletic cut, elastic drawstrings and waist, and two side pockets.

These unlined pants include 12" ankle zippers for easy maneuvering over shoes. **Color:** Navy.

Sizes: M, L, XL, XXL. #130022\$30.00

Jerzees 9 oz. Side Pocket Fleece Sweat Pant --

50% cotton, 50% polyester, covered elastic waist, inside drawcord, side entry bag pockets, wide elastic cuffs. **Color:** Forest. **Sizes:** M, L, XL, XXL. #130023\$20.00



Left to right: Twill Jockey Hat, Pigment Dyed Low Profile Cap, Fahrenheit Pigment Dyed Cap.

Photo by Pam Gontz

Hats

Brushed Canvas Hat --

Low crown baseball shape in brushed canvas. Crown and undervisor is tan with dark green visor and button. Sewn eyelets and plastic tab adjustable back. #130024\$12.00

Brushed Twill Jockey Hat --

Unstructured jockey shape in brushed twill with matching undervisor and ponytail stretch back. **Colors:** Dark Green, Dark Maroon.

#130025\$12.00

Pigment Dyed Low Profile Cap --

100% cotton, heavy duty leather strap with disappearing tail, and solid antique brass closure.

Colors: Forest Green, Purple, and two tone Khaki crown with forest green. #130026\$12.00

Anvil Cotton Deluxe Fashion Cap --

100% extra heavyweight cotton, on seam cover stitching, six panel crown, solid body, velcro strap closure. **Colors:** Black, Mountain Rose.

#130027\$12.00

Fahrenheit Pigment Dyed Cap --

100% cotton pigment dyed washed cap with genuine leather backstrap. The soft fabric and the relaxed shape make this the perfect fitting cap.

Colors: Blue, Charcoal, and two tone dark green and cactus (lighter green). #130028\$12.00

Yellowstone Institute Items — Useful gifts for yourself and others

Vinyl Clip Folder -- Folder features an expanded pocket design and includes a pad of paper. Brown vinyl with gold imprinting featuring the Lamar-Buffalo Ranch bunkhouse as shown on page 5.

#130032\$9.25

Sport Bottle -- Handy push-pull cap with screw on lid. White with black Yellowstone Institute and Yellowstone Association logos imprinted on opposite sides.

#130034\$2.40

Deluxe Auto Travel Mug -- Foam-insulated 12 oz. mug keeps beverages hot/cold longer and fits most built-in vehicle cup holders. Features a closable lid with locking mechanism that will resist spills. Granite with black Yellowstone Institute and Yellowstone Association logos imprinted on opposite sides.

#130035\$6.00

12 oz. Thermal Mug -- Double-wall insulation, made of durable polypropylene plastic. Granite with black Yellowstone Institute and Yellowstone Association logos imprinted on opposite sides.

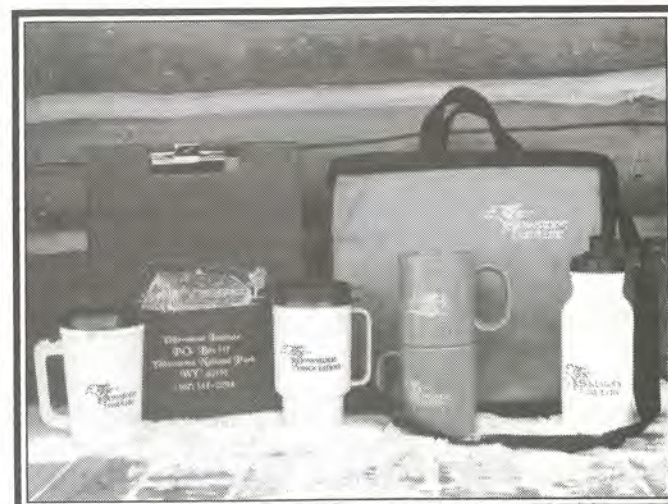
#130016\$3.00

Plastic Thermal Coffee Mug -- This 12 oz. mug is made of durable yet lightweight plastic and is shatter-proof. Thermal feature provides four times the insulative qualities found in ceramic mugs, and is microwavable. Teal green with tan imprint of a Lamar-Buffalo Ranch log cabin (shown on catalog cover) on one side and the Yellowstone Institute logo on the other.

#130036\$3.50

Field Notebooks -- A Cordura case covering an 8.5" x 11" 3-ring binder. There are pockets for pens, business cards, calculator, and more; secured with a large zipper. It keeps those notes in order and in a protected easy to find place. Features a full size zippered pouch pocket on the outside and a detachable shoulder strap. Case is made with luggage quality Cordura which is water-proofed and extremely durable. Colors: Teal, Burgundy, Forest Green, Purple, and Royal Blue, all with black trim. Imprinted with Yellowstone Institute logo.

#130014\$50.00



Left to right: 12 oz. Thermal Mug, Vinyl Clip Folder, Deluxe Auto Travel Mug, Field Notebook, Thermal Coffee Mug, Sport Bottle.

Photo by Pam Gontz

Yellowstone Institute Clothing and Gift Item Order Form -- YI/C96

Item #	Description	Size	Color	Alternate Color Choice	Qty	Price	Total

Returns -- If you aren't satisfied, merchandise can be returned for exchange or refund within two weeks of its receipt. Shipping fees are not refundable. **Substitutions** -- To serve you better we reserve the right to substitute goods of equal or better value, as necessary.

Amount of Order	US Postage and Handling
from \$ 0.00 to 24.99	\$3.75
from \$25.00 to 34.99	\$4.25
from \$35.00 or more	\$5.00

Subtotal _____
☐ Check here if entitled to a 15% Member's discount _____
 Wyoming residents only: add 4% sales tax _____
 Postage and Handling _____
TOTAL _____

For Foreign Orders we suggest you use your MasterCard or Visa, specify surface or air delivery, and we will add the postage as needed. Please be aware foreign postage is significantly higher than domestic. For example, a 2 pound package airmail to Europe would cost \$12.00; surface \$4.75.

Name _____
 Address _____
 City _____
 State _____
 Zip _____
 Daytime phone _____

Payment by: ☐ Check ☐ MasterCard
☐ Visa ☐ Discover

Credit Card Number
 | | | | | | | | | | | | | | | |

Expiration Date | | | - | | |

Signature _____

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 illustrated handbook will let you discover yourself through writing and drawing, includes a blank journal for your writing and illustrations. 160 pages.

#010121\$19.95

Bears of Yellowstone, Schullery. Myths and facts about park bears, their natural history and the evolution of bear management in the park. 263 pages, 60 illustrations.

#010018\$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. The purpose of this book is to aid your enjoyment of Yellowstone's remarkably varied birdlife. 171 pages. #010036\$13.95

Death in Yellowstone—Accidents and Foolhardiness in the First National Park, Whittlesey. Yellowstone's historical archivist details 300 deaths, caused by everything from earthquakes, bear attacks, poison gas and lightning. 276 pages. #010411\$16.95

Field Guide to Mammal Tracking, 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. #010254\$14.95

Mountain Man & Grizzly, Gowans. An illustrated collection of early observations and stories about the great bear. 210 pages. #010220\$14.95

Mountain Time—A Yellowstone Memoir, Schullery. Updated and featuring a new afterword, this third edition is an insider's view of Yellowstone -- a natural jewel and national treasure. Mr. Schullery is funny and insightful as he examines the controversies and compromises that surround the ideas of what wilderness is in our time. 220 pages.

