The Yellowstone Institute

1993
FIELD COURSES
NATURE STUDY VACATIONS





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DIRECTORY

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

Park Lodging, RV Park, Marina
TW Recreational Services
(307) 344-7311

Wyoming Travel Information
Wyoming Division of Tourism
(800) 225-5996

Yellowstone Institute
Office in Mammoth
(307) 344-2294
June-August at Lamar
(307) 344-7749

Dear Participant,

The exceptional natural landscape and fascinating human history of the Yellowstone area attract visitors by the millions. They come to view the large, free-roaming herds of elk and bison, and the world's greatest concentration of thermal features. But there is so much more to this special park.

As the Yellowstone Institute enters its 18th season, we continue to see an ever-growing number of people who really want to learn about this unique place called Yellowstone; they want to be immersed in the place, learning firsthand, in the field. With 80 diverse courses and 50 instructors the Institute gives visitors exactly that, and it does it in a relaxed atmosphere away from the crowds.

As you plan your vacation, consider a learning vacation with the Yellowstone Institute. With 25 new courses, including an expanded winter program, this is an exciting year to explore what the Institute has to offer in Yellowstone Park.

Sincerely,

Don Nelson,
Director

THE YELLOWSTONE ASSOCIATION

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

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

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

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CALENDAR 1993

June

	June 1-4	601 √	Mammal Tracking
	June 1-4	602	Wildlife Observation in the Spring
*	June 5-6	603	Indian Use of Yellowstone
	June 11-14	604	Grizzly Bear Ecology & Management
	June 13-17	605 √	Mammals Great & Small
	June 15-17	606 √	Discovery & Exploration of Oregon Trail
	June 18-20	607 √	Bears: Folklore & Biology
*	June 18-20	608	Birding Yellowstone
	June 18-20	609 √	Edible Plants & Medicinal Herbs
	June 18-20	610	Fly Fishing the West Side
	June 21-23	611 √	Interpreting Yellowstone with Ranger Ted
	June 21-25	612 √	Bears: Bones, Signs and Stories
	June 21-25	613 √	Birds of Yellowstone
*	June 25-27	614	Learning Birds by Sound
*	June 26-27	615 √	Butterflies of Greater Yellowstone
	June 28-30	616 √	Beetles, Bugs, and Damselflies
	June 28-July 2	617 √	Geology of the Yellowstone Country
	June 30-July 3	618	Horsepacking: Springtime Flora & Fauna

July

	July 5-7	701 √	Interpreting Yellowstone with Ranger Ted
	July 6-8	702	Family Days at Pebble Creek
	July 9-11	703 √	Yellowstone's Birds of Prey
	July 12-14	704 √	Fire, Ice and Fossil Forests
	July 12-15	705	Learning Outdoor Photography
	July 12-16	706	Horsepacking: Teton Crest Trail
	July 13-15	707	Family Days in Sunlight
	July 15-16	708	Hiking & Camping in Grizzly Country
*	July 17-18	709 √	Alpine Wildflowers
*	July 17-18	710	Wolves of Yellowstone: The Missing Link
	July 17-21	711	Horsepacking: Bechler Canyon Trail
	July 19-22	712	Photographing Nature in Yellowstone
	July 19-22	713	Llama Trekking in the Tetons
	July 20-22	714 √	Headwater Watershed Ecology
	July 22-26	715	Horsepacking: Traditional Nez Perce Route
	July 23-25	716	Three Days at the Buffalo Ranch (Ages 8-11)
	July 23-25	717 √	Geysers, Mudpots, and Hot Springs
	July 23-25	718	Exploring the Yellowstone Ecosystem
	July 24-26	719	Family Days in the Thermal Basins
	July 26-29	720 √	Alpine Ecology
	July 26-29	721 √	Wildflowers Llama Trek
	July 26-30	722 √	Hydrothermal Systems & Ylstn Caldera
	July 27-31	723	Horsepacking: Indian Trails
	July 28-30	724 √	Ecology of Greater Yellowstone
	July 28-30	725	Family Days with Park Ranger Family
*	July 31-Aug 1	726 √	Wildflowers of Yellowstone
	July 31-Aug 3	727 √	Mammal Tracking
	July 31-Aug 4	728	Horsepacking: Nez Perce Alternate Route

August

	August 2-4	801	Yellowstone's Wayside History
	August 2-4	802 √	Interpreting Yellowstone with Ranger Ted
	August 3-4	803	Aquatics for Kids (Ages 6-9)
	August 6-8	804	Fly Fishing: Less Experienced
	August 6-10	805	Horsepacking: Washburn Trail
*	August 7-8	806 √	Episodic History of Yellowstone Lake
	August 9-11	807 √	Ystn Streams Through the Eyes of a Trout
	August 9-13	808	Backpacking the Beartooths
	August 9-13	809 √	Lakes of Yellowstone by Canoe
	August 11-14	810	Horsepacking: Bechler Family Horseback I
	August 13-15	811	Fly Fishing: More Experienced
*	August 14-15	812	Prehistoric People of the Park
	August 14-17	813	Horsepacking: Bechler Family Horseback II
	August 16-20	814 √	Wilderness Thinkers & Their Legacies
	August 16-20	815	Landscape Painting
	August 16-20	816	Writing Workshop
	August 18-22	817	Horsepacking: Trapper Trails
*	August 21-22	818	Women & Yellowstone
	August 21-24	819	The Art of Keeping a Field Journal

September

	Sept 9-10	901	Characters of Yellowstone
	Sept 10-12	902	Autumn Scenic Photography
*	Sept 11-12	903	The Last of the Wild Rivers
	Sept 12-16	904	Autumn Wildlife Photography
	Sept 16-19	905	Wildlife Observation in the Fall
	Sept 16-19	906	Yellowstone's Night Skies
	Sept 21-23	907	The Living Stream
*	Sept 24-26	908	Yellowstone Stories
	Sept 24-26	909	Flyfishing in the Fall

Winter 1993-1994

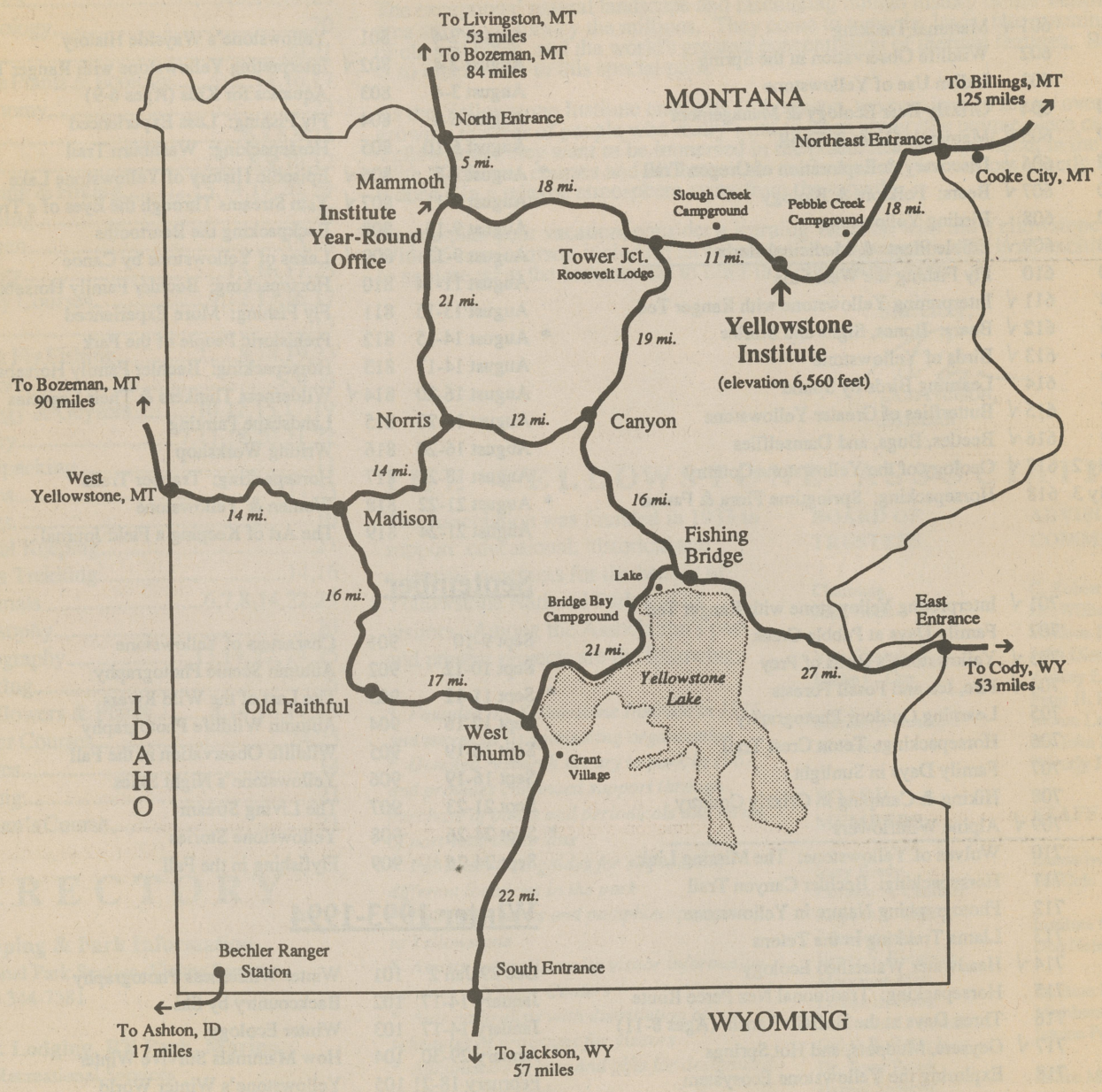
	Dec 29-Jan 2	101	Winter Wilderness Photography
	January 14-17	102	Backcountry by Ski
	January 14-17	103	Winter Ecology
*	January 29-30	104	How Mammals Survive Winter
	February 18-21	105	Yellowstone's Winter World
	February 23-27	106	Winter Wildlife & Atmospheric Scenics

Recycled Paper

* denotes a weekend class (which may begin on Friday evening)

√ denotes classes that are available for university credit

TRAVEL INFORMATION



Major Airports
Bozeman, MT
Billings, MT

Regional Airports
Cody, WY
Jackson, WY
W. Yellowstone, MT
Idaho Falls, ID

Distances/Auto Travel Times to Yellowstone Institute

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

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

General Information

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

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

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

Most courses are limited to 12-15 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.) All classes meet there unless otherwise stated *next to date* under class descriptions.

