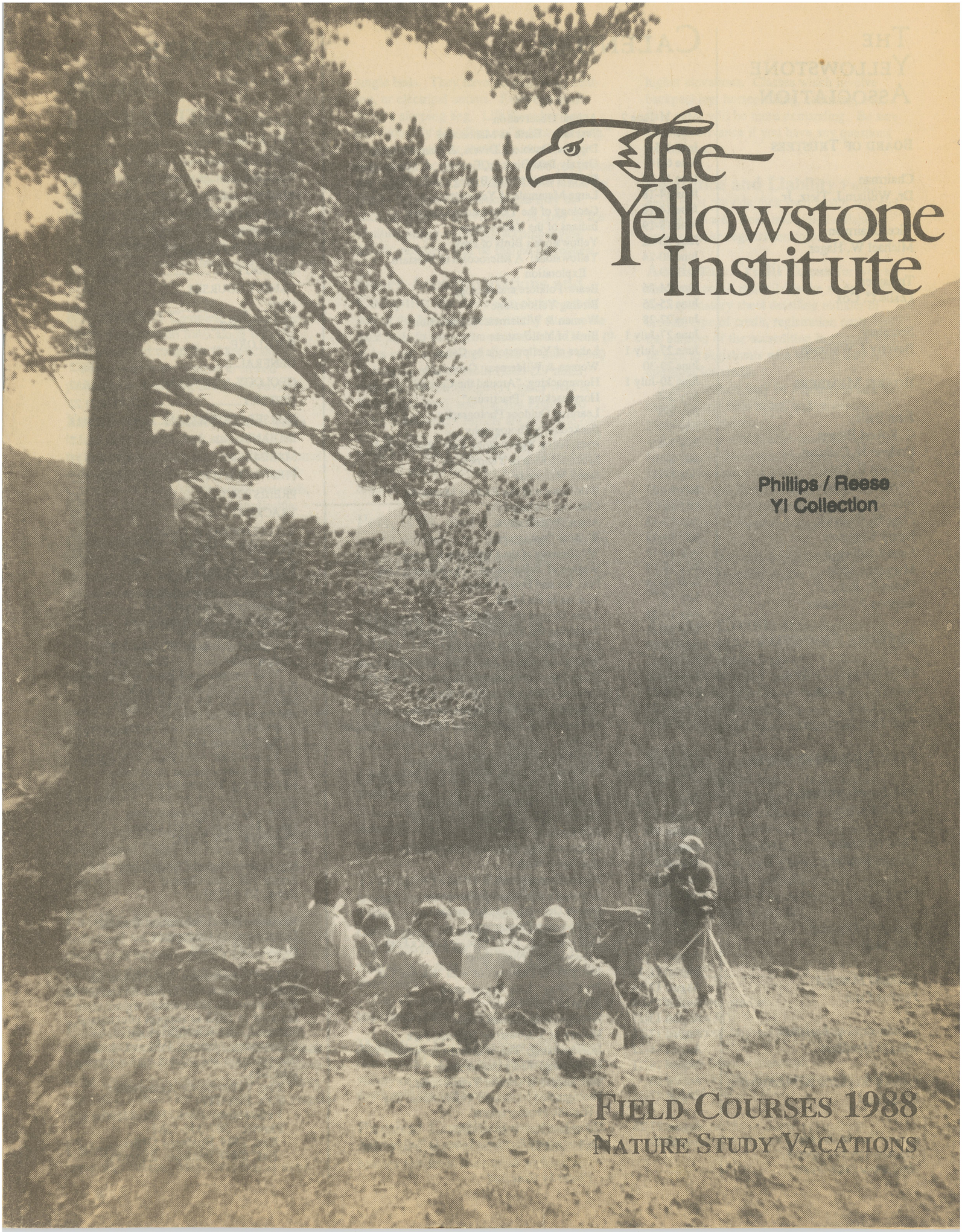


The Yellowstone Institute

Phillips / Reese
YI Collection

Field Courses 1988

Nature Study Vacations

The Yellowstone Association

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Cover: Tom McBride's "Backcountry Photography" class above Pilot Creek.

Calendar

May 31-June 2	Animal Observation
June 4-5	Tracking: Earth as Manuscript
June 4-5	Dippers, Dabblers, Divers, & Dam Builders
June 6-10	Grizzly Bear Biology, Ecology, & Management
June 11-12	Elk of Yellowstone: Biology & Ecology
June 14-18	Large Mammals of Yellowstone
June 14-18	Geology of the Yellowstone Country
June 18-19	Indians of the Yellowstone
June 20-22	Yellowstone's Birds of Prey
June 20-24	Yellowstone: A Microcosm of Western Exploration
June 24-26	Bears: Folklore and Biology
June 25-26	Birding Yellowstone
June 27-28	Women & Wilderness: Introduction
June 27-July 1	Birds of Yellowstone
June 27-July 1	Lakes of Yellowstone by Canoe
June 29-30	Women & Wilderness: Overnight
June 30-July 1	Horsepacking: "Around the Corrals"
July 2-4	Horsepacking "Practicum"
July 2-5	Learning Outdoor Photography
July 5-9	Backcountry Photography
July 7-8/9	Interpreting Yellowstone with "Ranger Ted"
July 8-10	Mountain Men in Yellowstone
July 8-11	Small Mammals
July 9-10	Wildflowers of the Bechler Meadows
July 11	Close-up Photography
July 12-13	Alpine Wildflowers
July 12-15	Wildlife Photography
July 14-16	Wildflowers of the High Lake Country
July 16-17	Wolves of Yellowstone: The Missing Link
July 16-18	Fire, Ice and Fossil Forests
July 18	Wolves of the Mind
July 19-21	Three Days at the Buffalo Ranch (Ages 8-12)
July 19-21	Exploring the Yellowstone Ecosystem
July 19-23	Backcountry Llama Trekking
July 22-23	Wilderness Hiking & Camping in Grizzly Country
July 23-25	Three Days at the Buffalo Ranch (Ages 8-12)
July 23-25	Geysers, Mudpots, and Hot Springs
July 26-29	Session I: The Yellowstone Caldera
July 26-30	Horsepacking: Exploring the Old Faithful-Bechler Trail
July 27-29	The Ways of the Mountain Men
July 30-Aug. 2	Mammal Tracking: Interpreting Tracks, Scat and Other Sign
July 31-Aug. 3	Session II: Hydrothermal Systems
August 3-4	Family Days: Camping Rendezvous
August 3-5	Fire Ecology
August 3-7	Horsepacking: The Nez Perce Trail
August 5-7	Star Trails West
August 5-8	Alpine Ecology
August 6-7	Prehistory of Greater Yellowstone
August 8-10	Nature Drawing and Illustration
August 8-12	Backcountry Photography
August 9-11	Horsepacking: Nez Perce — Clark's Fork
August 9-12	Yellowstone's Night Skies
August 11-12/13	Interpreting Yellowstone with "Ranger Ted"
August 12-14	Fly Fishing: Less Experienced
August 13-14	Bison of Yellowstone
August 13-17	Horsepacking: Indian Trails
August 17-21	History of Yellowstone National Park
August 18-22	Horsepacking: The Washburn Expedition Trail
August 19-21	Fly Fishing: More Experienced
August 26	Bald Eagles of Greater Yellowstone
August 27-28	Photographic Lenses on Yellowstone: The Historic Photographers
August 27-28	Hikes Into Yellowstone's Past
August 29	Contemporary Resource Issues in Yellowstone