#010137\$13.95

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.

#010258\$12.50

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.

#010031\$12.95

Books by Institute Instructors (cont.)

The Yellowstone Story, Haines. Two-volume history classic on Yellowstone Park with black and white photos.

Volume 1 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.

#010235\$14.95

Volume 2 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. #010236\$14.95

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. #010321\$16.95

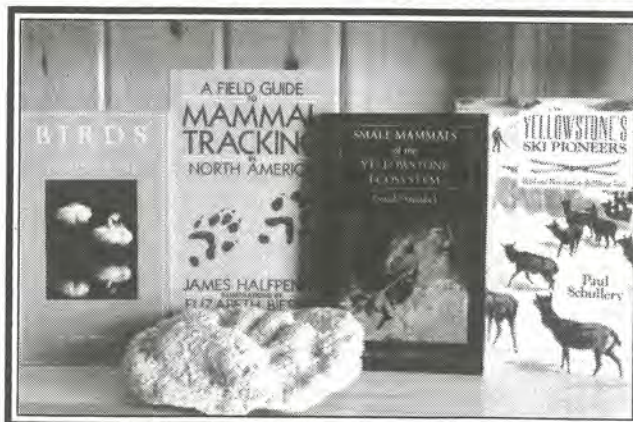


Photo by Pam Gontz

Plants

Alpine Wildflowers of the Rocky Mountains, Duft and Moseley. This guide covers the alpine zone along the Rocky Mountain crest from the Canadian Rockies, south to northern New Mexico. Includes color photographs and species descriptions of 300 flowering plants, timberline trees and ferns. 200 pages. #010408\$14.00

Plants of Yellowstone and Grand Teton, Shaw. This book includes color photos and descriptions of park vegetation from trees to flowering plants. 160 pages. #010299\$8.95

Wildflowers of Yellowstone and Grand Teton, Shaw. A booklet of color photos with descriptive text. 56 pages. #010306\$6.95

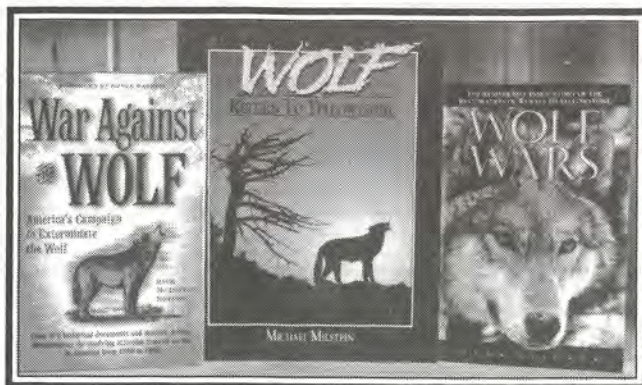


Photo by Pam Gontz

Wolves

Society of Wolves, McIntyre. This publication offers up-to-date information on wolves and insights on political issues surrounding this much-talked-about animal as well as the history of human attitudes toward the wolf. 127 pages. #010120\$29.95

War Against the Wolf, McIntyre. Historic documents, journal entries, essays, profiles, and letters put into context North America's obsession with exterminating its wolf population. Historic photos, maps, index and resource list. 495 pages. #010418\$24.95

Wolf Return to Yellowstone, Milstein. This book takes you along the ruthless campaign decades ago to exterminate wolves from the American West and, finally the decision to bring them back. 96 pages. #010414\$14.95

Wolf Wars, Fischer. This intriguing story unfolds how the Yellowstone wolf was hated into extinction, the struggle with Congress and welcomes the master predator's return. 183 pages. #010015\$12.95

Mammals

Large Mammals, Craighead. This 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. #010247\$1.95

Peterson Field Guide to Mammals, Burt and Grossenheider. This guide describes 380 species with information such as size and weight, as well as other pertinent information on each. It also includes color illustrations and line drawings of 230 animals and range maps where each mammal occurs. 289 pages. #010255\$14.95

Peterson First Guide to Mammals, Alden. For the beginning naturalist, this is a simplified field guide to Mammals of North America. Includes information on most common mammals with full color illustrations and descriptions on each mammal. 128 pages. #010256\$4.95

Seasons of the Moose, Promack. This is the story of moose, told in a personal style that will engage your attention and your emotions. Through a combination of words, photographs, and drawings, this book demonstrates once and for all that moose are intelligent, powerful, and majestic animals. 96 pages. #010257\$17.95

Rocky Mountain Safari—A Wildlife Discovery Guide, Illg. Pinpoints precisely where such animals as moose, elk, black bear and mountain lion may be observed. Thirty-eight species are described here, from the majestic bighorn sheep to the diminutive and rarely-seen weasel. 88 pages. #010407\$9.95

Birds

Audubon Field Guide to North American Birds—Western Region, Udvardy. This field guide is fully revised with all new photographs. Descriptions of 544 western species have been brought up to date with the most recent American Ornithologists' Union listing. Illustrated with 676 full-color, high-quality nature photographs. 822 pages. #010034\$18.50

Birds of North America: A Guide to Field Identification, Robbins, Bruun, Zim and Singer. In this guide you will see exactly what you see in nature. Each bird is captured in full color with descriptive text on the facing page. 360 pages. #010035\$13.95

National Geographic Field Guide to Birds of North America. This completely updated second edition guide includes all species known to breed in North America. The index in this guide includes a check-off box beside the common-name entry for each species. Includes range maps and 220 plates. 464 pages. #010038\$21.00



Photo by Pam Gontz

Peterson Field Guide to Hawks, Clark and Wheeler. This guide includes 39 species of North American hawks and other diurnal raptors, including eagles, falcons and vultures. Color paintings and photos with detailed description of each species are included along with range maps showing where each species can be found. 198 pages. #010039\$15.95

Peterson Field Guide to Western Birds, Peterson. This third edition with new paintings, 441 new maps and new facing page format includes 165 full-color paintings showing over 1,000 birds from 700 species. The text has been updated and revised. 432 pages. #010040\$16.95

Peterson First Guide to Birds, Peterson. This guide contains 188 common and conspicuous birds of North America in full color illustrations and clear descriptions of each bird. 128 pages. #010041\$4.95

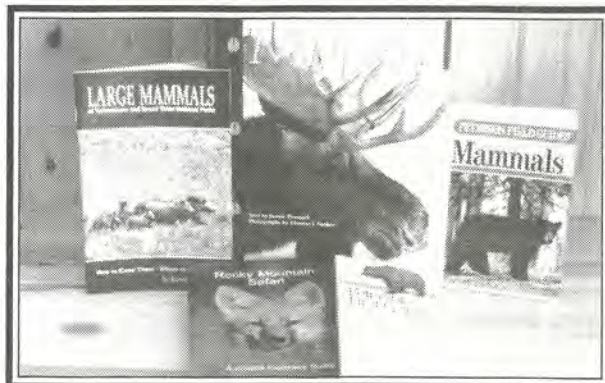


Photo by Pam Gontz

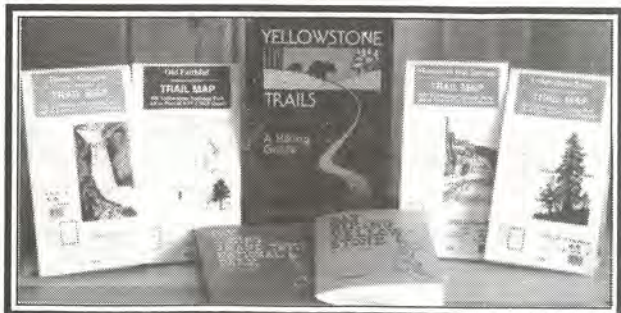


Photo by Pam Gentz

Hiking

Day Hiking Yellowstone, Carter. Complete descriptions of 20 great short hikes, including history, geology and wildlife facts, some maps. 80 pages. #010196\$3.95