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 rustic *multiple-occupancy* cabins at the Institute. Most have two or three single beds. They have no plumbing, heating, or electrical outlets, but do have wall lights. Students must bring a pillow and warm sleeping bag. The fee is $8 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 campgrounds at Pebble Creek (9 miles east) and Slough Creek (7 miles west). Lodging within the park may be reserved through TWR Services, including Mammoth Hotel (29 miles west), Roosevelt Lodge (11 miles west at Tower Junction), and Canyon Lodge (30 miles southwest). Motels are available outside the park in Montana at Silver Gate (19 miles east) and Cooke City (23 miles east).

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

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

Classroom & Kitchen Facility The Institute's log building is heated and has two classrooms, three bathrooms with showers, a kitchen where people do their own cooking, and an eating area. The facility, though clean and adequate, is fairly simple. 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 are provided. Space is limited so meals should be kept simple. The camaradarie of the community kitchen is one of the joys of students.

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

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

Institutions which offer credit include the University of Montana, Montana State University, Idaho State University, Brigham Young University, Ricks College, and the University of Wyoming. Registration forms will be provided on the first day of the course. Fees for credit are collected on the first day of class and are usually $25-$60. 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 because most courses require at least some walking at higher elevations. Classes which involve backpacking, horsepacking, canoeing, and field work will be more demanding. Ask in advance if you have any questions on this matter.

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

Weather Much class time will be spent outdoors. Students should be prepared for a variety of mountain weather conditions and some cold temperatures. Rain gear and warm clothing are essential.

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

Since 1985, humanities courses have been partially funded by grants from the Wyoming Council for the Humanities.

Refund Policy Payments for Institute courses are fully refundable, less a $35 per course processing fee ($20 for Association members), if cancellation takes place at least 30 days before the course. No refunds can be made for cancellations received less than 30 days before start of course, unless your space can be filled. Tuition and cancellation processing fees may be applied toward tuiton for another course during the current calendar year. Cabin fees are 100% refundable. **IMPORTANT:** YI cannot make exceptions to this refund policy for any reason, including personal emergencies or weather. We strongly urge you to take out accident, baggage, and trip cancellation insurance through a travel agent. *Trip insurance protects you against financial loss if you must cancel or interrupt a trip because of illness or injuries to yourself, a family member, or travelling companion.*

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



NPS Photo

Bears: Folklore and Biology: 607
June 18-20
$123 (Member's fee $113)
Credit available (U, 1 semester hour, MSU)

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.

Harold Picton, Ph.D., is a professor of Wildlife Management at Montana State University. He has directed a number of graduate student studies of the Yellowstone grizzly, co-authored several scientific papers with members of the Interagency Grizzly Bear Study Team, and is a member of the grizzly bear committee of The Wildlife Society.

Jim Garry 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 the newly released This Ol' Drought Ain't Broke Us Yet (But We're All Bent Pretty Bad.)

Birding Yellowstone: 608
June 18-20
$85 (Member's fee $75)

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 50 species including the osprey, bald eagle, and trumpeter swan. There will also be opportunities to observe many of the park's mammals. The class will begin at 8:00 pm on Friday, June 18, with introductions and a session on birding in Yellowstone.

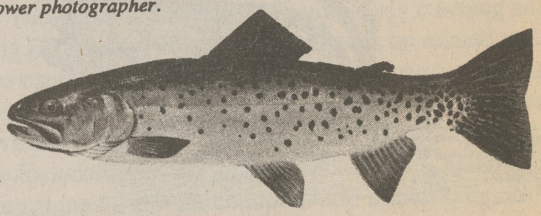
Richard Follett is author of Birds of Yellowstone and Grand Teton National Parks *and* Birds of Crater Lake National Park. *He is a specialist on the birds of Yellowstone where he worked seven years as a ranger-naturalist and compiled the park's bird checklist.*

Wild Edible Plants and Medicinal Herbs: 609
June 18-20 Squirrel Meadows, Targhee National Forest, Idaho
$123 (Member's $113)
Credit available (U, 1 semester hour, U of MT)

The blue camas meadows in the forests between Yellowstone and Grand Teton National Parks were an important food source for early American people. The meadows, ponds, aspen groves and coniferous forests of this area have outstanding plant diversity, providing an exceptional opportunity to study native vegetation. This course will focus on the edible and medicinal properties of the native plants of the West. The toxicity and poisoning principles of poisonous plants will also be discussed. Identification techniques will be presented during the many field trips.

Classroom headquarters for the course will be at the historic Forest Service cabin at Squirrel Meadows along the scenic road between Ashton, Idaho, and the Flagg Ranch near the South Entrance to the park. Participants should come prepared to camp out, or may choose to stay in a motel in Ashton, which is less than an hour away. This is one in a series of four wildflower classes; see also course numbers 709, 721, and 726.

Wayne Phillips has a degree in forestry and is an ecologist with the U.S. Forest Service on the Lewis and Clark National Forest. He has taught plant identification for the College of Great Falls, is intimately familiar with the vegetation of the Mountain West, writes botanical articles, and is an avid wildflower photographer.



Fly Fishing the West Side: 610
June 18-20 West Yellowstone, MT
$153 (Member's fee $143) Limit: 9

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. **Note:** Two flyfishing courses based at the Institute are offered in August, see page 18. A new fall course is being offered based out of Mammoth Hot Springs, see page 23.

Richard Parks is the manager of Parks' Fly Shop, a family business that has been in Montana for over thirty years. Richard is highly respected as a fly tier, a teacher and a river guide and is intimately familiar with Yellowstone's waters.



Interpreting Yellowstone with "Ranger Ted"
June 21-23 Fishing Bridge: **611** Limit each session: 20
July 5-7 Fishing Bridge: **701**
August 2-4 Fishing Bridge: **802**
$75/person (Member's fee $70)
Credit available (G, 1 semester hour, BYU)

Participants will be introduced to the wonders and dilemmas 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 walks and programs will encompass themes such as park history, environmental issues, personal reminiscences, kinship and interdependence of *all* life forms, predator-prey relationships, wilderness ecosystems 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 locations around the park each day.

Note: This class will meet in the Lake/Fishing Bridge area. People who wish to camp may make reservations for a site at Bridge Bay Campground through Ticketron. Information about other lodging and camping options is available from the registrar.

***Ted J. Parkinson** served 37 seasons as a ranger-naturalist in Yellowstone and has delighted thousands of children with his informative, inspiring nature walks. 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.*

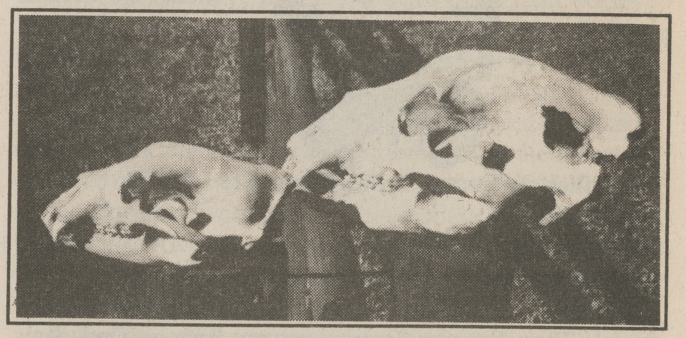
Bears: Bones, Signs and Stories: 612 NEW
June 21-25
$220 (Member's fee $210)
Credit available (U, 2 semester hours, MSU-Pending)

Ursophiles (Greek for "bear lovers") unite. Supplement your knowledge of bears with a unique triad of instructors. From Dr. Elaine Anderson you will learn the evolutionary history of carnivores, especially ursids, as she talks about fossil and recent bears—their bones and their distribution. Dr. Jim Halfpenny will teach about modern signs of bears and conduct a research project cataloging the "bear trees" of Yellowstone. Jim Garry will explore the vast and fascinating folklore of the bear, while examining the bear's habitat and behavior. Lectures will be supplemented by field trips to study bear trees, interpret stories left by claw marks, and to map tree distribution. Evening programs will share the lore of bears from a world-wide perspective. *Tuition fee includes $15 for materials and handouts.*

***Elaine Anderson**, Ph.D., is a Research associate in Zoology at the Denver Museum of Natural History and co-author of* Pleistocene Mammals of North America. *She teaches comparative mammalian osteology at the museum and is writing a book on osteology. Research interests include fossil and recent carnivores, Pleistocene faunas, osteology and biogeography.*

***Jim Halfpenny**, Ph.D., see write-up under "Mammal Tracking "on page 6.*

***Jim Garry**, see write-up under "Bears: Folklore & Biology" on page 8.*



Birds of Yellowstone: 613
June 21-25
$205 (Member's fee $195)
Credit available (G or U, 1 semester hour, U of MT)

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.

***Richard Follett**, see write-up under "Birding Yellowstone" on page 8.*

Learning Birds by Sound: 614
June 25-27 Limit: 8
$95 (Member's fee $85)

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 abiliy to hear high and low pitches. Field trips will be the major emphasis with a chance for individual skills development. If you feel you can identify birds by sight, but are interested in identifying more birds by the sounds they make, then this course is for you. Class will begin on Friday, June 25, at 7:30 pm.

Terry McEneaney is the staff ornithologist in Yellowstone National Park. Prior to this, he was a wildlife biologist at Red Rocks 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 for the Nature Conservancy in Montana, and is the author of Birds of Yellowstone, The Uncommon Loon, *and most recently,* A Birder's Guide to Montana, *scheduled for release in spring of 1993.*



Butterflies of Greater Yellowstone: 615 NEW
June 26-27
$82 (Member's fee $72)
Credit available (U or G, 1 semester hour, ID State U)

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

Robert Anderson, Ph.D., 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.

Beetles, Bugs, and Damselflies: 616
June 28-30
$123 (Member's fee $113)
Credit available (G or U, 1 semester credit, ID State U)

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

***Robert Anderson,** Ph.D., see write-up under "Butterflies of Greater Yellowstone," in previous column.*

Geology of the Yellowstone Country: 617
June 28-July 2
$205 (Member's fee $195)
Credit available (U or G, 1 semester hour, U of WY)

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.