Photos by Gene Ball

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DIRECTORY

For General Information about Yellowstone National Park campgrounds and opening and closing dates contact:
Visitor Services 307-344-7381
Box 168 Ext. 2206
Yellowstone Nat'l Park, WY 82190

For Information about in-park lodges, hotels, RV parks, marina, and reservations contact:
TWR Services, Inc. 307-344-7311
Yellowstone Park Division
Yellowstone Nat'l Park, WY 82190

For travel information from states surrounding Yellowstone contact:

Wyoming Travel Commission
Frank Norris Jr. Travel Center
Cheyenne, WY 82002

Idaho State Travel Commission
Room 108 State Capitol
Boise, ID 83720

Montana Travel Promotion Bureau
Department of Commerce
Helena, MT 59620

The Yellowstone Association for Natural Science, History & Education, Inc. is a non-profit, tax-exempt organization founded in 1933 to support educational, historical, and scientific programs in Yellowstone National Park which aid interpretation and related visitor service activities.

The Yellowstone Association
P.O. Box 117
Yellowstone Park, WY 82190
Phone: 307-344-7381
Ext. 2349 Business Office
Ext. 2384 Institute Registrar

General Information

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

There are discounts for current members of the Yellowstone Association or those who join when they enroll. Memberships are tax-deductible.

Registration Complete and mail the attached registration form along with the tuition fee (and cabin fee if applicable).

Most courses are limited to fifteen participants. Early registration is advised.

Enrollment Packet Several weeks before class begins, each student will be mailed a Yellowstone National Park entrance and campground fee waiver plus a list of equipment to bring, course study materials, and recommended readings if applicable.

Cancellation Policy Enrollees who cancel at least one month in advance will receive an 80% refund. Members receive full refund minus a $5-per-course cancellation fee. For less than one month's notice, refunds will be given (at the above rates) only if the vacancy can be filled. In all cases, cancellation fees may be applied toward tuition for another course during a one-year period.

The Institute reserves the right to cancel a course if fewer than eight persons are enrolled 30 days prior to the first class day. Enrollees will be notified immediately and will receive a full refund.

Location Courses are held at various locations. Most are conducted at a Park Service facility known as the old Buffalo Ranch in the Lamar Valley between the Northeast Entrance and Tower Junction. See map on page 4.

Facility The Institute's log building is heated and has two classrooms, three bathrooms with showers, and a kitchen where people do their own cooking. The facility, though clean and adequate, is fairly simple.

Food and Preparation Unless otherwise specified, participants provide their own food. There are stoves and refrigerators in the kitchen, but space is limited. Cooking and eating utensils are provided. Food preparation should be kept rather simple.

Cabins There are thirteen *multiple-occupancy* cabins. Most have two or three single beds. They have no plumbing, heating, or electrical outlets. Everyone must bring a sleeping bag. Life there has been affectionately described as "indoor camping." Cabin reservations should be made when registering for class. The fee is $6 per person per night. Space is limited. Cabin rental for family members of participants may be allowed if space is available. A copy of the Institute policy regarding accompanying family members will be mailed on request.

Other Accommodations 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) or lodging at 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). A list of nearby facilities will be sent on request.

Pets, RVs, and Camping Pets are not allowed at the Institute, and there are no provisions for camping and recreational vehicle use on the grounds at the Yellowstone Institute facility.

Lodging for Courses at Other Locales For courses which do not meet at the Institute's Lamar facility, information about camping and lodging options will be sent upon request or when registration is received. For some classes, group campsites will be reserved. The Institute office is ready to assist or advise.

For classes which meet at other locales in the park, rooms may be reserved through TWR Services (307-344-7311). Due to demand for these rooms, early reservation is essential. Contact the Institute office for advice and details.

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

Call the Institute office for advice on air or bus transportation to Yellowstone.

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

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

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

Academic Credit Courses for which academic credit is available are so designated. An explanatory sheet detailing number of credits, type of credit, registration costs, and the address of the accrediting institution will be sent to registrants who indicate they are enrolling for credit.

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, University of Idaho, BrighamYoung University, and Ricks College. Regis-tration forms will be provided on the first day of class. Fees for credit are usually $25-$40 per class.

Students may also enroll through their own university under a plan for independent study.

Teacher Credits Many teachers have enrolled in Institute courses for recertification credit or professional growth. Institute personnel will assist any teacher who wishes to pursue the matter or needs more information and will provide documentation of attendance. There is no extra charge for this service.

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

Humanities courses offered by the Yellowstone Institute were partially funded by grants from the Wyoming Council for the Humanities in 1985, 1986 and 1987.

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

Institute Office at Mammoth
8:00—4:30 MST (For registration information)
307-344-7381 ext. 2384

Institute Facility in Lamar Valley, YNP
(June—August) 307-344-7749

Unless otherwise stated, classes meet at the Institute facility at the Lamar Station (the old Buffalo Ranch).

The Yellowstone 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:*

* *Donated research library to park in 1967 and provides continued support through purchase of books and periodicals and hiring of part-time librarians*
* *Operates book sales outlets in Visitor Centers throughout the park*
* *Founded The Yellowstone Institute in 1976 and serves as its sponsoring organization*
* *Publishes trail guides for self-tours of thermal areas*
* *Publishes books and pamphlets pertaining to Yellowstone*
* *Assists naturalists with visitor information services at Visitor Centers*
* *Prints schedules of naturalist programs for visitors*
* *Administers grants and gifts received for designated projects in Yellowstone*
* *Funded Yellowstone's first braille trail*
* *Contributed funds for museum exhibits and research equipment*

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

Dear Reader,

The Yellowstone Institute is a grand project and an effective way for you to see and appreciate Yellowstone. Whether you're seeking a new educational experience, a serene rejuvenation, a backcountry adventure, an unusual and economical vacation, or academic credit, the Yellowstone Institute can be your source.