Yellowstone Trails: A Hiking Guide, Marschall. This backcountry guide covers over 1,000 miles of park trails. Contains useful information on backcountry rules and how to hike through bear country. Updated edition. 176 pages.
#010199 softcover\$5.95
#010381 spiral bound softcover\$8.95

Day Hiking Grand Teton, Carter. Complete descriptions of 15 great hikes, including history, geology, plant and wildlife facts, some maps. 87 pages. #010200\$3.95

Yellowstone Trail Map: Quarter Sections, Trails Illustrated. Outdoor, waterproof, illustrated topo maps that include backcountry campsites. (1:83,333) Order by area of interest:
#070009 Old Faithful SW\$6.95
#070010 Mammoth NW\$6.95
#070011 Tower/Canyon NE\$6.95
#070012 Lake SE\$6.95
Set of four\$24.95

Yellowstone National Park Trail Map-201, Trails Illustrated. Outdoor, waterproof, illustrated topo map. (1:168,500)\$7.95

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 National Park to their surrender in the Bear Paw Mountains of Montana. 21 pages.
#010207\$1.25

Colter's Hell and Jackson's Hole, Mattes. This is a story of trapper days in Yellowstone and Grant Teton National Parks, with drawings and maps. 87 pages. #010210\$2.95

The Discovery of Yellowstone Park, Langford. A journal of the Washburn Expedition to the Yellowstone and Firehole Rivers in the year 1870. This book brings back into print one of the principal sources of information on the exploration of the Yellowstone region and its establishment as America's first national park. 125 pages. #010211\$8.95

Journal of a Trapper, Russell. Osborne Russell's journal covering the years 1834 to 1843 is perhaps the best account of the fur trapper in the Rocky Mountains when the trade there was at its peak. Edited from the original manuscript. 191 pages. #010218\$8.95

Yellowstone Place Names, Whittlesey. Retrieving his facts from governmental 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.
#010226\$11.95

Geology

Agents of Chaos, Harris. This book explains where and why Americans can expect their lives to be disrupted by natural disasters and what they can do to mitigate their effects. Discover the Earth in geologic terms -- look at gigantic earthquakes, volcanic eruptions, meteorite impacts, and other cataclysmic events affecting millions of lives. 260 pages.
#010168\$12.95

The Geysers of Yellowstone, Bryan. This completely revised guide describes in detail each of the more than three hundred geysers in Yellowstone National Park. 463 pages.
#010179\$19.95

Guide to Geyser Gazing, Rinehart. This book on geysers covers how they function, locations and other interesting facts. 64 pages. #010182\$1.40

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. #010185\$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. #010186\$10.00

Roadside Geology of Wyoming, Lageson and Spearing. This book, a story of how Wyoming came to be, describes Wyoming's rocks and landscapes from its endless plains, to mountains that challenge the sky, to badlands as colorful as any painting. 271 pages. #010195\$14.00

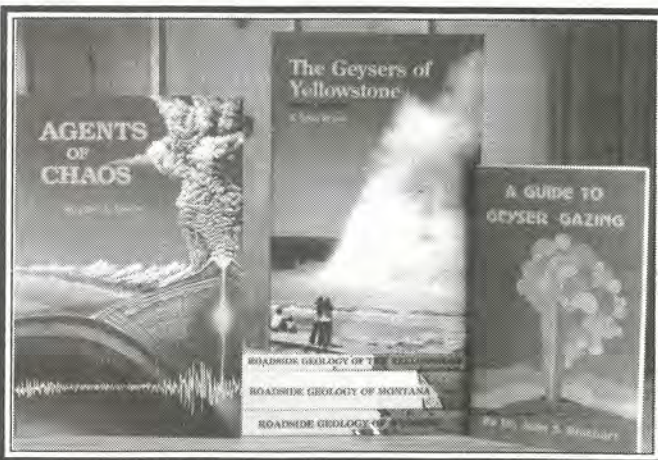


Photo by Pam Gentz

Videos

Catch Me If You Can, Trailwood-Landis Productions, 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.

#020012 VHS\$24.95
#020013 PAL\$24.95

Song Dog, Landis, VHS, 27 minutes. Dramatic film portrayal of the fierce but playful coyote throughout the year.
#020016\$24.95

Yellowstone: The First National Park, Reader's Digest, 60 minutes. Captures the beauties and oddities of the park from wildlife to geothermal features during all seasons of the year.
#020028 VHS\$24.95
#020029 PAL\$24.95

[videos continue on page 26]



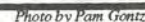
Book & Video Mail Order Form -- YI/C96

Amount of Order	US Postage and Handling
from \$ 0.00 to 4.99	\$2.00
from \$ 5.00 to 9.99	\$2.75
from \$10.00 to 24.99	\$3.75
from \$25.00 or more	\$4.75
All posters	\$5.00

For Foreign Orders we suggest you use your MasterCard or Visa, specify surface or air delivery, and we will add the postage as needed. Please be aware foreign postage is significantly higher than domestic. For example, a 2 pound package airmail to Europe would cost \$12.00; surface \$4.75.

For Phone Orders Call: 307-344-2293
Monday through Friday • 8:00 - 4:30 • Mountain Time

The Wolf, a 30 minute video narrated by Robert Redford in which we see the wolf, its history, habits, and the role he plays in America's national parks.
#020017 \$24.95



Yellowstone Magic, Terra Productions, 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.

#020026	VHS	\$19.95
#020027	PAL	\$19.95

Lost in the Yellowstone—Truman Everts's "Thirty-Seven Days of Peril," Whittlesey. This book contains Truman Everts's original high-adventure chronicle of hardship and survival, newly augmented with biographical and background information. 62 pages, softcover.
#010428.....\$10.95

The Life of Ferdinand Vandeveer Hayden, Foster. A look into the legendary explorer who is said to have "put Yellowstone on the map." This is an engrossing story in which the author vividly portrays the personal hostilities and professional jealousies in which Hayden was embroiled. 443 pages, hardcover.
#010391.....\$29.95

Yellowstone Ski Pioneers—Peril and Heroism on the Winter Trail, Schullery. This book is a collection of stories and comments from Yellowstone's ski pioneers and contains many extended quotations from those early Yellowstone travelers, administrators and others.

#010412	158 pages, softcover.....	\$8.95
#010413	158 pages, hardcover.....	\$17.50

Yellowstone: The Cycle of the Seasons, Robinson and Wilson. A magnificent collection of 86 color photographs celebrating the beauty of the Yellowstone landscape. Yellowstone National Park's retired Chief of Interpretation George Robinson provides an excellent text about the park's natural history.