***David Fountain,** Ph.D., is a professor of geology at the University of Wyoming. He has taught field courses in Yellowstone and Glacier National Parks, served as co-instructor in a National Science Foundation course for science teachers, and is editor of the journal* Geology *for the Geological Society of America. His research interests are crustal evolution and structure which he has studied in Europe, Canada, the northwest Pacific Ocean, and the Rockies.*





Wilderness Horsepacking Limit: 12 per class
June 30-July 3, Springtime Flora & Fauna: **618**
July 12-16, Teton Crest Trail: **706**
July 17-21, Bechler Canyon Trail: **711**
July 22-26, Traditional Nez Perce Trail: **715**
July 27-31, Indian Trails: **723**
July 31-August 4, Nez Perce Trail: Alternate Route: **728**
August 6-10, The Washburn Expedition Trail: **805**
August 11-14, Family Bechler Trip I: **810** NEW
August 14-17, Family Bechler Trip II: **813** NEW
August 18-22, Trapper Trails: **817** NEW

4-day class (**618, 810, & 813**): $420 (Member's price $410)
5-day class (all others): $525 (Member's fee $515)

Along with its specific theme, each of these courses will stress low-impact use of pack stock in the backcountry. Courses are participatory rather than catered trips where participants learn use and care of pack and riding horses and how to camp and travel in the wilderness without damaging the fragile country. *Fee includes horses, camping equipment and food. Participants must provide their own sleeping bags.*

The four day June 30-July 3 Springtime Flora and Fauna class will start at 1:00 pm the first day at the Institute and spend the first day preparing for the trip and will include instruction in the natural history of Yellowstone. The horse-trip begins the next morning and over the next three days explores the Hellroaring country in and around the Yellowstone River, an area of bountiful wildlife and colorful displays of wildflowers.

The July 12-16 Teton Crest trip will emphasize the special concerns of horseback trips through the fragile alpine ecosystem found along the west slope of the Tetons. At times the route passes through 10,000 foot elevations with spectacular views of the Tetons—including striated walls, tarn lakes and braided streams.

The July 17-21 trip takes place in the seldom-traveled Bechler Canyon country between Old Faithful and the southwest corner of the park which features lush meadows and scenic canyon waterfalls.

The July 22-26 course will explore the probable route taken in August 1877 by Nez Perce Indians while pursued by the U.S. Army. To this day, their exact route through one of Yellowstone's most remote areas is unknown. It was wild and rugged then and remains so today.

The July 27-31 session will explore portions of Indian routes through Yellowstone, such as the Bannock Trail. The ride will take participants through sections of the upper Lamar Valley, Mirror Plateau, and Pelican Creek and provide a chance to examine the effects of the Clover-Mist fire of 1988.

The July 31-August 4 session will explore an area that has interested historians as a possible Nez Perce route. The ride will loop through portions of the Pelican Creek and Broad Creek areas and end near Canyon.

The August 6-10 course will follow a portion of the original Washburn Expedition trail along the east and south shores of Yellowstone Lake through country that is still much as it was in 1870 when Washburn's party rode through it.

The August 11-14 and 14-17 family trips will take place in the southwest corner of the park in the Bechler River area and are designed for families with children 6 years of age or older. There will be one day of preparation at the Bechler Ranger Station and three days of appropriate travel and camps in the adjacent backcountry. Instruction will include basic horseback riding and packing as well as natural and cultural history of this region. Children must be accompanied by at least one adult. *There is a 10% discount for families of three or more.*

The August 18-22 course follows a route used often and by several different brigades of trappers during the fur trade era. The trip will begin at the northeast corner of Yellowstone Lake and traverse the east shore of the lake and up the Yellowstone River through the Thoroughfare country to Two Ocean Pass and out through the Teton Wilderness to the Turpin Meadows trailhead.

Richard Clark, Ph.D., is a native of the upper Snake River Valley and has spent over a decade as a professional guide and outfitter in the Tetons and Yellowstone. He is a faculty member at Ricks College. His wealth of outdoor experience has been augmented with academic preparation in biology and botany at Utah State University, the University of Oregon, and Brigham Young University.



Photo by Rob Whittemore

Interpreting Yellowstone with Ranger Ted: 701
July 5-7 (see description on page 9)

Family Days at Pebble Creek: 702
July 6-8 Limit: 20
$75/person (Member's fee $65)

This three-day family camping experience will headquarter at Pebble Creek Campground in the northeast corner of Yellowstone. From there we will explore this area's spectacular landscape both in and out of the park. Through hikes, discussions, and games, participants will learn about the geology, wildlife, botany, and history of this very special region. We will also spend some time looking at the effects of the '88 fires to understand why this was such an important process for the Yellowstone Ecosystem. Critter watching at dawn will be an option. An evening campfire storytelling session will introduce the mythology and folklore of the Yellowstone country. Children of all ages are welcome, but should be able to walk or be carried by an adult while out on field trips.

Class will begin at 9:00 am on July 6. Families must provide their own food, including picnic lunches in the field. Campsites are available at Pebble Creek for $6/night and it is recommended that sites be secured by mid-morning. For the non-campers, lodging is available at Roosevelt Lodge in the park or Cooke City, MT.

Sandy Nykerk is a naturalist and photographer based in Gardiner, Montana. Her work has been published in many calendars, books, and journals and she teaches photography and natural history workshops around the country. Also active in environmental issues, she was a member of the board of the Greater Yellowstone Coalition for 7 years.

Jim Garry, see write-up under "Bears: Folklore & Biology" on page 8.





Yellowstone Birds of Prey: 703
July 9-11
$123 (Member's fee $113)
Credit available (U, 1 semester hour, MSU)

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.

John W. Martin is currently a senior wildlife biologist for BIO/WEST, an environmental consulting firm in Logan UT. His research leading to a M.S. in Wildlife and Range Resources was based on Northern Harrier habitat utilization.

Fire, Ice and Fossil Forests: 704
July 12-14
$123 (Member's fee $113)
Credit available (U, 1 semester hour, MSU)

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

John Good was chief naturalist of Yellowstone National Park for six years. During his distinguished career in the National Park Service he served as superintendent of Acadia and Everglades National Parks and assistant superintendent of Yosemite. He holds a masters degree in geology and is a fellow of the Geological Society of America.

Learning Outdoor Photography: 705
July 12-15
$164 (Member's fee $154)

This field course is uniquely designed to stimulate all levels of photographers. For the less experienced students there will be extensive opportunities for one-on-one practical instruction in the field. The more experienced photographers will be guided to hikes beyond the roadside turnoffs to explore the great subjects of Yellowstone. Daily slide presentations are designed to be lively and non-technical, concentrating on composition, lighting, lens selection and creative options available in outdoor photography. Special emphasis is placed on spending maximum time in the park learning to "see" and enjoy Yellowstone with a camera.

***Pete Houdeshel** has worked as a free-lance photogrpaher for the past 20 years, living in California, Hawaii, and Utah. For 10 years he produced photo essays for the award winning "New Worlds Magazine." He has been featured by "Outdoor & Travel Photography," "Aloha," and " Salt Lake City" magazines with clients that include Hallmark Cards, Marriott and Hyatt Regency Hotels, the PGA, Delta Air Lines and the Salt Lake City Olympic Committee. When not out with his camera, he flies jets for Delta Air Lines.*

Horsepacking: Teton Crest Trail: 706
July 12-16 (see description on page 11)

Family Days in Sunlight: 707
July 13-15 Shoshone National Forest
$75/person (Member's fee $65) Limit: 20 people

Sunlight Basin and the Beartooth Mountains form the northeast flank of Yellowstone, an area noted for its scenic, high country beauty. This three day course will offer families an opportunity to share in learning about and from this natural wonderland. Participants will be introduced to the area's geology, wildlife, archaeology, history, and the fires of '88, as well as naked-eye astronomy. Critter watching at dawn will be an option, and an evening campfire storytelling session will introduce the mythology and folklore of the Yellowstone country. Fieldtrips will include short hikes of one to three miles. Children who wish to attend should be able to walk this distance or be carried by an adult while out on field trips.

The course will be headquartered adjacent to the park in the Shoshone National Forest at Fox Creek Campground, approximately 7 miles east of Cooke City, MT. Participants will meet at the instructors' campsite at Fox Creek at 9:00 am on the first day, July 13. Families who do not plan to stay in their tents, campers, or RVs may request a list of nearby accommodations. Campsites are available at Fox Creek for $5/night. *Families must provide their own camping equipment, food for all meals and have their own transportation for field trips.*

***Jim Garry**, see write-up under "Bears: Folklore and Biology" on page 8.*
***Sandy Nykerk**, see write-up under "Family Days at Pebble Creek" on page 12.*



Hiking and Camping in Grizzly Country: 708
July 15-16 Pebble Creek
$82 (Member's fee $72) Limit: 10

Moderate hikes of 5-6 miles each day and an overnight in the Yellowstone backcountry will provide the format for this class which will emphasize safety and precautions necessary in grizzly country. The first morning of this course will be devoted to a discussion of the history of bear/man confrontations followed by a discussion of techniques for the prevention of such confrontations including suggestions for dealing with grizzly encounters. Following the discussion, the group will hike to a backcountry campsite up the Pebble Creek drainage. During the remainder of the course the instructor will cover camping techniques and further discussions about the current status of the great bear and its uncertain future. Teenagers accompanied by adults are welcome. *Participants provide their own backpacking gear and food. A complete equipment list will be provided in the student packet.*

***Bill Schneider** is the author of* Where the Grizzly Walks, The Hiker's Guide to Montana, *and dozens of magazine articles on grizzlies. He has a degree in wildlife biology and was editor of the* Montana Outdoors *for nine years. He is currently a publisher with Falcon Press of Helena, Montana, a company specializing in hiking guides and other outdoor books.*



Exploring the Yellowstone Ecosystem: 718
July 23-25 Mammoth Hot Springs
$90 (Member's fee $80)

Based out of Mammoth Hot Springs, 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 1:00 pm, July 23 through early afternoon July 25. Lodging reservations should be made early, contact the Institute office for lodging and camping information. **Note:** See schedule tie-in with children's class, 716, "Three Days at the Buffalo Ranch."