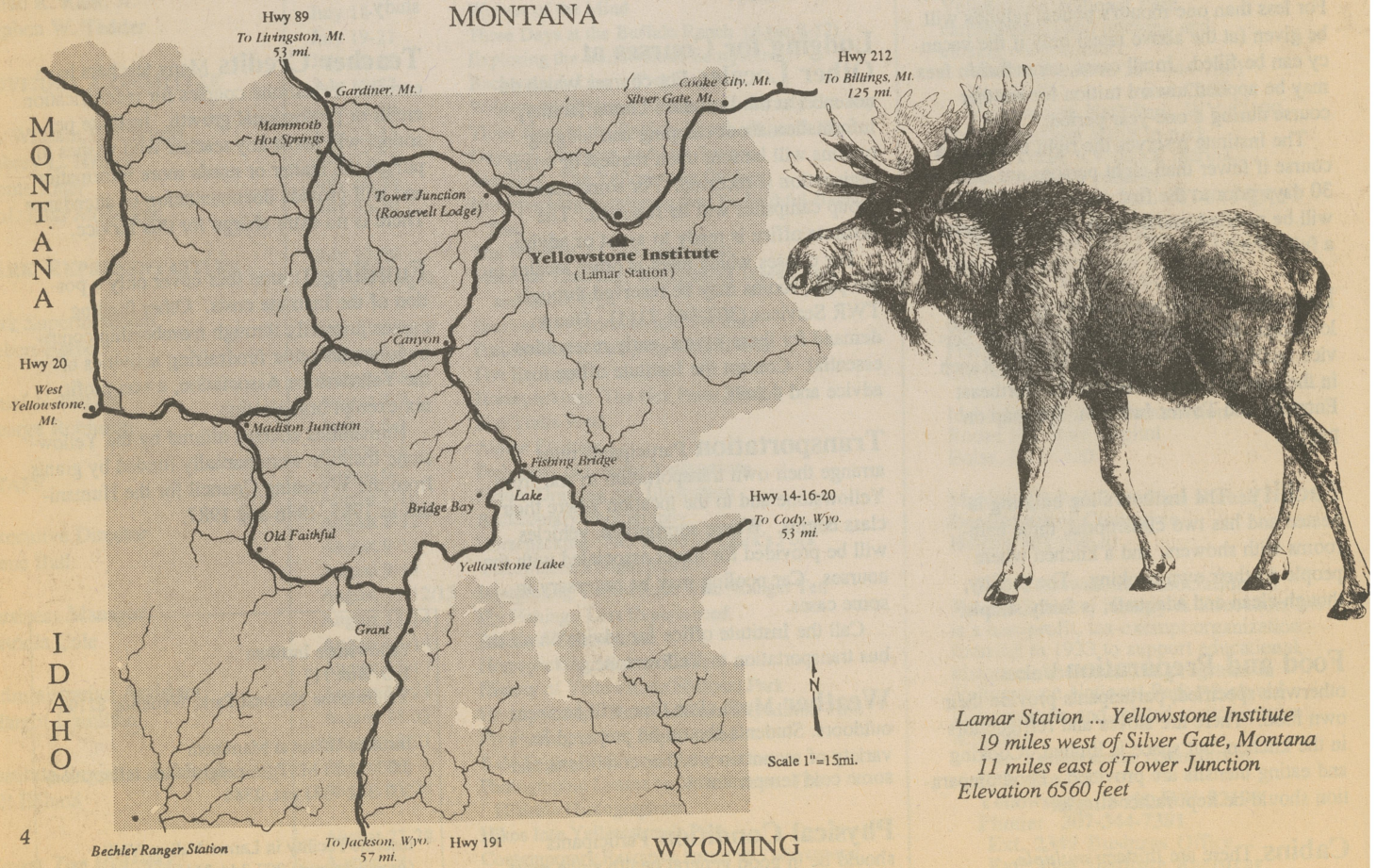
Of those who travel each year to this restless but enduring land, only one in ten thousand discovers and participates in the Yellowstone Institute. Through the Institute you can explore the secrets of Yellowstone, learn about the wonders of the land and its life forms, enjoy a distinctive experience, meet people with similar interests, and learn from top-notch instructors who are knowledgeable, sensitive, and perceptive about their subjects.

Enrich yourself with views of magnificent vistas and abundant wildlife. Make the natural world of Yellowstone part of your life.

Join us at the Yellowstone Institute.

Sincerely,

Gene Ball, Director



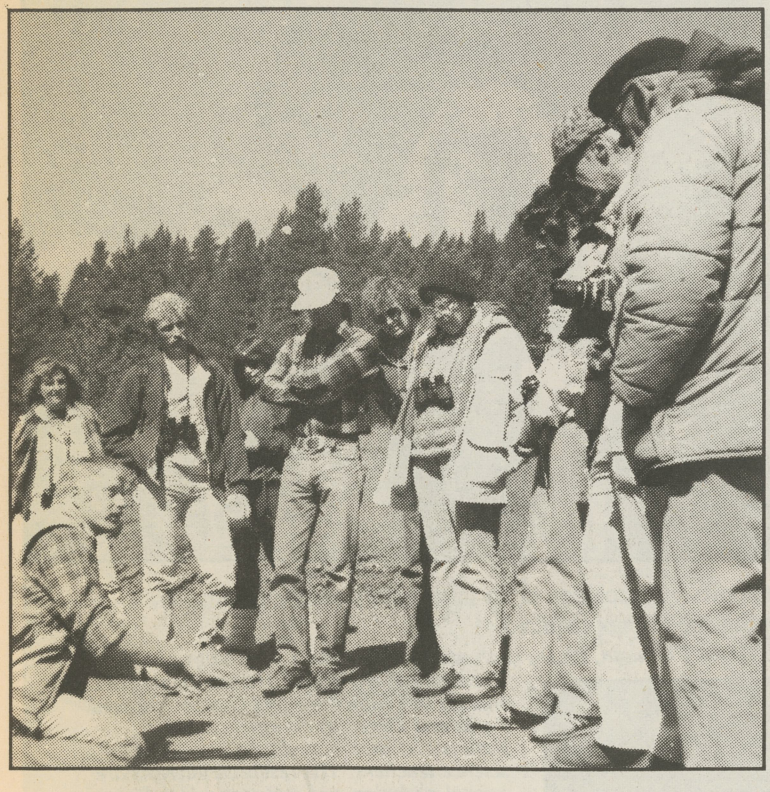
Lamar Station ... Yellowstone Institute
19 miles west of Silver Gate, Montana
11 miles east of Tower Junction
Elevation 6560 feet

1988 Summer Field Courses

Animal Observation
May 31-June 2
$95 (Members fee $85)

Field observation will be the major goal and activity of this class. The informal format will feature early morning and evening field trips with afternoon programs on related topics such as osprey, moose, bears, birds, animal sign, observation techniques, photo trips, and optics. Activities begin on the evening of May 30.