#010338	96 pages, softcover	\$12.95
#010339	96 pages, hardcover	\$24.95

BACKPACKING THE BEARTOOTH: THE "LEAVE NO TRACE" WAY: 807

August 5-9 **\$295 (Member's fee \$285)**
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 back-country 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 back-country skills and learn more about the region's natural history. You can expect hikes, with a full pack, of 5-7 miles with elevation gains up to 1,500 feet. Much of the terrain is boulder strewn with small stream crossings and at elevations of 9,000 to 11,000 feet. 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. The course on the first day of class will meet at the Lamar facility at 8:00 am. *Participants provide their own backpacking gear and food. A complete equipment list will be provided in the student packet. Participants need to secure their own campsite or lodging. The nearest lodging is the Silver Gate/Cooke City, Montana, area.*

FAMILY DAYS IN THE THERMAL BASINS: 808

August 6-8
Adult-\$130 (Member's fee \$125)
Child-\$ 67 (Member's fee \$ 62)
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 begins at 9:00 am on August 6 and is based at the Madison Campground. Children in this course should be at least six years of age. *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.

HORSEPACKING: WASHBURN EXPEDITION-YELLOWSTONE & HEART LAKES, THE ORIGIN OF A NATIONAL PARK: 809

August 7-11 (see description on pg 31)

FLY FISHING: MORE EXPERIENCED: 810

August 9-11 (see description on pg 19)

EPISODIC HISTORY OF YELLOWSTONE LAKE: 811

August 10-11 **\$98 (Member's fee \$88)**

Location: Yellowstone Lake Area **Limit: 15**

Credit available: U, 1 semester 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. Day hikes include off-trail scrambles. The course on the first day of class will meet at the Fishing Bridge Visitor Center at 9:00 am. *Participants need to secure their own campsite or lodging. The nearest lodging is the Lake or Canyon area.*

FINDING YOUR OWN VOICE: A WILDERNESS WRITING EXPERIENCE: 812

August 11-15 **\$195 (Member's fee \$185)**

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, Sunday, August 11, at the Lamar facility.

BACKPACKING YELLOWSTONE: THE BECHLER REGION (2nd of a series): 813**August 12-16 \$295 (Member's fee \$285)****Location: Bechler Region Limit: 10**
Instructor: Michael Bartley NEW

This five-day backpack will take you into a beautiful and peaceful area of Yellowstone Park known as the Cascade Corner. It is a land of dramatic waterfalls and gentle beauty. Half of the park's waterfalls are located in this, the wettest region, of Yellowstone. The moist climate and relatively lower altitude combine to create an exceptionally rich variety of flora and fauna. Forests, meadows, and river canyon together make this hike through "waterfalls country" a unique and memorable experience. There will be a daily class on a variety of subjects including backpacking skills, the area's natural history, park management issues, and wilderness ethics. Throughout the trip we will be practicing the principles and skills of "Leave No Trace" camping and travel.

This five-day hike is the second in a series of four, week-long backpacks to be offered each year within Yellowstone National Park. Each stage highlights 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, due to the uniqueness of this land and of backcountry travel, we may discover something new about ourselves. This area requires numerous stream crossings and elevation gains up to 700 feet. Join us on one or for the whole series and see what few have seen in Yellowstone National Park. *Participants provide their own backpacking gear and food. A complete equipment list will be provided in the student packet.*

GEOLOGY OF THE YELLOWSTONE COUNTRY: 814**August 12-16 \$225 (Member's fee \$215)****Location: Lamar-Buffalo Ranch Limit: 15**
Credit available: U or G, 1 semester 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. This course includes a 1 1/2 - 2 mile day hike up to Specimen Ridge, with an elevation gain of 800 feet. The course on the first day of class will meet at the Lamar facility at 8:00 am.

*"where happiness and contentment seemed to
reign in wild romantic splendor"*

-Osborne Russell
1835 in *Journal of a Trapper*

AUTUMN CANOEING IN YELLOWSTONE: 815**August 30-September 2****\$310 (Member's fee \$300)****Location: Shoshone Lake, Yellowstone Backcountry**
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 an American Red Cross canoeing certification may be earned if desired. This trip is designed for beginners, and is of moderate physical difficulty, including a two-mile upstream pull of the canoes on the Lewis River, and travel in moderate winds. Class will start from the Lewis Lake campground boat dock on the morning of August 30 at 9:00 am. *Fee includes all canoeing equipment, group camping gear, and food.*

*Photo by Don Nelson***HORSEPACKING: INDIAN SUMMER IN THE BECHLER RIVER COUNTRY WITH PHOTOGRAPHER BRUCE SELYEM: 901****Sept 2-6 (see description on pg 31)****NEW****AUTUMN WILDLIFE PHOTOGRAPHY: 902****September 9-13****\$265 (Member's fee \$255)****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 and slides. Class will begin at 4:00 pm on September 9 at Mammoth Hot Springs. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner. Fee includes \$15 for course materials.*

HORSEPACKING: THE NEZ PERCE TRAIL-MIRROR PLATEAU: 903**September 9-13 (see description on pg 31)**

MAMMOTH EVENTS: WEEKEND FIELD JOURNAL SERIES #5: 904 \$98 (Member's fee \$88) NEW
September 14-15 Location: Mammoth Hot Springs
Instructor: Carolyn Duckworth Limit: 15

The final in a series of weekend journal classes designed as a quick introductory sampling of journal-keeping approaches; each one can be taken independently.

During this session, we'll look for animals in action--such as elk, pronghorn, pika, and migrating raptors--and record their behavior in field notes and sketches. We'll also take a close look at the field journals of naturalists who have studied these and other animals in the park and surrounding areas. Course will begin at 9:00 am on September 14 at the Mammoth Hot Springs Visitor Center. For other courses in this series, see course numbers: 606, 618, 722, and 803.

For a more in-depth experience of the written and drawn field journal, join us in Lamar Valley for *Going to the Source: the Art of the Field Journal*, course number 624.

ART & NATURE: 905
September 16-20 \$280 (Member's fee \$270)
Location: Mammoth Hot Springs Limit: 15
Instructor: Frank LaLumia NEW

This class combines the joy of hiking in Yellowstone with painting on location. The theme of the class is to bring art into one's everyday life. The class is designed both for the individual who is seeking a creative outlet, as well as the more seasoned artist who wants the inspiration of working in the field.

We will simplify the logistics, limiting our gear to a daypack, as we head off in search of Yellowstone's flora, fauna, and landscape. There will be daily painting demonstrations as well as individual help, and advice in dealing with the unique problems of working on location. The class is open to both watercolor and oil painters, and there will be demonstrations in both media.