***Tom Watson** teaches high school biology and geology in California. He has spent 12 summers studying the Greater Yellowstone Ecosystem at the Yellowstone Institute.*



Family Days in the Thermal Basins: 719
July 24-26 Madison Campground
$75/person (Member's fee $70)

The thermal areas of Yellowstone are unique in the world for their number and diversity. For three days, this family class will explore the park's thermal basins, gaining an understanding of the geology and ecological systems which make these features possible. We will spend time at many of the thermal areas, including Norris, Old Faithful and West Thumb. Field trips of one to three miles will be paced for a family experience and will allow ample time to enjoy all of Yellowstone's natural history, including wildlife and botany. Critter watching at dawn will be an option. An evening campfire storytelling session will introduce the mythology and folklore of the Yellowstone country.

Class will be based at the Madison Campground. Children in this course should be at least six years of age. Class begins at 9:00 am on July 24. Participants will carpool for field trips. Families who camp must secure their own campsites early in the day, the cost is $8 per night. *Participants must provide their own camping equipment and food, including field lunches.*

***Sandy Nykerk**, see write-up under "Family Days at Pebble Creek" on page 12.*

***Jm Garry**, see write-up under "Bears: Folklore & Biology" on page 8.*

Alpine Ecology: 720
July 26-29 Cooke City, MT
$179 (Member's fee $169)
Credit available (U, 1 semester hour, U of MT; or 1 semester hour, MSU)

The Beartooths are still locked in glaciation as they form the northeast bastions of the Yellowstone Ecosystem. Travelling from our base in Cooke City, the Beartooth section of U.S. 212, called by Charles Kuralt, "...the most beautiful roadway in America," we will make day trips to this incredible region above tree line. The class will carpool to various locations and explore the patterns and processes of geology, glaciers, peri-glacial features, climate, and plant and animal communities as they combine to form the alpine tundra. Using a hierarchical approach, ecosystem functions over differing time and space scales will be stressed. The interference with modern civilization will also be analyzed. *Tuition includes $15 for course materials. Students are responsible for securing their own lodging or camp sites in the Cooke City area. A list of options is available from our registrar.*

***Jim Halfpenny**, see write-up under "Mammal Tracking" on page 6.*

Wildflowers of the High Country (Llama Trek): 721
July 26-29 Beartooth Backcountry
$324 (Member's fee $314) Limit: 10
Credit available (U, 1 semester hour, U of MT)

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 hikes of 4-5 miles per day on relatively gentle terrain at an elevation of about 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. *Enrollees must bring sleeping bag, pad, and pack. Fee includes group equipment, food and llama packing. A camp tender will prepare meals.*

***Wayne Phillips**, see write-up under "Wild Edible Plants and Medicinal Herbs" on page 8.*



Hydrothermal Systems & the Yellowstone Caldera: 722
July 26-30
$205 (Member's fee $195)
Credit available (U or G, 1 semester hour, U of MT)

The class will present a thorough discussion of the geological evolution of the Yellowstone caldera and the nature and occurrence of hot springs, geysers, and mudpots. Lectures will include discussions of volcanic rocks, caldera cycles, and development of geologic structures that influence the location of hydrothermal systems, the geology of geothermal features and the chemistry of thermal waters. Field trips will visit areas that feature the many types of rocks produced during several stages of the Yellowstone caldera and famous and unusual hydrothermal features that are off the beaten path. The class will have special appeal for teachers of earth science and others with serious interest. A background knowledge of geology will help in understanding many of the topics.

Duncan Foley, Ph.D., see write-up under "Geysers, Mud Pots, and Hot Springs" on page 15.

Roy Mink , see write-up under "Headwater Watershed Ecology" on page 15.

Clay Nichols, Ph.D., is deputy assistant manager for Projects and Energy Programs at the Idaho Falls office of the Department of Energy where he manages programs at the Idaho National Engineering Laboratory and many universities. He has also worked on national geothermal programs for the DOE.

Horsepacking: Indian Trails: 723
July 27-31 (see description on page 11)

Ecology of Greater Yellowstone: 724 NEW
July 28-30
$123 (Member's fee $113)
Credit available (U or G, 1 semester hour, MSU)

This course will cover the inter-relationships of the biota and physical environment of the Greater Yellowstone area. The primary focus will be on the plant communities, both as suppliers of energy to the rest of the ecosystem and as indicators of environmental conditions. Most of the time will be spent on field trips to many of the major biotic communities of the area, both in and around the park. Discussions will center around the effects of climate, geology, soils, fire, succession, animals, and man on the areas that we visit.

Don Despain, Ph.D., grew up on the edge of the Greater Yellowstone area. Following his years of schooling he has been doing research for the past 21 years on the vegetation of the area. He has published several papers and is author of Field Key to the Flora of Yellowstone National Park *and* Yellowstone Vegetation.

Family Days:
Exploring the Park with a Ranger Family: 725
July 28-30 Grant Village Limit: 20 people
$75/person (Member's fee $70)

This is a class for families—taught by a family. Two former National Park Service rangers and their 6 and 3 year old sons will lead you off the beaten track, sharing their years of experience in Yellowstone. The course is based at the Grant Village group campsite, but families may stay in nearby lodges. The class will include easy walks and even a strenuous hike at a family pace. This class will explore the West Thumb Geyser Basin, hike to points overlooking Yellowstone Lake, learn about plants and animals, and sharpen photography and compass skills. You may stay at the Grant Village group campsite starting the evening of Tuesday, July 27. Class begins at 9:00 am Wednesday, July 28, and runs until 10:00 pm on Friday, July 30. *Families must provide their own camping equipment and food.*

Jack de Golia is the Public Affairs Officer for the Beaverhead National Forest in Dillon, Montana. For seven years he was an interpretive naturalist in Yellowstone, in charge of the environmental education program. He has written two books, one about Everglades National Park and one about fire.

Louise Bruce, see write-up under "Three Days at the Buffalo Ranch" on page 15.

Alex de Golia, age 6, first came to Yellowstone from the hospital in Livingston, Montana when he was five days old. He brings his unique perspective of Yellowstone that only a fast moving little kid can!

Kyle de Golia, age 3, is a native of Montana and an expert observer and animal imitator.



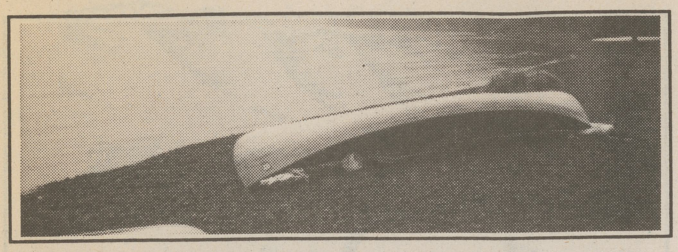
Wildflowers of Yellowstone: 726 NEW
July 31-August 1
$82 ($72)
Credit available (U, 1 semester hour, U of MT)

During this class basic plant classification skills will be developed during botanical walks and short classroom sessions. A variety of forest, meadow and streamside habitats will be studied. Field identification of the trees, shrubs, grasses and wildflowers of northern Yellowstone will be emphasized. Plant ecology, wildflower photography and historic plant uses will also be discussed. This is one in a series of four wildflower classes; see also course numbers 609, 709, and 721.

Wayne Phillips, see write-up under "Wild Edible Plants & Medicinal Herbs" on page 8.

Mammal Tracking: 727
July 31-August 3 (see description on page 6)

Horsepacking: Nez Perce Alternate Route: 728
July 31-August 4 (see description on page 11)



Lakes of Yellowstone by Canoe: 809
August 9-13 Shoshone Lake, Yellowstone Backcountry
$330 (Member's fee $320) Limit: 12
Credit available (U or G, 1 semester, Ricks College/BYU)

This five day canoe trip across Lewis Lake and into magnificent Shoshone Lake, the largest wilderness lake in the lower 48, will provide interpretation of the lake environment and instruction on low-impact backcountry camping techniques. Canoeing skills such as strokes, portaging, safety and tripping (how to pack a canoe) will be studied and American Red Cross canoeing certification may be earned if desired. Class will start from the Lewis Lake campground boat dock on the morning of August 9. *Fee includes all canoeing equipment, group camping gear, and food.*

***Scott Wood** has 18 years experience in outdoor education, is an instructor at Ricks College, and a doctoral candidate at the University of Utah. He is a certified Red Cross canoeing instructor.*

Horsepacking:
Family Horseback in Bechler I: 810
August 11-14 (see description on page 11)

Fly Fishing: More Experienced: 811
August 13-15 (see description on page 18)

Yellowstone Before the Tourists:
Prehistoric People of the Park: 812 NEW
August 14-15
$82 (Member's fee $72)

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

***Susan Hughes** is a Ph.D. student in archaeology at the University of Washington and an archaeologist with the Wyoming Bureau of Land Management. She has taught archaeology and geology at Northwest College in Wyoming and conducted ongoing research and fieldwork in Northern Plains prehistory. Recent research includes the excavation of two Northern Plains bison kill sites, bone studies, and the evolution of prehistoric projectile point weaponry.*

Horsepacking:
Bechler Family Horseback II: 813
August 14-17 (see description on page 11)

Wilderness Thinkers
& Their Legacies: 814 NEW
August 16-20
$260 (Member's fee $250)
Credit available (U or G, 1 semester hour, Ricks College/BYU)

This five day Yellowstone backpacking trek will explore the power that wild places have in helping us to understand the value of adventure, the beauty of the natural world, and an appreciation of its inherent spirituality. Readings before and throughout the trip will help you interpret the influence of wilderness visionaries such as John Muir, Sigurd Olson, Henry David Thoreau, and Edward Abbey; and the adventure philosophies of individuals like Willi Unsoeld, Joel Meier, and Kurt Hahn. Through discussions and wildland experiences, students will be encouraged to share and develop their own philosophies of wilderness and adventure as they face fears and explore their own limits. The course will take place in the backcountry of the northeast area of the park and will start at noon on the 16th.

Food is included in the tuition and any individual equipment can be rented through the instructor. Excellent physical condition is recommended.

***Scott Wood**, see write-up under "Lakes of Yellowstone by Canoe" on this page in previous column.*

Landscape Painting:
Earth, Air, Fire & Water: 815 NEW
August 16-20
$205 (Member's fee $195)

In this five day art course based at the Institute's Lamar Facility, participants will paint on site at various locations in the park. Through detailed and guided instruction in sketching and paining, the student will learn to capture the essence of the Yellowstone landscape. The use of perspective, both aerial and linear, and the structural and spatial analysis of form, light, and color will be discussed. A combination of slide presentations, field demonstrations and individual and group critiques will occur throughout the course. Students should bring sketchbooks, pencils, paper canvas pads, five stretched canvasses and acrylic paints. Collapsible easels and stools are highly desirable. A detailed equipment list will be included in the student packet.