Gene Ball, Yellowstone Institute director, will be the coordinator for the course which will include presentations by ***Gerry Green*** *(grizzly bear researcher),* ***Joe Zarki*** *(coauthor of the Yellowstone Bird Checklist),* ***Dan Tyers*** *(wildlife researcher), and others.*



Tracking: Earth as Manuscript
June 4-5
$65 (Member's fee $55)

This course is designed to be an intensive two-day field study on observing and interpreting animal sign. Minimal time will be spent in formal lectures. Field trips will be along the Lamar River and surrounding areas. Emphasis will be placed on acquiring the skills necessary to learn the art of animal tracking. The class will begin with an evening session on Friday, June 3.

Gerry Green *is currently a field ecologist for the Interagency Grizzly Bear Study Team. He is a member of the Northwest Pacific Trackers Association, has a degree in wildlife bology from the University of Montana, and has studied tracking under Tom Brown, Jr.*

Dippers, Dabblers, Divers, & Dam Builders
June 4-5
$65 (Member's fee $55)

Water environments in Yellowstone are exciting areas for a study of ecological relationships of birds and mammals. This field course will emphasize observation and identification of species, field signs, food habits, habitat requirements, and interactions of mammals (muskrats, beaver, river otter, bear, . . .) and birds (geese, eagles, dippers, swans, terns, osprey, . . .) with their aquatic environment.

Terry McEneaney *is a management biologist in Yellowstone National Park. He was a wildlife biologist for the U.S. Fish & Wildlife Service for 12 years, has taught field ornithology for the Nature Conservancy in Montana, and is the author of* Birds of Yellowstone, *a new book dealing with ecological relationships.*

Grizzly Bear Biology, Ecology, and Management
June 6-10
$195 (Member's fee $185)
Credit available (U or G, 1 semester hour; U of ID)

This course will deal with a variety of considerations relating to the ecology and management of grizzly bears in the Yellowstone ecosystem. Primary emphasis will be on management, but other subjects include history, reproduction, behavior, population characteristics, food habits, home range, denning, habitat use, management guidelines, recovery plan, and bear-man conflicts. Approximately equal time will be spent in classroom and field studies.

Steve Mealey *is forest supervisor of the Shoshone National Forest and holds degrees in forestry, fish and wildlife management, and political science. During the '70s he was deeply involved in grizzly habitat research including work on the Border Grizzly Project and the Yellowstone Interagency Grizzly Bear Study. He has written and published a number of papers including* Habitat Criteria for Grizzly Bear Management, Food Habitats of Free-Ranging Grizzly Bears in Yellowstone, *and* Guidelines for Management Involving Grizzly Bears in the Greater Yellowstone Area, *and he participated in the preparation of the Grizzly Bear Recovery Plan.*





Elk of Yellowstone: Biology and Ecology
June 11-12
$65 (Member's fee $55)

Elk are the most abundant herbivore in the Yellowstone system and, as such, exert a major influence on the environment and its other inhabitants. Emphasis will be placed on population dynamics, feeding ecology, migratory patterns, mortality factors, interaction with other herbivores, special management concerns, and current research. The instructor recently completed 4 months of intensive field observations for a behavioral comparison of the Yellowstone elk populations at Lamar, Mammoth, and Madison-Firehole.

***Ernest Ables**, Ph.D., is Professor of Wildlife Ecology at the University of Idaho. He has spent the past 21 years conducting research, directing graduate students, and teaching. His special interest in large mammal ecology and the ecological aspects of animal behavior have led him to study species in East Africa, Wisconson, Texas, Idaho and Yellowstone.*

Large Mammals of Yellowstone
June 14-18
$195 (Member's fee $185)
Credit available (U or G, 1 semester hour; U of ID)

The principles of animal behavior as they relate to the ungulates of the Yellowstone ecosystem will be investigated in this course. Elk, bison, bighorn sheep, moose, mule deer, and pronghorn will be observed. Emphasis will be placed on observing and recording behavior accurately, interpreting it properly, and analyzing its importance in ecology and management.

***Ernest Ables**, see write-up under "Elk of Yellowstone."*

Geology of the Yellowstone Country
June 14-18
$195 (Member's fee $185)
Credit available (U or G, 2 quarter hours; U of MT)

This course, conducted in the natural field laboratory of Yellowstone Park, will concentrate on the geological evolution of the area. Topics to be covered include 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 an associate professor of geology at the University of Wyoming. He has taught field courses in Yellowstone and Glacier National Parks and served as co-instructor in a National Science Foundation course for science teachers. His research interests are crustal evolution and structure which he has studied in Europe, Canada, the northwest Pacific Ocean, and the Rockies.*



In Yellowstone, the resource is not 20,000 elk, or a million lodgepole pines, or a grizzly bear. The resource is wildness. The interplay of all the parts of the wilderness — weather, animals, plants, earthquakes — acting upon each other to create the wild setting, creates a state of existence, a wildness, that is the product and the resource for which Yellowstone is being preserved.

— Don Despain
NPS Plant Ecologist

Indians of the Yellowstone
June 18-19
$65 (Member's fee $55)

This class will offer an Indian perspective on the Yellowstone area. Topics will include tribal migrations, trails, treaties, traditional roles of men and women, interrelationships with whites, and the interest of Indians in the park itself. Also addressed will be the role of family, folklore and religion concerning the natural environment of Yellowstone.

***Jeanne M. Eder** was born on the Fort Peck Indian Reservation in Montana, is an enrolled member of the Sioux tribe, and is assistant professor of Native American studies at Eastern Montana College. She has completed work on the use of the Star Quilt among Sioux and Assiniboine women and produced a one-hour monologue on a traditional Hidatsa woman named Waheenee, Buffalo Bird Woman.*

Yellowstone's Birds of Prey
June 20-22
$95 (Member's fee $85)
Credit available (U, 1 quarter 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 ecological communities, predator-prey relationships, breeding strategies, and habitat influences. Conservation measures and management problems unique to this group of birds will also be examined during the course. A special boat trip to Frank Island will be made to see nesting ospreys and bald eagles.