Our workshop goal is to reduce the intimidation factor, and to make the process simple, accessible, and more FUN! The course will meet the first day at Mammoth Hot Springs at 9:00 am. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

WILDLIFE OBSERVATION-FALL: 906
September 18-21 \$155 (Member's fee \$145)
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 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. The course will begin at 2:00 pm on September 18 at Mammoth Hot Springs, and run until 2:00 pm on September 21. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

FLY FISHING IN THE FALL: 907
September 20-22 \$180 (Member's fee \$170)
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 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. The course on the first day of class will meet at Mammoth Hot Springs at 8:30 am. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner. A Yellowstone National Park fishing permit is required.*

GRAND TETON PHOTOGRAPHY: 908
September 25-28 \$200 (Member's fee \$190)
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 2:00 pm on September 25 at the Signal Mountain Lodge and end around 1:00 pm on September 28. *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.*

ANGELS FROM ECHINUS: EXPLORING THE MYSTERIES OF NORRIS GEYSER BASIN: 909
September 27-29 \$150 (Member's fee \$140)
Location: Mammoth Hot Springs/Norris
Instructor: Carolyn Duckworth Limit: 15 NEW

Timed to coincide with the harvest moon, we'll experience one of the world's most unique thermal areas as few people do. We'll begin with a moonlit walk through the steamy, sizzling geyser basin and hear stories about the strange things that people have witnessed here. The next day, we'll explore the history and the hot waters of Norris Geyser Basin. That night, as the harvest moon once again lights up Norris, we'll explore our responses to this place that is so close to the inside of the earth. The course on the first day of class will meet at the Mammoth Hot Springs Visitor Center at 9:00 am. *Participants need to secure their own campsite or lodging in Mammoth or in Gardiner.*

1996 HORSEPACKING SEMINARS

HORSEPACKING SEMINARS

Horsepacking in, for, and about Yellowstone's Backcountry

The Yellowstone Institute conducts courses on horsepacking in the backcountry of Yellowstone to immerse you in a true wilderness experience, accompanied by a large animal, the horse. The exploration of wild land, in the companionship of a horse, is a historically significant tradition, creating much of the soul of the west. As we have become increasingly civilized as a people, we have also distanced ourselves from the learning experience that wildness offers us. The goal of these courses is to bridge that gap, and by accepting wildness on its own terms, return home refreshed, invigorated, and perhaps a bit more mindful.

All of our horse trips emphasize the **low-impact use of pack stock** in the backcountry, along with specific themes relevant to the area of the park visited. Each course is **participatory**, where you learn by doing, not by being catered to. Our horsepack experiences are a time for students to learn the use and care of pack and riding stock, and how to camp and travel in the wilderness without damaging the fragile country. You become the one responsible for the well-being of the horse, its tack, and the backcountry.

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.

May 28–Jun 1 **Wildlands Horsepacking Seminar–Professional Guides: 604**
 June 5–9 **The Nez Perce Trail–Before Yellowstone: 607**
 July 1–5 **Flora & Fauna of Yellowstone–Hellroaring: 702**
 July 6–9 **Family Horsepacking–Doing Things Together: 705**
 July 14–18 **Yellowstone Heritage Horsepack: An Experience with Wildlands Values with writer and journalist Ruth Rudner: 714**

July 19–23 **The Nez Perce Trail–Traditional Route, Upper Lamar: 721**
 Aug 3–7 **Trapper Trails Through the Thoroughfare with historian Fred Gowans: 804**
 Aug 7–11 **Washburn Expedition–Yellowstone & Heart Lakes, The Origin of a National Park: 809**
 Sept 2–6 **Indian Summer in the Bechler River Country with photographer Bruce Selyem: 901**
 Sept 9–13 **The Nez Perce Trail–Mirror Plateau: 903**

Outfitter/Instructor: Richard Clark, Ph.D.

Limit: 10 per class

4-day class (705): \$525 (Member's price \$515)
 5-day class (all others): \$610 (Member's fee \$600)

WILDLANDS HORSEPACKING SEMINAR–PROFESSIONAL GUIDES: 604 May 28–June 1

A course to introduce the basic techniques of horsepacking including both those of sawbuck and Decker pack saddles. Low impact methodologies will be emphasized. Also the partnership between the professional horse-pack guide and the backcountry ranger in protection of the wildland resource will be presented. The course is intended for candidate professional horsepack guides and is sanctioned by the Professional Guide Institute (PGI). However, land management agency people and others interested in horsepacking in fragile wildland areas are invited to participate. The course is part of the PGI certification program.

HORSEPACKING: THE NEZ PERCE TRAIL–BEFORE YELLOWSTONE: 607 June 5–9

During the summer months of 1877 several hundred non-treaty Nez Perce American Indians fled 1700 miles through the Rocky Mountains in advance of the United States Army. One of the last "Indian Wars," this event has etched its way into the minds and conscience of many students of American history. Part of their route stretched along the Lemhi Mountains of Idaho, the site for this course. The events of this pre-Yellowstone portions of the Nez Perce Trail will unfold with campfire presentations, group discussions, and on-site visits. The course will

attempt in finality to identify the cause and effect elements that led to the Nez Perce War and how the events before Yellowstone contributed to this conflict. The question of a differential view of land, of land ethics, and of place between Indian and white culture will be explored.

HORSEPACKING: FLORA & FAUNA OF YELLOWSTONE–HELLROARING: 702 July 1–5

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 tree, shrub, wildflower, bird, and mammal identification techniques. While exploring the Hellroaring country in and around the Yellowstone River's Black Canyon, there will be ample opportunity to discover the wildlife and plant cover of northern Yellowstone.



Photo by Don Nelson

Horsepacking in, for, and about Yellowstone's Backcountry

FAMILY HORSEPACKING—DOING THINGS TOGETHER: 705

July 6–9

A common adventure for members of a family. Instruction will be available in horseback riding, basic camping, and in nature study. Several mini-lessons will also be presented to assist parents in being more effective family leaders. With instruction participants will saddle, bridle, and hobble their own horse. 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 course is staged in the northern section of Yellowstone, the Hellroaring area.

YELLOWSTONE HERITAGE HORSEPACK: AN EXPERIENCE WITH WILDLANDS VALUES WITH WRITER AND JOURNALIST RUTH RUDNER: 714

July 14–18

This course is an experience in connecting with wildland on the deepest level. Using Yellowstone as the model for wildland, the course intent is to establish—via the arts of observation (with all the senses) and language—an intimacy with the place that, ultimately, translates to all wild places.

In 1996, the rights of the land, its sacred qualities and the spiritual dimensions of the wildland experience will be explored. Included in this exploration will be a look at a land ethic; the American Indian view of sacred land; the European destruction of that idea; and the future of all that lives in relation to the sacredness of land. Along with the horseback adventure, activities will include special readings, writing, and group discussions.

HORSEPACKING: THE NEZ PERCE TRAIL—TRADITIONAL ROUTE, UPPER LAMAR: 721

July 19–23

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 the traditional route through Pelican Valley and into the upper Lamar River will be explored. The pros and cons of this route being, in fact, the route taken by the Nez Perce will be looked at, discussed and shared. The course begins on the north shore of Yellowstone Lake and ends at the Soda Butte trailhead near the Yellowstone Institute facility at the Buffalo Ranch.

HORSEPACKING: TRAPPER TRAILS THROUGH THE THOROUGHFARE WITH HISTORIAN FRED GOWANS: 804

BYU credit pending August 3–7

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 migrate into the interior of the Yellowstone plateau to trap the coveted mountain beaver. This course will present the stories of those who came to obtain the fur wealth from Yellowstone's streams and rivers. Dr. Fred Gowans, student of the fur trade era, will lead this group through the very country first travelled by trapper and trader as America began its move west. The route begins outside the park in the Teton Wilderness, follows the Yellowstone River north to Yellowstone Lake where the group will be picked up at Columbine Meadows by boat and ferried across the lake to Bridge Bay.