***Olivia Petrides** has a M.F.A. from the School of the Art Institute of Chicago. She has taught painting and drawing at the SAIC since 1985. She is also the illustrator of the* Peterson Field Guide to Western Trees *(1992) and the* Peterson First Guide to Trees *(1993), both published by Houghton Mifflin Company. During August of 1992 she was an artist-in-residence for the National Park Service's Artist in the Park series in Yellowstone.*

Finding Your Own Voice:
A Wilderness Writing Workshop: 816
August 16-20
$166 (Member's fee $156)

This four day workshop 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 an active geothermal area not often found by the average visitor. There will be ample time to write and encouragement to share and learn from each other. This course begins at 7:00 pm, Monday, August 16.

Deborah M. Bond, Ph.D., is a wildlands enthusiast, psychotherapist, and freelance writer. She has been an affiliate professor at the University of Montana. Her poetry has appeared in a number of publications. A collection of her short stories "Earth Stories" *appeared in "Snowy Egret," the oldest independent nature journal in the U.S.*

Dorothy Hinshaw Patent , Ph.D., is the author of more than seventy science 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. Most of her books have been selected as Outstanding Science Trade Books for Children.

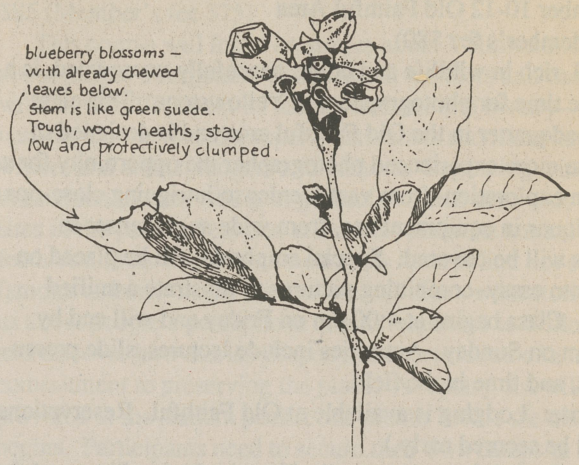


Horsepacking: Trapper Trails: 817
August 18-22 (See description on page 11) Photo by Rob Whittemore

Women & Yellowstone—A Historical Perspective: 818
August 21-22
$82 (Member's fee $72)

This course examines Yellowstone as seen by women in the late 19th and early 20th centuries. Using diaries, letters, photographs and other historical resources, the group will discover the variety of experiences encountered by women residents and visitors to the park during its early years. Day hikes will include exploring old tourist sites, cemetaries, and natural features which encourage an understanding of how women interacted with Yellowstone. Day hikes of 2-4 miles can be expected.

Karen Krieger has her masters degree in American Studies from Utah State University and works in the Fife Folklore archives at USU researching women's issues. She has worked in museums (including the Buffalo Bill Historical Center in Cody, WY) and historic sites, published articles on women in wilderness, led outdoor trips for women and conducted nature hikes for children and adults.



The Art of Keeping a Field Journal: 819
August 21-24
$164(Member's fee $154)

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

Hannah Hinchman has kept an illustrated journal for 23 years. She has a B.F.A. from Portland School of Art, Maine, and shows her watercolor "illuminated journal" pages at various galleries. She is a columnist for "Sierra" magazine and her book, A Life in Hand: Creating the Illuminated Journal, *published by Peregrine Smith appeared in the fall of 1991. She has lived in the West for 13 years.*

Characters of Yellowstone: 901
September 9-10
$82 (Member's fee $72)

From the days before the creation of Yellowstone National Park in 1872 and well into this century, the Yellowstone Plateau attracted a cast of peculiar characters that matched the region's natural wonders. Some of them stayed only a season or two, while others decided to make Yellowstone their home. Some had heroic adventures and left their names on the landscape, while others sought solitude or sanctuary from civilization. This course will introduce students to the biographies of a dozen or more of these characters and visit places they frequented or made famous in Yellowstone.

Bill Lang, Ph.D., is research director of Center for Columbia River History in Vancouver, Washington. He has taught at Carroll College, the University of Montana and Montana State University. He has written many articles on Yellowstone history and is co-author of Montana: Our Land and People *and editor of* The Centennial West *and* A Columbia River Reader.

Autumn Scenic Photography in Yellowstone: 902
September 10-12 Old Faithful Area
$90 (Member's fee $80)

Fall, rich in wildlife and color, peacefully uncrowded, is a favorite time for photographers in Yellowstone. This class will headquarter in the Old Faithful area and is designed to give the more experienced photographer the opportunity for an autumn exploration–from vast scenics to intriguing close-ups. Techniques in equipment use, from wide angle lenses to macros will be covered. Special emphasis will be placed on the photo essay–combining pictures to illustrate a unified theme. Class begins at 4:00 pm on Friday and will end by 3:00 pm on Sunday. Activities include lectures, slide presentations, and time in the field.

(Note: Lodging is available at Old Faithful. Reservations should be secured early.)

Pete Houdeshel, see write-up under "Learning Outdoor Photography" on page 13.



The Last of the Wild Rivers: 903 NEW
September 11-12 Mammoth Hot Springs
$107 (Member's fee $97)

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

Bill Lang, see write-up under "Characters of Yellowstone" on page 21.

Autumn Wildlife Photography: 904 NEW
September 12-16 Mammoth Hot Springs
$166 (Member's fee $156)

In this four day class, you will have a chance to photograph Yellowstone's bountiful and diverse wildlife. Based out of Mammoth and scheduled during the height of the elk rut, students will have the opportunity to observe and photograph bugling and breeding behavior. Several different photographic techniques and wildlife approaches will be discussed and utilized during this course as they apply to wildlife ethics and sensitivity to the environment. The basic thrust of the course is towards exploring and developing a "creative eye," to not just photograph an animal, but to make a statement with your image, whether dramatic or subtle. Composition, lighting, filters and equipment will be addressed through discussions, slides, and video. Class will begin at 4:00 pm on September 12.

Linda DeLay-Joseph, B.S. and B.F.A., teaches photography in California at the Palos Verdes Art Center, Museum of Science and Industry, Cerritos College and for the Bodie Fine Arts Workshop Series. She is a published photographer and writer, with recent work published in the SRF Engagement Calendar, "Zoom Magazine," "The Explorer," produced by the Cleveland Museum of Natural History, and a photographer's guide, Photographing the Ghost Town of Bodie.

Wildlife Observation in the Fall: 905
September 16-19 Mammoth Hot Springs
$125 (Member's fee $115)

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 informal schedule will feature early morning and evening field trips, short midday hikes and interviews with researchers. Other topics will include bison, elk, rutting behavior, bears, photo tips, and optics. The course will headquarter in the Mammoth/Gardiner area and begin at 2:00 pm on September 16.

Gene Ball, see write-up under "Wildlife Observation in the Spring" on page 6.



Yellowstone's Night Skies: 906 NEW
September 16-19 Mammoth Hot Springs
$125 (Member's fee $115)

Yellowstone's clear night skies, free of urban light pollution, make for an exciting time for a course on observational astronomy. Many hands-on projects, games, and constellation stories from around the world introduce the student to 14 basic constellations. Student projects include a constellation viewer, sundial, and moon craters. A variety of hands-on demonstrations using globes, parabolic mirrors, and lenses make sense out of the science of astronomy. Many materials and handouts, along with videos and the instructor's multimedia slide shows, "The Amazing Universe" and "Our Solar System," make this course a fast-paced learning experience. Daily indoor and outdoor instruction and activities will be enhanced by night time outdoor telescope/binocular viewing of the skies. Class begins at 7:00 pm on Thursday, September 16 and will end after an evening session on September 19. Participants need to secure their own lodging arrangements in Mammoth or Gardiner. *The last night Mammoth Hotel is open for lodging is September 18.*

***Starshine, Ph.D.**, has a doctorate in Reading Education and has been teaching in the public schools for over 20 years. Her area of interest and expertise is in observational astronomy. She writes a weekly newspaper column on atsronomy and has conducted numerous workshops, including ones for the National Audubon Society and Elderhostel.*

The Living Stream: 907 NEW
September 21-23 Mammoth Hot Springs
$123 (Member's fee $113)

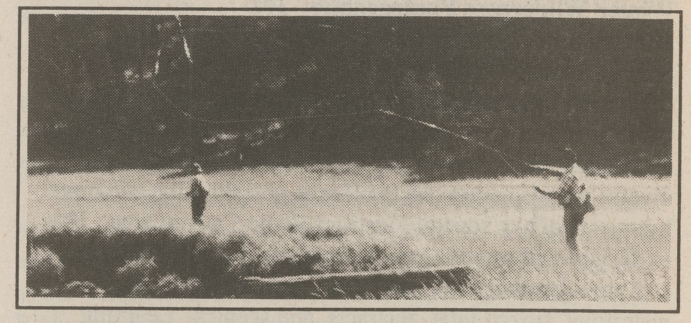
This course, based out of Mammoth Hot Springs, will explore the functioning of streams as entire ecosystems. It will explain how the various biological communities found in different size streams are dependent upon the physical, chemical, and biological characteristics of the entire watershed, and, most importantly, how they are linked in a continuum from the headwater reaches to the river's mouth. A slide-illustrated lecture will set the stage for the field and laboratory work. We will then visit different sized streams where we will discuss the information presented in the lecture, collect aquatic insects, identify the insects in the lab, and determine how well the information we gather fits into the current popular concepts of stream ecosystems in use today. Although the information learned in this class may not make you a better fisherman, it should certainly enhance the total fishing experience by making you aware of how the entire ecosystem functions as a whole. Participants need to secure their own campsite in Mammoth or lodging in Gardiner.

***Bert Cushing, Ph.D.**, is a Senior Research Scientist at the Pacific Northwest Laboratories and adjunct professor at Washington State University-Tri Cities. He has over 30 years of experience in studying streams and has published widely on this subject. He is currently editing the book* River and Stream Ecosystems of the World, *and is President of the North American Benthological Society.*

Yellowtone Stories: 908 NEW
September 24-26 Mammoth Hot Springs
$85 (Member's fee $75)

This course will focus on stories about Yellowstone—about people's responses to its natural wonders and encounters with its wildlife, about its natural and cultural history—told by natives, explorers and trappers, naturalists and historians, writers and artists, rangers and visitors. Beginning with an orientation to storytelling in general, we will then visit various sites in the park to hear and tell stories about its natural features and its wildlife, as well as its famous and not-so-famous visitors. In the process we will learn what stories tell us about people's perceptions of and responses to Yellowstone and discover how stories deepen our appreciation of and commitment to preserving the place. A reading list will be provided in the student packet one month before the class begins. Participants need to secure their own campsite in Mammoth or lodging in Gardiner.