***John W. Martin**, is currently a district realty specialist acquiring wetlands for the National Wildlife Refuge system in Montana. His research leading to an M.S. in Wildlife and Range Resources was based on Northern Harrier habitat utilization.*

Yellowstone: A Microcosm of Western Exploration
June 20-24
$195 (Member's fee $185)
Credit available (U or G, 2 quarter hours; U of MT)

The opening of the American West began with Lewis and Clark and the fur traders and ended in the 1890s with the work of scientific agencies such as the Geological Survey. Combining illustrated lectures with field trips, the instructors will examine the broad sweep of western discovery and exploration within the context of the Yellowstone region, which will serve as a focal point and study area. Featured will be the earliest maps of the region, including those drawn by Indians and trappers, as well as those produced by later Army and scientific explorers. Enrollees will study the work of John C. Fremont, Gouvernor K. Warren, Ferdinand Hayden, and other explorers through their original reports and maps and the topography through which they traversed.

***Herman J. Viola** Ph.D., is director of Quincentenary Programs at the Smithsonian's Museum of Natural History and author of numerous books on Indians and the West including* Exploring the West (1987). *He also served as director of the National Anthropological Archives for 15 years. **Ralph E. Ehrenberg** is deputy director of the Geography and Map Division of the Library of Congress and author of* Mapping America *and* Scholars' Guide to Washington, D.C. for Cartography and Remote Sensing Imagery. *He is also a primary contributor to* Mapping the Great Plains: Essays in the History of Cartography.

Bears: Folklore and Biology
June 24-26
$115 (Member's fee $105)
Credit available (U, 1 quarter 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, coauthored 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.*

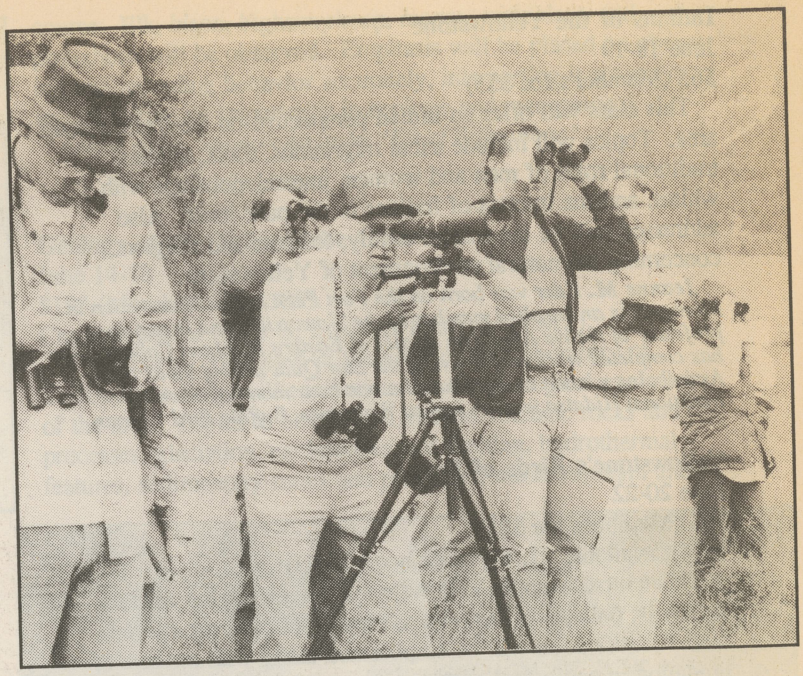


Bears class photographing newborn elk calf in foreground.

Birding Yellowstone
June 25-26
$65 (Member's fee $55) Limit: 10

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 more than 50 species including 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 p.m. on Friday, June 24 with a session on birding in Yellowstone.

***Richard F. 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.*



Women and Wilderness
June 27-28 Session I: An Introduction
June 29-30 Session II: Overnight Backpacking Trip
$65 for session I (Member's fee $55)
$120 for both sessions (Member's fee $105)

The first session is for women of all backgrounds, including those with little or no previous outdoor experience, and will provide an introduction to the basic practical skills for wilderness travel and camping. Moderate day hikes to experiment with equipment will incorporate information about the flora and fauna of the Yellowstone ecosystem, discussions of psychological and physical conditioning for wilderness travel, and an emphasis on low-impact camping.

The second session is an optional follow-up to the first for those who want more experience learning the essentials of backpacking: how to pack, food selection, checklists, hazards, and low impact techniques. The overnight trip will provide an opportunity for practical applications and to pursue discussion of topics related to women and wilderness. Participants must provide backpacking gear and food.



***Cynthia L. Andrus** is the Institute's field manager. She has a degree in outdoor/elementary education, has taught Institute courses for four summers, and is experienced in the outdoor-gear business and as a travel consultant. She has certifications in first-aid, CPR, campcraft, and nature interpretation.*

Birds of Yellowstone
June 27-July 1
$195 (Member's fee $185)
Credit available (G or U, 2 quarter hours; U of MT)

This introductory ornithology course will emphasize field identification and ecological relationships of birds in the Yellowstone ecosystem. Field surveys include a hike to the summit of Mt. Washburn, a breeding bird census on Blacktail Deer Plateau, observations of osprey nests in the Grand Canyon of the Yellowstone, a boat trip on Yellowstone Lake, and numerous opportunities to observe waterfowl on the pothole lakes of Lamar Valley.

An effort will be made to tailor instruction to the individual needs of the enrollees. Amateur birders, including novices, as well as teachers, undergraduate and graduate students will find this course extremely informative. Binoculars required.

***Dick Follett**, see write-up under "Birding Yellowstone."*

Lakes of Yellowstone by Canoe
June 27-July 1 (Lewis Lake, YNP)
$295 (Member's fee $285)
Credit available (U or G, 1 semester; Ricks College/BYU)

This five-day canoe trip across Lewis Lake and into magnificent Shoshone Lake 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. *Fee includes all canoeing equipment, group camping gear, and food.*

***Kari Black** has 10 years experience leading wilderness trips in Yellowstone. She has a masters in recreation, is a Red Cross Canoeing instructor, teaches recreation education at Ricks College, and is an experienced llama packer.*

Yellowstone is the best of all things that parks represent. We must honor that heritage.

Environmental education is concerned with forestalling the apparently inevitable process of alienation from the earth.