HORSEPACKING: WASHBURN EXPEDITION—YELLOWSTONE & HEART LAKES, THE ORIGIN OF A NATIONAL PARK: 809

August 7–11

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 the experiences and adventures of this party are recounted, the country that inspired them to want to share those experiences and adventures with their posterity and fellow citizens to follow will be visited. 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.

HORSEPACKING: INDIAN SUMMER IN THE BECHLER RIVER COUNTRY WITH PHOTOGRAPHER BRUCE SELYEM: 901

September 2–6

Exploration of the lush meadows, the stately forests, and the cascading waterways of the Bechler River drainage in the southwest quadrant of Yellowstone in the cool air of Indian Summer will allow photographer Bruce Selyem to share the technology and artistry of photographing nature's players and place in this beautiful part of Yellowstone. The course will begin and end at the Bechler River Ranger Station. En route Union Falls, Bechler Meadows, the Bechler River Canyon, and Bound-ary Creek will be visited.

HORSEPACKING: THE NEZ PERCE TRAIL—MIRROR PLATEAU: 903

September 9–13

In August 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 alternative will be examined that follows Pelican Creek up to its origins on the Mirror Plateau. Evidence supporting this route will be reviewed. Discussions will consider topography and logistics that might contribute to decisions to follow this route by the Nez Perce. The trip through the area will include a loop through Broad Creek as well as Pelican Creek, and back to the Pelican Creek trailhead.



Photo by Don Nelson

1997 WINTER FIELD COURSES



Photo by Pam Gortz

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 smooths 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 experience levels, all based out of the heated cabins at our Lamar-Buffalo Ranch facility.

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.

WINTER WILDLIFE & NATURE PHOTOGRAPHY: 101
 January 10-13, 1997 \$275 (Member's fee \$265)
 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 five 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 accessible to all. 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 snowcoach trip to the Norris Geyser Basin is included in the tuition fee. The course on the first day of class will meet at the Lamar facility at 8:30 am and end late afternoon on the last day. *Participants may stay at the Lamar cabins--see information on cabins on pg 34. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east. Fee includes \$15 for course materials. Participants need to provide their own ski equipment--see pg 34.*

HOW MAMMALS SURVIVE WINTER: 102
 January 25-26, 1997 \$110 (Member's fee \$100)
 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. We will analyze the nutritional needs and energy balance of antelope, deer, elk, and eagles. Morning lectures will be followed by afternoon laboratories to observe 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. The course on the first day of class will meet at the Lamar facility at 8:30 am. *Participants may stay at the Lamar cabins--see information on cabins on pg 34. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east. Fee includes \$5 for course materials.*



Photo by Linda DeLay-Joseph

THE WINTER EXPERIENCE: ENJOYING ITS COMFORTS: 103

January 28-30, 1997 \$145 (Member's fee \$135)
 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, and a whole new exploration season for nature. This course for newcomers to the winter landscape will introduce you to the tools and techniques to thoroughly prepare you for enjoyable winter outings. Short classroom discussions of equipment and natural history topics will be interspersed with easy skiing over rolling terrain and field demonstrations, explorations of nature in winter, safety and risk assessment, dealing with the cold, avalanches, and both emergency and overnight snow shelters.

Evening readings around the woodstove will cap off the day before heading off to our cozy, heated cabins. The course on the first day of class will meet at the Lamar facility at 8:30 am. *Participants may stay at the Lamar cabins--see information on cabins on pg 34. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east. Participants need to provide their own ski equipment--see pg 34.*



Photo by Pam Gontz

THE TRADITION OF WINTER STORYTELLING: 104

January 31-February 2, 1997
 \$145 (Member's fee \$135)
 Location: Lamar-Buffalo Ranch Limit: 15
 Instructor: Jim Garry

"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. The course on the first day of class will meet at the Lamar facility at 9:00 am. *Participants may stay at the Lamar cabins--see information on cabins on pg 34. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east. Participants need to provide their own ski equipment--see pg 34.*



Photo by Don Nelson

GATHERING WINTER WORDS: 201

February 7-9, 1997 \$105 (Member's fee \$95)
 Location: Lamar-Buffalo Ranch Limit: 15
 Instructor: Carolyn Duckworth **NEW**

In this weekend writing workshop, we'll each produce a short, short story to share with the group. Friday night begins with reading excerpts of fine nature writing. Saturday we explore all day, keeping notes about our experiences and participating in writing exercises. Saturday evening and Sunday morning are writing times. Lunch on Sunday is a "feed and read"--we'll gather around the bunkhouse table to share soup and stories. The course on the first day of class will meet at the Lamar facility at 8:00 pm. *Participants may stay at the Lamar cabins--see information on cabins on pg 34. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east.*

YELLOWSTONE'S WINTER WORLD: 202

February 14-17, 1997 \$260 (Member's fee \$250)
 Location: Lamar-Buffalo Ranch Limit: 15
 Instructor: Don Nelson

Immersed in the winter world of Yellowstone, this course is a detailed introduction to the field of snow ecology. Through classroom discussions and interpretive ski tours, you will learn about winter 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. Much of every day will be spent on skis in the field analyzing snowpits, building a quinzhee snow shelter, and interpreting changes in plants and animals. We will spend one day with a snowcoach ride to the Canyon area where we will ski and observe Yellowstone's Lower Falls in its beautiful winter splendor. You can expect a maximum of three to seven miles of skiing per day over gentle rolling terrain.

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 on the first day of class will meet at the Lamar facility at 8:30 am. *Participants may stay at the Lamar cabins--see information on cabins on pg 34. Closest accommodations other than Lamar would be the Silver Gate/Cooke City, Montana, area--23 miles to the east. Participants need to provide their own ski equipment--see pg 34.*

WINTER GENERAL INFORMATION

The Buffalo Ranch—Lamar Valley

For over 20 years the historic Buffalo Ranch, in the pristine northeast section of the park, has been the summer home of the Yellowstone Institute. Since the completion of our new, log sleeping cabins in 1994, the facility is now used for our winter courses, too.

Located amidst the beautiful elk and bison wintering grounds of the Lamar Valley, the ranch's heated, log sleeping cabins provide a cozy rest after a day in the field, made even cozier by the yipping of coyotes and maybe even the howling of wolves. 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.

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. With snowmobiles being restricted to other areas of the park, the Lamar area remains pristine and quiet in its solitude.

The sleeping cabins are new, 12' x 14' cabins with beds for 2-3 students. The cabins are kept warm and cozy with efficient propane heaters, storm windows, and the natural insulation inherent in logs. Your typical vacation sleeping bag is generally adequate for a comfortable night's rest. Each bed is equipped with a reading light, but there are no outlets for appliances. There are two pit toilets located near the cabins.

The historic bunkhouse, the center of our activities and located a short walk from the sleeping cabins, is heated and has three rest rooms with showers, a fully equipped kitchen, and two classrooms; one of which is used as a "mud room" during the winter. The classroom has chairs, tables, AV equipment, and a large TV with video player.

The kitchen is equipped for student use with two gas stoves, a microwave, a toaster and toaster oven, a blender and mixer, and all the pots and pans, dishes, and cooking and eating utensils you'll need. There are three medium-sized refrigerators for your use and lots of storage space for non-perishables. We provide coffee, tea, and cocoa; a big pot of coffee is ready each morning. There is an array of seasonings on hand, too. All you need to bring are simple, easy to prepare meals.