***Barbara Allen** is a folklorist and oral historian with a Ph.D. in Folklore & Mythology from UCLA. As a member of the American Studies faculty at the University of Notre Dame for ten years, Dr. Allen taught courses in folklore, oral history and the American West. She has also taught at UCLA, California State University at Long Beach, and Western Kentucky University and for the University of Wyoming School of Extended Studies. She is the author of a book of stories gathered from the western United States and now lives in Rock Springs, Wyoming.*

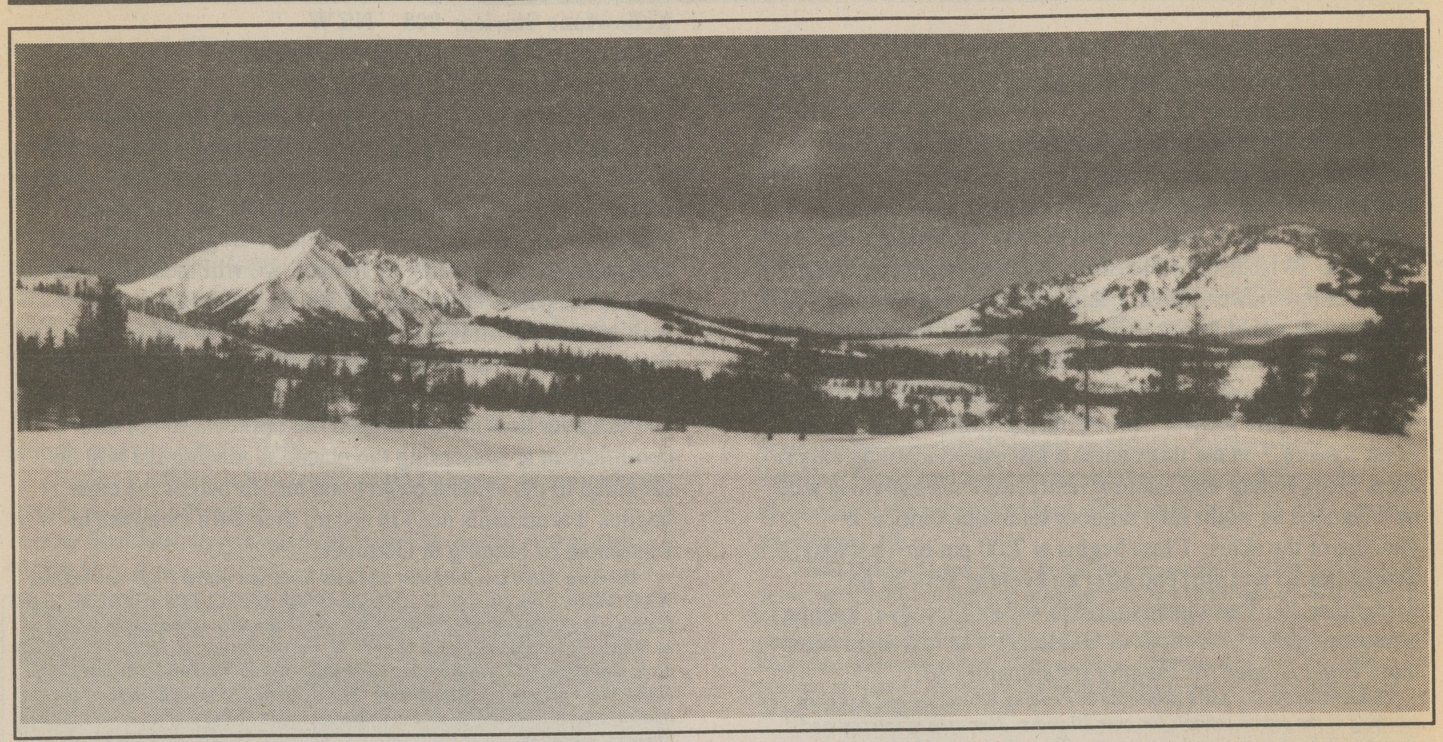


Fly Fishing in the Fall: 909 NEW
September 24-26 Mammoth Hot Springs
$153 (Member's fee $143) Limit: 9

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

***Richard Parks**, see write-up under "Fly Fishing the West Side" on page 8.*

1993-94 Winter Courses



Winter Wilderness Photography: 101
December 29, 1993-January 2, 1994 Canyon Area
$425 (Member's fee $415) Limit: 10

During this class you will be able to bring in the new year while spending four days in the park's interior at the Canyon Yurt camp, described on page 26. Explore the startling, diverse moods nature has to offer as you ski, hike and travel by snowcoach to several locations in the Canyon area. This workshop will provide you with an opportunity to observe and photograph a wide variety of subjects, including wildlife, waterfowl, frozen falls, abstracts, and scenics. Learning practical winter photography techniques is an intergral part of this course with attention given to composition, lighting, filter usage and developing the creative eye. It is helpful to have introductory level cross-country ski experience since you will be skiing 2-6 miles each day. Informal lessons will be provided as necessary. You must provide your own photographic and ski equipment. Class will begin in Mammoth Hot Springs at 7:00 pm on December 29.

The course fee covers tuition, all meals, three nights lodging at the yurt camp, round-trip snow coach transportation between Mammoth and Canyon and shuttle service throughout the course.

***Linda DeLay-Joseph**, B.S. and B.F.A., teaches photography in California at the Palos Verdes Art Center, Museum of Science and Industry, Cerritos College and for the Bodie Fine Arts Workshop Series. She is a published photographer and writer, with recent work published in the SRF Engagement Calendar, "Zoom Magazine," "The Explorer," produced by the Cleveland Museum of Natural History , and a photographer's guide,* Photographing the Ghost Town of Bodie.

Backcountry by Ski: 102
January 14-17 Fawn Creek, Yellowstone Backcountry
$185 (Member's fee $175) Limit: 10

Winter in the backcountry provides a challenging yet intensely beautiful and rewarding experience. Taking place over the Martin Luther King holiday weekend, the first night of this course will be held in a large cabin near West Yellowstone, Montana, allowing the group to get aquainted and organized. The next morning you depart by ski into the Fawn Creek backcountry for two days and two nights. Plan on a 2 mile ski with your pack to and from the campsite. There will be an opportunity to go for a 7 mile day ski the following day. A wide range of winter skills will be taught in the outdoor setting, including travel over snow, food preparation, snow shelter building, cold weather clothing, and the hazards of cold environments. Pre-trip readings, detailed equipment lists and personal contact with the instructor combine to make this course a fun and safe experience. Ski experience is recommended, but not required. Due to the cold, good physical condition is required.

Lodging in the cabin the first night, tents and food are provided as part of the course fee. You may rent other equipment (skis, boots, poles, packs, sleeping bags and pads) from the instructor for $30 or provide your own, if approved by the instructor.

***Scott Wood**, who also teaches "Lakes of Yellowstone by Canoe," and "Wilderness Thinkers & Their Legacies" has 18 years experience in outdoor education, is an instructor at Ricks College, and a doctoral candidate at the University of Utah.*

Winter Ecology: 103
January 14-17 Mammoth Hot Springs
$175 (Member's fee $165)

This course is a detailed introduction to the field of snow ecology and takes place over the Martin Luther King holiday weekend. Being based out of the Mammoth Hot Springs area, we will have easy access to a variety of snowscapes and wildlife habitats. Through classroom discussions and numerous interpretive ski tours, you will learn about snow as a substance and how it affects the lives of animals and plants; how and where snow develops and why it changes over time; how avalanches influence backcountry travel; and how to maintain human comfort in winter environments. Through snow pit analysis, the building of a quinzhee snow shelter, interpretation of changes in plants and animals, and the building of a winter camp you will learn about the wonderful world of winter. Most of each day will be spent on skis in the field, with up to 5 miles of skiing daily. It is helpful, but not necessary, for participants to have introductory level cross-country ski experience. Informal lessons will be provided.

***Don Nelson** is the Yellowstone Institute Director and 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 10 years.*

How Mammals Survive Winter: 104
January 29-30 Mammoth Hot Springs
$82 (Member's fee $72)

The snows of Yellowstone make winter a beautiful season. But for the mammals, it is a time of harsh reality; with scarce food, deep snow and raging blizzards. In this class you will learn how mammals survive winter. We will explore the subnivean (below snow) world of mice, voles, and weasels; and study the scavenger food web supporting coyotes and mountain lions. Analysis of the nutritional needs and energy balance of antelope, deer, elk and eagles will be examined. Morning lectures will be followed by afternoon drives to observe and photograph animals in winter. Short field exercises to explore the subnivean and track mammals will necessitate warm clothes. No skiing or snowshoeing will be necessary for this program. Participants need to secure their own lodging reservations in Mammoth or Gardiner.

***James Halfpenny, Ph.D.**, is an ecologist and educator. Most recently he was coordinator of the Long-Term Ecological Research Program and Institute of Arctic and Alpine Research at the University of Colorado. Annually he travels North America studying bears and their sign. He has taught since 1966 in the Greater Yellowstone Ecosystem and is author of* A Field Guide to Tracking in North America *and* Winter: an Ecological Handbook. *His research has included expeditions to Antarctica, Canada, China, Greenland, Kenya and Tanzania.*

Yellowstone's Winter World: 105
February 18-21, 1993 Canyon Area
$425 (Member's fee $415) Limit: 10

This course takes place over the Presidents Day Holiday and starts out from Mammoth, but is based out of the remote Canyon Yurt camp. Similar to "Winter Ecology," but immersed in a winter environment, this course is a detailed introduction to the field of snow ecology. Through "classroom" discussions and interpretive ski tours, you will learn about snow as a substance and how it affects the lives of animals and plants; how and where snow develops and why it changes over time; how avalanches influence backcountry travel; and how to maintain human comfort in winter climates. Most of each day will be spent on skis in the field analyzing snowpits, building a quinzhee snow shelter, and interpreting changes in plants and animals. You can expect a maximum of 3-7 miles of skiing per day. There will also be unstructured time for exploring and skiing on your own.