— George Robinson
Chief of Interpretation, YNP

Jedediah Smith Wilderness Horsepacking Seminar
June 30-July 1 Part I: "Around the Corrals" (Fox Creek, ID)
$80 (Member's fee $75)
July 2-4 Part II: "Practicum" A 3-Day Wilderness Ride
$200 Horse furnished. ($125 if you bring your own horse.)
(Member's fee $190/$115)

This course has been designed for people who have access to riding horses and/or pack animals and want to learn more about how to use them for wilderness trips. (Rental horses and tack are available for those who do not have their own.)

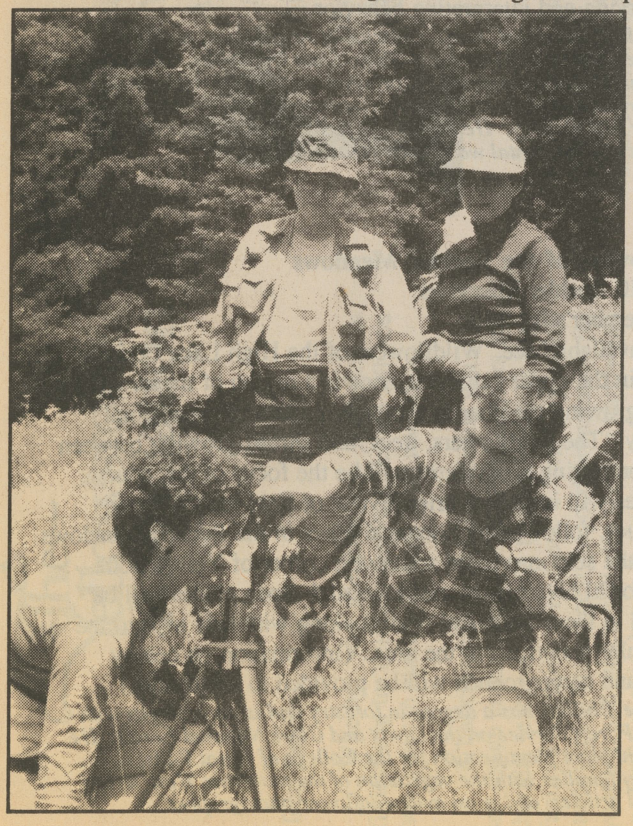
Part I will be spent "around the corrals" at the instructor's Fox Creek Pack Station west of the Teton Range near Driggs, Idaho. With emphasis on environmental concerns and low-impact techniques, enrollees will study all aspects of horsepacking: equipment, knots, ties, splices, selecting a pack string, hobbling and picketing, weighing and balancing the load, trip planning, and more.

For those who want to follow up with a practical application, Part II will be a trip (meals included) into the Jedediah Smith Wilderness on the west slope of the Tetons to reinforce and build on the topics studied in Part I.

***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.*

Learning Outdoor Photography
July 2-5
$155 (Member's fee $145)

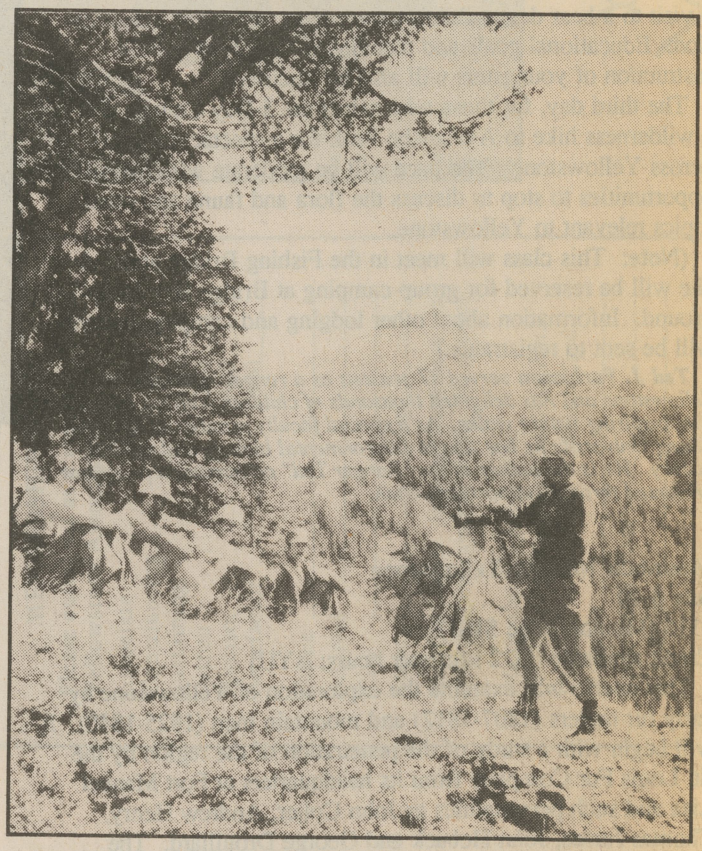
This field course is geared to those who want to develop their skills in outdoor photography. No previous photography experience is necessary. The course will provide instruction on all aspects of the use of the camera, proper exposure, composition, and use of tripods and wide angle, telephoto, and close-up lenses. Special emphasis will be given to seeing and interpreting a variety of Yellowstone subjects including wildflowers, water scenes, landscapes and wildlife.



***Pete Houdeshel's** photographic prints have been featured in galleries in over 25 cities across the nation and his clients include Hallmark cards, Marriott Hotels,* Aloha Magazine, *and Hyatt Regency Hotels. He worked for ten years for* New Worlds Magazine *and has a special interest in discovering how to present scenes with imagination and clarity. He flies jets for Delta Airlines when not out with a camera.*

Backcountry Photography
July 5-9 Buffalo Horn Lakes
August 8-12 Absaroka Range (Pilot Creek)
$295 (Member's fee $285)

Each of these courses will cover all of the subject matter in "Wildlife Photography" (July 12-15) but will take place in backcountry settings. The group will spend most of its time in



remote locations shooting infrequently viewed scenes. Outings will involve moderate hiking with light packs. Group equipment, food, and other heavy items will be moved by camp outfitters.

For the July trip, camp gear will be taken by a horsepacker to a wilderness campsite near the northwest corner of the park. Participants will accompany the instructor on a 6-mile hike to the site. Hikes are in mountain country at 6500-8500 feet.

The August 8-12 trip will be similar, but the site will be on Pilot Creek near the northeast park boundary. The hike to the campsite will be about 7 miles.