Silver Gate/Cooke City Area

You can buy gas, simple food supplies, and toiletries at the small villages of Silver Gate and Cooke City, Montana, located about 20 miles east of the Buffalo Ranch. They have motels, a couple of gas stations, restaurants, bars, and a convenience store.



The Lamar—Buffalo Ranch log cabins.

Photo by Pam Gontz

Winter Weather in Yellowstone

Yellowstone is "real winter," often holding the nation's records for cold temperatures; but Yellowstone is a big place with great variation in temperature and snowfall. Depending where you are in the park, snow begins to pile up in November, and at most locations it doesn't begin to melt until spring, except in the lower elevation valleys in the northern portion of the park. Snow depths of three to five feet or more are common in the areas where most of our ski trips take place. Even in a place with enough moisture to create great snow depths the air remains quite dry throughout the winter.

In November temperatures will drop below 20 degrees F almost every night. The deep winter period of December through February brings below zero readings frequently and, while rarely occurring park-wide, temperatures of 40 degrees below F or colder occur almost every winter somewhere in the park.

During any given Institute winter course you can usually expect excellent snow conditions with temperatures ranging from above freezing to below zero, and heavy clouds to bright sunshine. Because winter weather in Yellowstone can vary from quite mild to extreme, it is wise to pay close attention to the clothing and equipment you select.

Winter Equipment

Having the proper equipment for spending a full winter day in the outdoors can make the difference between success and failure, comfort and pain. The layered use of synthetics and wool, with protection from the wind, is the goal of your clothing choices. Several loose fitting layers help you to maintain a comfortable and dry body by having the flexibility necessary to preserve body heat in cold and windy conditions, while also preventing overheating and heavy moisture output during times of increased exertion. The layering principle is this: a layer next to the skin for wicking away perspiration; an insulation layer(s) for warmth; an outer layer for wind protection. Because of its moisture absorbing qualities, wearing cotton is not recommended, especially next to the skin. It can become a "death cloth" in certain situations. For the same reason, however, keeping a cotton bandana handy for wiping sweat from the brow and steam from your glasses can be very useful.

Ski Rental

Cross-country ski rentals can be obtained from TWR Services at 307-344-7311 or Park's Fly Shop in Gardiner, Montana, at 406-848-7314.

Mammoth Hot Springs/Gardiner Area

Before or after your class, you may wish to stay at the historic Mammoth Hotel, with its adjacent dining room and lounge, is open throughout the winter. It is a full-service facility with cross-country ski rental, an ice skating area, hot tubs, snowcoach tours, gift shop, and a general store. Lodging reservations should be made as soon as possible. Call TWR Services at 307-344-7311 for reservations. The town of Gardiner, Montana, is located five miles north of Mammoth. There are a number of restaurants, gas stations, gift stores, laundromats, and a grocery store available. A list of accommodations is available from the registrar.

Camping is available in Gardiner and at the Park Service campground in Mammoth.

INSTRUCTOR PROFILES

Elaine Anderson, Ph.D., (*Bears: Bones, Signs & Stories; The Evolution, Ecology, and Future of the Wolf Family*) is a research associate in zoology at the Denver Museum of Natural History and coauthor 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., (*Aquatic Insects of Yellowstone; Butterflies of Greater 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, does free-lance projects for a variety of organizations throughout the West, and serves on the advisory council for The Yellowstone Grizzly Foundation.

Michael Bartley (*Backpacking in Grizzly Country; Backpacking the Beartooths: The "Leave No Trace" Way; Backpacking Yellowstone: The Bechler Region*) is a former field manager of the Yellowstone Institute. He is certified as a Master of the National Leave No Trace (LNT) program and has previously taught both summer and winter backcountry courses for the Institute. A graduate of the National Outdoor Leadership School, 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, has offered 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.

Tom Butts (*Bats of Yellowstone Park & 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., (*Horsepacking Seminars*) is a native of the Yellowstone country and has spent a good share of his life acquainting himself with the wildlands of Yellowstone. Dick has outfitted and guided professionally for over 35 years in the area. He has been instrumental in the creation and implementation of the Professional Guide Institute (PGI) of which he is currently executive director. The PGI is open to all backcountry experience. Dick's formal training is in botany, natural history, and ecology. He is a partner and manages Bleu Sky Pack Station, Inc., a limited concession of Yellowstone National Park.

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 25 years in the Greater Yellowstone Ecosystem 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.

Linda DeLay-Joseph (*Autumn Wildlife Photography; Winter Wildlife & Nature Photography*) teaches for the California Museum of Science and Industry, wildlife photography for the Santa Fe Workshops in New Mexico and for the Glacier Institute in Montana. She has previously taught for the Palos Verdes Art Center, Cerritos College and the Hockaday Center for the Arts. She is a published photographer/writer with work in *Chelsea House*, *The Territory Ahead*, *SRF*, *The Explorer*, *Wyoming Wildlife*, and a photographer's guide, *Photographing the Ghost Town of Bodie*. Her limited edition images are represented by galleries in Montana and California.

Carolyn Duckworth (*Weekend Field Journal Series #1-#5; Angels from Echinus: Exploring the Mysteries of Norris Geyser Basin; Gathering Winter Words*) has taught field journal and writing workshops for the National Wildlife Federation, the Nature Conservancy, the Montana Conservation Corps, and the University of Montana. She has also written about science and the environment for the Smithsonian, *Northern Lights*, *Ranger Rick*, the multi-media *Earth Explorer Encyclopedia*, and Project WILD. After completing a M.S. in environmental studies, she moved to the northern edge of Yellowstone to be close to the geysers and wild country that inspire her.

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 17 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 coinstructor 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.

Jim Garry (*Bears: Folklore & Biology; Bears: Bones, Signs & Stories; 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. and is the author of *This Ol' Drought Ain't Broke Us Yet (But We're All Bent Pretty Bad)* and *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 master's degree in geology.

Fred R. Gowans, Ph.D., (*Yellowstone Park & the Fur Trade; Trapper Trails Horsepack*) is a professor of Western American history and is the director of the Native American Studies Program at Brigham Young University. He has been a consultant for historical films on mountain men and is the author of *Rocky Mountain Rendezvous*, *Mountain Man and Grizzly*, and *A Fur Trade History of Yellowstone Park: Notes, Documents, Maps*.

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.

James Halfpenny, Ph.D., (*Yellowstone's Wolves; Mammal Tracking: Interpreting Tracks, Scat & Other Sign; Bears: Bones, Signs & Stories; The Evolution, Ecology, & Future of the Wolf Family; How Mammals Survive Winter*) 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 wolves 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., (*Ecosystem Geology: Land Skills for Survival; 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 26 years. She has a B.F.A. from the Maine College of Art, and 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.

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*, *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.

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 and Rocky Mountain 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.

Robyn Klein (*Wild Edible Plants & Medicinal Herbs*) is a graduate of both Dominion Herbal College and the Southwest School of Botanical Medicine. She has taught herbalism classes since 1982 and has been a consultant to the departments of chemistry and entomology at Montana State University. Robyn is the editor of *The Herbalist*, the newsletter of the American Herbalists Guild, and is a professional member. She is also a member of the American Herb Association, the North East Herb Association, Herb Research Foundation, Great Northern Botanical Association and the Montana Native Plant Society.