It is helpful, but not necessary, for participants to have introductory level cross-country ski experience. Informal lessons will be provided as necessary.

The course fee covers tuition, all meals, three nights lodging, and round-trip snow coach transportation between Mammoth and Canyon and throughout the course.

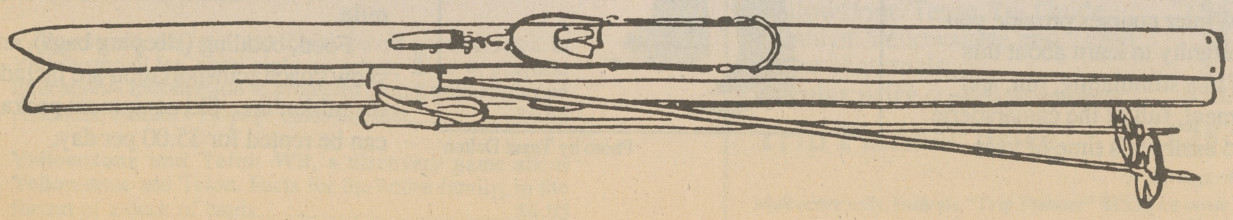
***Don Nelson**, see write-up under "Winter Ecology" at left.*

Winter Wildlife and Atmospheric Scenics: 106
February 23-27 Mammoth Hot Springs
$265 (Member's fee $255)

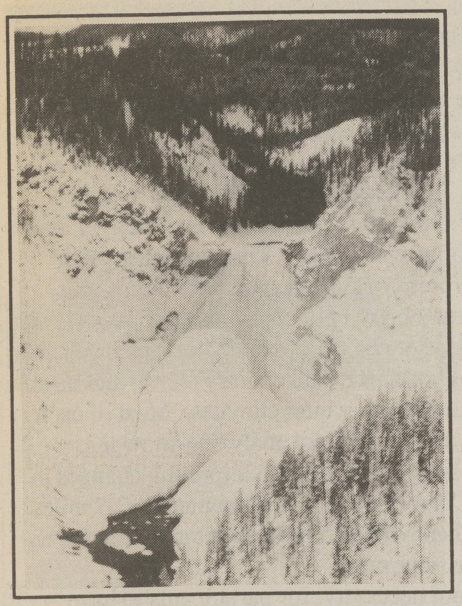
While based out of Mammoth Hot Springs, students will have five days to photograph and explore the dramatic, subtle and mysterious moods of Yellowstone's snowscapes, as well as the wildlife that abounds in the northern part of the park. Bighorn sheep, elk, bison, and waterfowl congregate in the area, making observation and photography fairly easy. Learning winter photographic techniques, fine-tuning technical aspects, and exploring new ways of thinking, seeing and photographing will be the emphasis of this course. Throughout the course, students will travel by ski, van or snowcoach to various locations. Participants need to secure their own lodging reservations in Mammoth or Gardiner.

A full-day snow coach trip to Norris Geyser Basin is included in the tuition fee.

***Linda DeLay-Joseph**, see write-up under "Winter Wilderness Photography" on page 24.*



Winter General Information



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

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

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

Mammoth Hot Springs Area

Several of the Institute's courses will be based out of the Mammoth area close to excellent skiing and wildlife viewing. 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. Classroom meetings will take place in a Park Service conference room. Lodging reservations should be made as soon as possible. Call TWR Services at (307) 344-7311 for reservations.

The small 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 accomodations is available from the registrar.

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

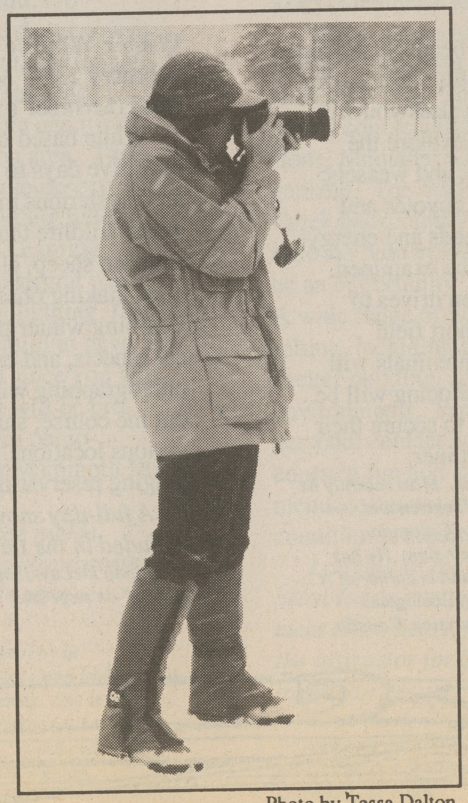
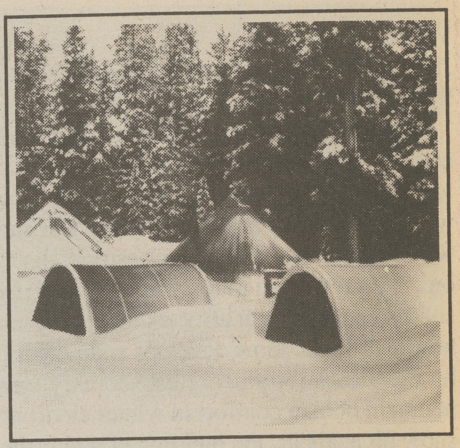


Photo by Tessa Dalton

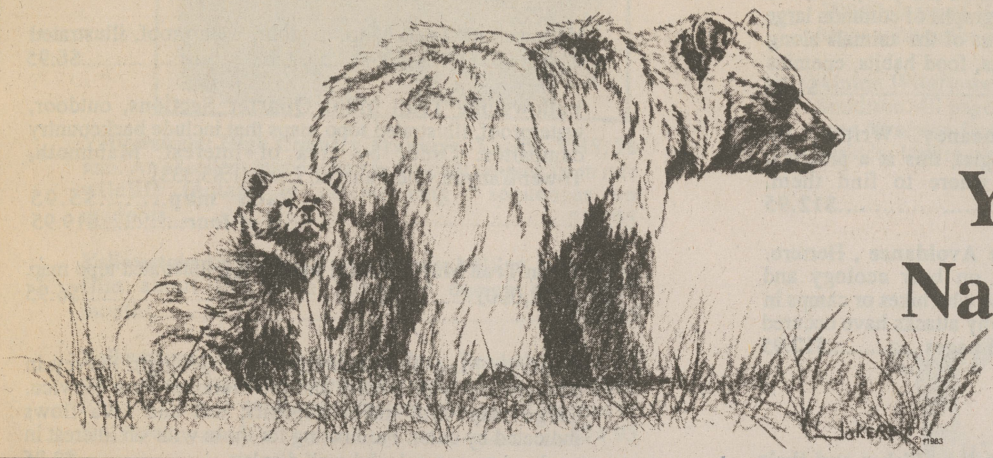


Canyon Yurt Camp The Yellowstone Institute will conduct two of its winter courses, "Winter Wilderness Photography" and "Yellowstone's Winter World," in a very unique setting and situation at Canyon Village, near the center of Yellowstone National Park. During the summer months the Canyon area is one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

In conjunction with Yellowstone Expeditions, this extraordinary experience begins with a 35 mile snowcoach ride from Mammoth Hot Springs to Canyon Village. At the destination you will find your rustic lodging and eating accomodations. The kitchen and dining facility consists of two heated, 15 foot diameter yurts; rigid, yet portable shelters used by nomadic people. Sleeping units for two people are simple, yet comfortably heated wooden and canvas structures on platforms. There is a heated pit toilet on location and also a park restroom with running water within one-fourth of a mile.

Food, bedding (sleeping bags), and snow coach transportation are included in the tuition fee. Ski equipment packages can be rented for $5.00 per day.

BOOKS, MAPS and PAMPHLETS



about

Yellowstone National Park

Wildlife drawing above and those throughout brochure are from *Western Wildlife Portfolio* by James Jokerst and are available under POSTERS AND PRINTS on the following page.

GENERAL

___ **National Parkways,** Yandell, large color pages with maps. A photographic and comprehensive guide to the park.
Yellowstone, 80 pages.....$5.95
GrandTeton, 68 pages.....$5.95

___ **Hamilton's Guide,** Lystrup, 160-page guidebook to Yellowstone with information on facilities and services. Color photos and maps.....$3.95

___ **Greater Yellowstone National Forests,** Wilkinson. This book describes the six national forests surrounding Yellowstone & Grand Teton . Information is given on points of interest, wilderness areas, recreational opportunities and administrative offices. 104 pages.....$14.95

___ **Yellowstone: A Visitor's Companion,** Wuerthner. A wonderful background guide to Yellowstone and the surrounding area with chapters on: history, geology, climate, flora, fisheries and more. Also includes a bird list and field guide to plants and animals. 218 pages.....$14.95

___ **Yellowstone / Grand Teton Road Guide,** Schmidt and Fuller, 96 pages with easy to use strip maps and side by side commentary. Tells you where to see elk, deer,bear, and other wildlife. Also gives you information on scenic overlooks, side trips, geology, and a special section on the 1988 fires.....$4.95

EDUCATIONAL GAMES

___ **Yellowstone,** deGolia and Zarki, board game created in Yellowstone, for ages eight to adult, 2 to 4 players; Educational introduction to problems facing wild herds and predators, includes 28-page color booklet.....$9.95

___ **Yellowstone and Teton Wit,** a discovery game about Yellowstone and Teton. Facts for the entire family, in the format of a deck of cards.....$6.95

HIKING AND CAMPING

___ **Day Hiking,** Carter. Complete descriptions of 20 great short hikes, including history, geology and wildlife facts, some maps. 80 pages.....$3.75

___ **Yellowstone Trails: A Hiking Guide,** Marschall, 120-page backcountry guide covering over 1000 miles of park trails. Contains useful information on backcountry use rules and how to hike through bear country.....$4.95

___ **Teton Trails,** Harry, 56 page guide to the hiking trails of Grand Teton National Park, including illustrations and maps.....$1.95

___ **Short Hikes and Easy Walks in Teton National Park,** Hayden and Freilich. Contains 14 hikes with large clear easy to read maps.....$1.00

___ **Trail Leaflets,** Set of six leaflets describing the following areas of interest in Yellowstone: Canyon, Fountain Paint Pots, Mud Volcano, Upper Geyser Basin, Mammoth Hot Springs, and Norris Geyser Basin.....$1.50

Deluxe Trip Planner

Unsure about what to order? We've put together a Trip Planner package at a special price which will give you the information you need to plan your trip and understand what you're seeing once you're here. The Trip Planner includes:

Hamilton's Guide	$3.95
Yellowstone Trails-A Hiking Guide	$4.95
Yellowstone Park Map North	$3.00
Yellowstone Park Map South	$3.00
Yellowstone/Teton Rd. Guide	$4.95
Plants of Yellowstone and Teton	$8.95
Large Mammals	$1.95
Regular price (if purchased separately)	$30.75
Trip Planner price	**$25.75**

A savings of $5.00

Mail order only. Indicate "Trip Planner" $25.75 on order form.