Each person must provide sleeping bag, pad, and pack. *Fee includes group equipment and food.*

***Tom McBride** is recognized throughout the West as a photographer and multi-media producer. He has been commissioned by the Library of Congress for still photography; by United Artists for cinematography; and by Stephen Cross for films released by the British Broadcasting Corp. His photographs have been featured in numerous magazines and he was judged Photographer of the Year by the Montana Professional Photographers Association.*

Interpreting Yellowstone with "Ranger Ted"
July 7-8 (optional day on 9th) Fishing Bridge
August 11-12 (optional day on 13th) Fishing Bridge
2-Day Course $65 for one adult and one child plus $20 per additional family member (Member's fee $60 for adult and child plus $15 per extra family member)
3-Day Course $85 for adult and child plus $25 per extra family member (Member's fee $80 plus $20 per extra family member)
Credit available (G, 1 or 2 semester hours; BYU)

Participants will be introduced to the wonders and dilemmas of Yellowstone by a retired ranger-naturalist. His series of programs and nature walks will encompass themes such as park history, environmental issues, personal reminiscences, kinship and interdependence of life forms, predator-prey relationships, and wilderness ecosystems. Activities will include short hikes, a visit to a bear den, wildlife observation, and plant identification. Educational goals and techniques for effective field instruction of youngsters will also be discussed.

The third day, for those who select the 3-Day Course, will be a wilderness hike to Avalanche Peak for a spectacular view across Yellowstone. The pace will be moderate with plenty of opportunities to stop to discuss the flora and fauna and other topics relevant to Yellowstone.

(Note: This class will meet in the Fishing Bridge area. A site will be reserved for group camping at Bridge Bay campground. Information about other lodging and camping options will be sent to registrants.)

***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.*

Mountain Men in Yellowstone
July 8-10
$115 (Member's fee $105)
Credit available (G, 2 semester hours; BYU)

This course will examine the exploration of Yellowstone by early fur traders (1807-1812) and mountain men (1825-1840). It will begin with a study of the penetration of the region by the St. Louis Fur Company from its headquarters at Fort Manuel Lisa and such personalities as John Colter, Andrew Henry, Thomas James, John Hoback and George Drouillard. The second era (1825-1840) will focus on the Ashley men who rediscovered South Pass, founded the Rendezvous system in the North and Central Rockies and became the legendary mountain men such as Jim Bridger, Jedediah Smith, Joe Meek, Osborne Russell, William Sublette and Warren Ferris. Using maps and primary source materials taken from journals and diaries, the class will follow paths traveled by the mountain men throughout the park and study the observations recorded by the fur men. (Fee includes $10 in class materials; handouts and copies of historic maps and source documents.)

***Fred R. Gowans**, Ph. D., is director of Native American Studies at Brigham Young University. He has been a consultant for historical films on mountain men and is the author of* Rocky Mountain Rendezvous *and* Mountain Man and Grizzly.

According to A.L. Haines, author of **The Yellowstone Story, Volumes One & Two**, the name "Yellowstone" is derived from a Minnetaree Indian word, Mi-tsi-a-da-zi, which translated as "Rock Yellow River."

Small Mammals of Yellowstone
July 8-11
$145 (Member's fee $135)
Credit available (U or G, 1 semester hour; ISU)

This course will emphasize identification, ecological role and factors affecting the distribution and abundance of small mammals in the Yellowstone ecosystem. Predators of small



mammals, their predation techniques and life histories will also be studied. Field work will include identification of small mammals and their "sign" as well as live trapping and census techniques. Small mammal and predator behavior will be observed and studied systematically with emphasis on methods of observing and interpreting behavior.

***Donald P. Streubel**, holds a Doctor of Arts degree, and is an associate professor of biology at Idaho State University. He has taught courses in zoology, mammalogy, ornithology, wildlife management and science education. His research interests include ground squirrel behavior and ecology. He has taught for the Audubon Society and conducts environmental workshops for teachers.*

Wildflowers of the Bechler Meadows
July 9-10 Bechler Meadows
$65 (Member's fee $55)
Credit available, see "Wildflowers of the High Lake Country"

Within the upper subalpine zone is a region of meadows and forests growing together in a mosaic pattern of great floral diversity. The wildflowers, trees, and shrubs growing between these contrasting ecosystems will be the focus of this course. Activities will include a brief review of field identification techniques, followed by botanical hikes in the Bechler Meadows area of the seldom-visited southwest corner of Yellowstone. The colorful blue camas meadows and aspen glades will be featured in these botanical studies along with side trips to the spectacular waterfalls in the area. (Information on nearby motels and campgrounds will be provided to registrants.)

***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.*

The Yellowstone Association

Dear Reader,

Whether you are planning your first or fiftieth trip to Yellowstone Park, let me tell you how you can make your visit more rewarding.

A basic knowledge of the animals you will see and an understanding of the Park's geysers and thermal features will add tremendously to your family's vacation. I've put a "star" by a few items which we suggest as good preparation for your trip and which will also serve as handy and inexpensive guidebooks during your stay.

These books, maps and videos are offered by the non-profit Yellowstone Association to help you learn about and appreciate the Park – its unique history, bountiful wildlife and amazing geology.

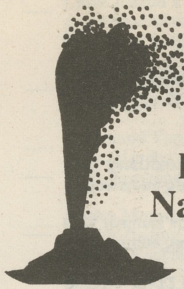
While here in Yellowstone, be sure to visit our sales areas in the Park's Visitor Centers. There you will find friendly service along with follow-up books for your area of special interest. And remember, you've got our promise of a refund if you are dissatisfied with your purchase.

Have a great trip,

Pat Cole

Pat Cole, Business Manager
Yellowstone Association

P.S. Remember, too, that proceeds from your purchase will be used to fund scientific, historic and educational programs here in Yellowstone which will enrich the visits of others for years to come!



Your purchase from the Yellowstone Association helps support educational, historical, and scientific programs in Yellowstone National Park.

THANK YOU

Memberships start at $25.00 for the entire family. Members receive a 15% discount on books, reduced prices on field courses in Yellowstone, newsletters and other benefits while supporting projects in Yellowstone National Park. Contributions are tax-deductible.

MEMBERSHIP FORM

Please enroll me as a member of The Yellowstone Association.