INSTRUCTOR PROFILES

Karen Krieger (*Women & Yellowstone—A Historical Perspective*) has her master's 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 19 years. He has painted all over the world (with daypack 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; The 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 coauthor of *Montana: Our Land And People* and editor of *The Centennial West, A Columbia River Reader*, and *Stories From An Open Country: Essays On The Yellowstone River Valley*.

John Martin (*Yellowstone Birds of Prey*) is currently the Chief of the Natural and Cultural Resources Division at the U.S. Army Dugway Proving Ground, Utah. His research leading to an 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.

Terry McEneaney (*Camping & Birding; Learning Birds by Sound*) is currently the staff ornithologist for Yellowstone National Park. Prior to his nine 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. The most recent publication of his illustrations is in Bob Berman's *The Secrets of the Night*, William Morrow, 1995.

Linda Miller (*The Wolf's Return—Mythology to Recovery*) has been working on wolf recovery issues and education for the past four years and has recently added grizzly

bear recovery to her responsibilities. Her background includes interpretive naturalist work for the Aspen Center for Environmental Studies, Boulder County Parks and Open Space, 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 animals.

Roy Mink, Ph.D., (*Headwater Watershed Ecology; Hot Rocks, Hot Waters & Great Shakes*) presently serves as 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 and international geothermal projects.

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 an M.S. in resource conservation from the University of Montana.

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.

Sandra Nykerk (*Photographing Nature in Yellowstone Country #1; Photographing Nature in Yellowstone Country #2; 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 15 years, and in the Yellowstone area for the past 10 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.

INSTRUCTOR PROFILES

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 30 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.

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.

Brian Peck (*The Wolf's Return—Mythology to Recovery*) was the Endangered Species Coordinator for National Audubon's Rocky Mountain office for the past four years, 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; Life at the Extremes*) is a professor of wildlife management at Montana State University. In addition to his involvement in grizzly bear research, he also teaches physiology. He has authored research papers and popular articles dealing with the ecology and physiology of a number of species. Many of his graduate students have completed projects in the Yellowstone area.

Ruth Rudner (*Yellowstone Heritage Horsepack*) 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 several years working on material dealing with Indian sacred land. A teacher of occasional writing workshops, she received a Writers' Voice fellowship in 1994 to teach a master-level workshop series at the Billings Family YMCA. Over the past 12 years she has hiked and ridden much of Yellowstone's backcountry. An accomplished wildlands horsepacker—who gained many of her skills from Yellowstone Institute low-impact

horsepacking courses—she is a Professional Guide Institute member and a partner in Bleu Sky Pack Station.

Peg Steunenberg (*Wildflower Art*) has a B.S. from Avila College and a B.A. (drawing and painting) from San Jose State University. Additional art education included a one-year course of study in graphic arts. She continued her studies in illustration at the Academy of Art in San Francisco. Peg recently completed the graduate studies program in Science Illustration at the University of California, Santa Cruz. She has been involved with Mt. Diablo Interpretative Association, and, in conjunction with Roberts Rinehart Publishers, coillustrated the publication, *Plants of the East Bay Parks*. Peg has her own annual educational product line providing information about the plants and animals of California to the public.

Don Streubel, Ph.D., (*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 16 summers studying geology and ecology in the Greater Yellowstone Ecosystem, most recently as a Yellowstone Institute instructor, a presenter for the National Wildlife Federation Summit programs, and guide for Off the Beaten Path. During the school year he teaches biology and geology in California.

Don White, Ph.D., (*Life at the Extremes*) has taught physiology as a faculty member of Drury College and ecology and physiology at Montana State University. He is currently completing research projects involving grizzly bear ecology and some aspects of their reproductive physiology. He has published research papers, popular articles and a teaching manual.

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*. Whittlesey is also the author of *Death in Yellowstone: Accidents and Foolhardiness in the World's First National Park* and *Everts: Lost in the Yellowstone*. He is widely published in the early history of interpretation and transportation in the park and has a law degree from the University of Oklahoma.

Scott Wood (*Lakes of Yellowstone by Canoe; Autumn Canoeing in Yellowstone*) has 21 years' experience in outdoor education and is an instructor at Ricks College. He is a certified Red Cross canoeing instructor, a certified backcountry ski guide, and has extensive avalanche experience.

!! Yellowstone Institute Bed Fundraiser !!

This year the Institute is seeking funds specifically for the replacement of our 45 ancient military surplus beds. We have designed a solid, wooden bed that we will build in assembly-line fashion, using volunteers. Each complete bed (frame, mattress, and fitted sheet) will cost \$115. Our goal is to raise \$5000 so that all beds can be replaced this season. Contributions in any amount will, of course, be gratefully received and acknowledged. The names of those who contribute enough for a complete bed will be nicely displayed at the Institute facility.

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. Please know that your contributions will always be appreciated and efficiently used. Contributions may be made in the method most convenient for you (check, Visa, MasterCard, or Discover) to:

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

THE YELLOWSTONE INSTITUTE APPRECIATES YOUR SUPPORT!

Benefits of Membership

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 and products
- **Yellowstone Institute course catalog** sent prior to general mailing
- **A 15% discount** on items sold by the Yellowstone Association (in Visitor Centers or by mail)
- **Informative quarterly newsletters** and the National Park Service's **quarterly Yellowstone newspaper**
- **Invitations to special members' activities**
- **Credit for a tax-deductible gift** (to the extent allowable by law)
- **Discounts** at many association bookstores in visitor centers at other national parks

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

☒ **Yes!** I want to help educate people about the natural wonders of Yellowstone.

To receive all the benefits of membership, complete and mail this form with your dues to: The Yellowstone Association, P.O. Box 117, Yellowstone National Park, WY 82190 (or leave at any Visitor Center sales desk).

☐ Renewing ☐ Joining for the first time

Give name as you prefer for Association records:

Name ^{Mr.}
^{Mrs.}
^{Ms.} _____

Address _____

City _____

State _____ Zip _____ Phone _____

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

Name	Relationship (spouse/son/daughter)	Age (children only)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Annual Dues:

Associate . . . \$25	☐	Patron . . . \$250	☐
Contributing . . \$50	☐	Sponsor . . . \$500	☐
Sustaining . . . \$100	☐	Benefactor . \$1000	☐

Make checks payable to "The Yellowstone Association"

Charge to: ☐ Visa ☐ MasterCard ☐ Discover

Expiration date _____ Signature _____

YI-95

Clip and mail to the address listed above today!



P.O. Box 117
Yellowstone National Park, Wyoming 82190

FIRST CLASS

ADDRESS CORRECTION REQUESTED

*Please help by sharing your
Institute catalog with a friend*

Institute office 307-344-2294

Duplicate this form for multiple registrations if necessary

'96 REGISTRATION FORM

[Note: Refund Policy on page 6]

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

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

City _____ State _____ Zip _____ Wk Phone () _____ Hm Phone () _____

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 39)

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.

Total Tuition Fee(s) _____

Cabin Fee at \$10 per person per night _____

Membership (optional) _____

☐ joining now

☐ renewal

Total Enclosed _____

Charge to ☐ Visa ☐ MasterCard

☐ Discover

Number _____

Expiration Date _____

Signature of cardholder _____

Mail to: Yellowstone Institute
P.O. Box 117
Yellowstone Park, WY 82190

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

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

Date _____ Signature _____

Date _____ Signature _____

(SIGNATURES FOR ALL PARTICIPANTS REQUIRED)

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