WILDLIFE

— **Wildlife of Yellowstone and Grand Teton,** Scott. 64 pages, includes mammals, birds, fish, reptiles and amphibians. With complete up–to–date checklist.....$5.95

— **Large Mammals,** Craighead. Updated this year, the book contains 31 pages with color photographs of common large mammals. Included are descriptions of the animals along with information on habitat, tracks, food habits, enemies and reproductive biology.....$1.95

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

— **Bear Attacks: Their Causes & Avoidance ,** Herrero. Written by a leading authority on bear ecology and behavior, this book is for everyone who hikes or camps in bear country. It details how and why attacks have occured and how best to avoid them. 206 pages.....$12.95

FISH AND FISHING

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

— **Yellowstone Fishing Guide,** Charlton, 104 pages. An accurate and comprehensive book on fishing the waters of Yellowstone National Park. Good for the novice who wants to fish close to the car as well as for those who want to hike into the backcountry.....$9.95

— **Fly Patterns of Yellowstone,** Mathews & Juracek. Written by the owners of Blue Ribbon Flies in West Yellowstone, MT, this book contains over 40 fly patterns. Not only are you given excellent directions on tying, but also information on where to use the finished product in the Yellowstone area. 84 pages.....$17.95

— **Lakes of Yellowstone,** Pierce. This guide describes and gives directions to 49 lakes and gives basic information on another 40. Includes information on fishing, hiking, wildlife, access, and thermal features. 197 pages....$10.95

POSTERS AND PRINTS

— **We Are All One Family,** Buchfink, striking images of wolf, American Indian and dragonfly symbolizing the circle of life and the link between lifeforms. 32.55in. x 22.25in.
Poster.....$15.00
Signed, limited edition print.....$90.00

— **Close To Mom** is a dramatic 22" by 28" poster which includes a painting by Carl Brenders (Mill Pond Press) of a grizzly and three cubs along with interpretive information about the bear. The profits from the sale of this poster go to Bear Research in Yellowstone.....$5.95

— **Western Wildlife Portfolio,** Jokerst, twelve 9x12 black and white wildlife prints, major park mammals, descriptive text.....$5.50

— **Moran Portfolio,** Published by the Yellowstone & Grand Teton Natural History Associations. This portfolio contains eight reproductions of watercolor sketches done by Thomas Moran in Yellowstone & Grand Teton National Parks. Also included is an introduction by Peter Hassrick, Director of the Buffalo Bill Historical Center, giving backround information on Moran.....$9.95

MAPS

— **Yellowstone Maps.** General purpose maps, each covering half the park. Maps include highways, trails, campgrounds, boat launches and fishing information.
Yellowstone Map North.....$3.00
Yellowstone Map South.....$3.00

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

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

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

— **Geologic Map of Yellowstone,** US Geologic Survey in cooperation with NASA and the National Park Service. Large map with major deposits, ash and lava flows indicated by color. Fascinating for those with an interest in geology or as a colorful wall display.....$3.25



GEOLOGY

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

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

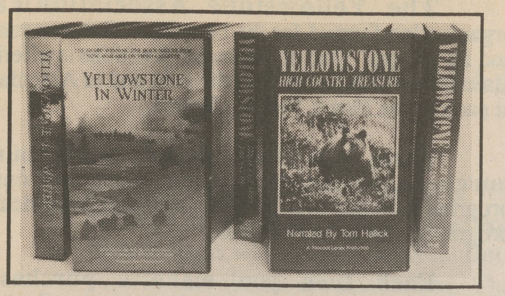
— **Guide to Geyser Gazing,** Rinehart, 64-page book on geysers, how they function, locations and other interesting facts.....$1.40

— **Story of Old Faithful,** Marler, 48 pages, color photographs and illustrations. Facts and figures about the famous Yellowstone geyser; charts on frequency of eruptions, height of eruptions, earthquake effects, and more.....$2.50

— **Geologic Map of Yellowstone,** US Geologic Survey in cooperation with NASA and the National Park Service. Large map with major deposits, ash and lava flows indicated by color. Fascinating for those with an interest in geology or as a colorful wall display.....$3.25

— **Geysers: What They Are and How They Work,** Bryan, 23 pages. This is a book of "hows." After establishing just what geysers are, the book will develop the current understanding of how they work, how they differ, and how they change through the passage of time. Ages 8 through adult. Available March 93.....$5.95

VIDEOS



___ **Yellowstone: High Country Treasure,** Landis, VHS, 78 min. An excellent introduction to the park ranging from rare wildlife footage to mesmerizing sequences on mudpots.....$29.95

___ **Yellowstone in Winter,** Bayer, 60 min. VHS. A fascinating film about life in Yellowstone during the frigid months.....$24.95

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

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

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

RECOMMENDED FOR CHILDREN

___ **Yellowstone: A Children's Guide,** Balthis, 32-page guide for children with pictures to color..... $2.75

___ **Park Ranger!** Hoofnagle & Dunmire, 32-page coloring book telling what park rangers do, with strong environmental message.....$1.95

___ **Family Fun in Yellowstone National Park,** 49 pages. An informative guidebook for the entire family.....$2.95

___ **Young People's Guide to Yellowstone National Park,** Tawney, guidebook to be used by the entire family, 143 pages.....$7.95

___ **The Everywhere Bear,** Robinson. Awonderful book filled with games, stories, stickers and information on bears . 64 pages.....$7.95

___ **Wolf Pack,** Johnson and Aamondt, 96 pages. Well researched and written book about the life of a wolf pack with full-color, close-up photographs sure to capture the imagination of children ages 10 and up.....$5.95

___ **Geysers What They Are and How They Work,** Bryan, 23 pages. This is a book of "hows.". After establishing just what geysers are, the book will develop the current understanding of how they work, how they differ, and how they change through the passage of time. Ages 8 through adult.....$5.95

___ **A Yellowstone A B C,** Martin. This 20 page alphabet book for the young traveller is an educational guide to the natural history of Yellowstone.....$5.95

PLANT LIFE

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

___ **Wildflowers of Yellowstone and Grand Teton,** Shaw. 56 pages with color photos and descriptive text.....$6.95

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



HISTORY

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

___ **Volume I** traces the buildup of knowledge of the Yellowstone area gained from Indians, fur trappers, prospectors and explorers. Covers the enactment of federal legislation to establish the world's first national park. Paperback..$12.95

___ **Volume II** is a record of the first hundred years of the park. Traces construction of park roads and facilities, visitor activity and experiences from stagecoaches and tents through autos and hotels. Paperback...$12.95

___ **Ferdinand Vandiveer Hayden and the Founding of Yellowstone National Park,** Hayden's early exploration and events that led to the establishment of Yellowstone as the first national park, 44 pages.....$0.75

___ **Colter's Hell and Jackson's Hole,** Mattes, 88-page story of trapper days in Yellowstone and Grand Teton National Parks, with drawings and maps.....$2.95

___ **Mountain Man & Grizzly,** Gowans, 210 pages. An illustrated collection of early observations and stories about the great bear. Hardcover.....$14.95

___ **Chief Joseph's People and Their War,** Josephy Jr., 21 pages. 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.....$1.25

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The Yellowstone Association

for Natural Science, History & Education, Inc.

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

The Yellowstone Association is a not-for-profit organization formed for the benefit of Yellowstone National Park and its visitors. One of our major functions is offering educational materials to visitors through the mail and in Association sales areas at each of the Park's Visitor Centers.

There is a double benefit from your Association purchase. Proceeds from our sales and our membership program are used to support educational, historical and scientific programs here in Yellowstone.

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The Institute Appreciates Your Help

With 80 classes in 1993 and over 700 students each year, the Yellowstone Institute has a diversity of needs. Each year many people have generously supported the Institute by donating various items that we have needed. But, we continue to develop new needs as equipment wears out and new classes are established. The Yellowstone Institute is non-profit, and in fact, our costs exceed our income in most years. Therefore, your gifts and donations are important and greatly appreciated. Donations to our general scholarship fund are always welcome and enable students to attend who may not otherwise be able.

Please accept this invitation to join.

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When you become a member of the Yellowstone Association you will have a role in a non-profit, educational project which began in 1933. The Association was founded to serve Yellowstone National Park and its visitors through support of educational, scientific, and historical programs.

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)
* A 15% discount on items sold by the Yellowstone Association (in Visitor Centers or by mail)
* Discounts on Yellowstone Institute field courses
* Informative newsletters
* Discounts on Yellowstone Institute products
* Tuition credit for late course cancellations
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* Invitations to special members' activities
* Unusual volunteer opportunities
* Association with other individuals with similar interests
* Opportunity to support scientific, educational, and historical programs in Yellowstone Park
* Credit for a tax-deductible gift (to the extent allowable by law)
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You may be assured that your membership gift will be gratefully received and efficiently used.

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THE YELLOWSTONE ASSOCIATION

For Natural Science, History & Education, Inc.

Annual Dues:

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

The Yellowstone Association
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Yellowstone National Park, Wyoming 82190

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Duplicate this form for multiple registrations if necessary

REGISTRATION FORM

(Note: Refund Policy on page 5)

Name(s)_____ [ ] Male [ ] Female

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)

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

Lodging:
[ ] I want to stay at the Institute cabins at Lamar the following nights at $8/night. Dates_____
[ ] My class does not meet at the Lamar facility. See my attached note regarding need for information.
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Total Tuition Fee(s) _____

Cabin Fee at $8 per night _____

Membership (optional) _____
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Yellowstone Park, WY 82190

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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 feature areas; accident or illness in areas remote from medical facilitites; 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(s)_____
(Signatures for all participants required)
If under 21 years of age, parent or guardian must sign
If under 21, give age_____