Associate	$ 25
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Sustaining	100
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Charge to [ ] Visa [ ] MasterCard

Number _____

Expiration date _____

Signature _____

Books, Maps and Pamphlets



ABOUT

Yellowstone National Park

GENERAL

Guide/Picture Books

* **National Parkways**, Yandell, large color pages with maps. Our best-selling photographic and comprehensive guide to the Park.
__ **Yellowstone**, 80 pages.....$4.95
__ **Grand Teton**, 68 pages.....$4.95

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

Explorer's Guides, Schreier, narrative on major park areas. Full color.
__ **Yellowstone**, 52 pages.....$4.50
__ **Grand Teton**, 48 pages.....$4.50

__ **Yellowstone National Park: Land of Fire and Falling Water**, McNulty, 71 pages. Gorgeous full color photographs, large format. Devoted to the timeless beauty of Yellowstone National Park. Photos by O'Hara...$19.95

__ **Yellowstone**, Hirschmann, large format, color photographs, text covering major Park features and wildlife, 88 pages.....$9.95

The Story behind the Scenery, Crandall, 48 color pages, photographs of geologic features and wildlife with informative text.
__ **Yellowstone**.....$4.50
__ **Grand Teton**.....$4.50

Montana Geographic Series, In-depth information about Montana subjects. Beautiful color photographs, related maps and text.
__ **Yellowstone River**, Schneider, 104 pages.....$13.95
__ **Continental Divide**, Cunningham, 112 pages.....$13.95
__ **Beartooth Country**, Anderson, 112 pages.....$13.95
__ **Greater Yellowstone**, Reese, 104 pages.....$13.95

__ **Yellowstone Is...**, Logan, 94 pages. Unique photographic journey through the Park, with accompanying verse.....$9.95

__ **Ribbons of Water**, Barber, 64 pages. Sparkling color photographs of Yellowstone's major waterfalls and cascades with informative text.
Sale price.....$1.95

__ **National Parks of the West**, Sunset, full color pictorial interpretation of the West's national parks, the nation's finest scenery, 255 pages.....$10.95

__ **National Parks of the Rocky Mountains**, Dannen, 120 pages, Rocky Mountain, Grand Teton, Yellowstone, Glacier/Waterton Lakes. A beautifully illustrated, large hardcover book with text and maps.....$14.95

__ **The Bicyclist's Guide to Yellowstone National Park**, Colling, 34-page guide for bicyclists of all abilities. Information on accommodations, attractions, adjacent areas, historical anecdotes, maps, and more.....$3.95

__ **Yellowstone: High Country Treasure**, Landis and Johnson, VHS, 78 min. An excellent introduction to the Park ranging from rare wildlife footage to mesmerizing sequences on mudpots.....$34.95

Foreign Language

__ **Foreign Language Guide to Yellowstone National Park**, 24-page guide in English, French, German, and Spanish. Color pictures and text.....$2.50

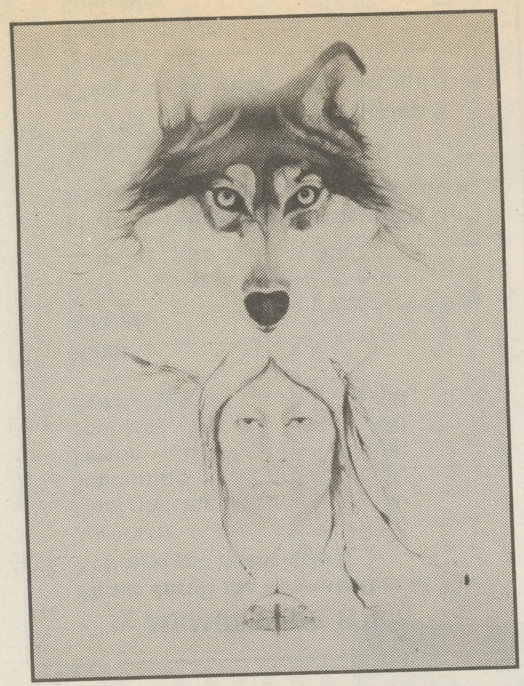
__ **National Parks of the Rocky Mountains**, Dannen, 151 pages, Rocky Mountain, Grand Teton, Yellowstone, Glacier/Waterton Lakes. Illustrated, large hardcover book with text and maps written in German.....$29.95

__ **U.S. National Parks**, Hohermut and Runge, 301 pages. Guidebook for the German visitor with information on trip planning, richly illustrated in color and black and white. Covers 41 National Parks and 45 National Monuments.....$25.95

Hiking and Camping

__ **Wilderness Survival**, Shank, 208-page basic book on survival for all who $10.95

POSTERS AND PRINTS



__ **We Are All One Family**, Buchfink, striking images of gray wolf, American Indian and dragonfly symbolizing the circle of life and the link between lifeforms. On muted pastel background. 32.5 inches x 22.25 inches
Poster.....$15.00
Signed, limited edition print.....$65.00
Postage and handling.....$5.00

__ **Western Wildlife Portfolio**, Jokerst, twelve 9x12 black and white wildlife prints, major Park mammals, descriptive text.....$4.95

__ **Murie Prints**, Claus J. Murie, a naturalist's portfolio of eight field sketches, 9x12 inches, various plants and animals.....$4.95

__ **Yellowstone Sketches**, Dunmire, twelve 9x12 black and white sketches of Park features and landscapes, descriptive text.....$4.95

__ **Yellowstone Sport Fishes**, Simon, thirteen 8x10 in. watercolor fish prints with descriptive text, companion to **Freshwater Wilderness**.....$7.95



HISTORY

The Yellowstone Association

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

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___ **Day Hiking,** Carter, complete Park trail descriptions, including history, geology, plant and wildlife facts. 4x6 in., 76 pages.....$2.95

___ **Yellowstone Trails: A Hiking Guide,** Marshall, 120-page backcountry guide covering over 2 million acres and over 1000 miles of trails.....$3.95

___ **Lakes of Yellowstone,** Pierce, 198 pages. Invaluable guide to fishing and exploring 49 Yellowstone lakes including locations, access, elevations, fish types, thermal features, etc.....$9.95

Fish and Fishing

___ **Freshwater Wilderness: Yellowstone Fishes and their World,** Varley and Schullery, color illustrations, 132 pages. A beautiful award-winning publication designed for anglers and non-anglers alike.....$12.95

___ **Flyfishing the High Country,** Gierach. Designed to show how to find the best waters and how to fish them. 108 pages.....$7.95

___ **Yellowstone Sport Fishes,** water and tear resistant pocket guide to fish identification. 11x12 in. (3x5 1/2 in. folded). Full color illustrations with Park fishing map and regulations.....$0.95

___ **Lakes of Yellowstone,** Pierce, 198 pages. Invaluable guide to fishing and exploring 49 Yellowstone lakes including locations, access, elevations, fish types, thermal features, etc.....$9.95

Photography

___ **The Nature Photographer's Complete Guide to Professional Field Techniques,** Shaw, 144 pages, color photographs.....$18.95

Art

___ **Thomas Moran: Watercolors of the American West,** Clark, 180 page chronicle of Moran's western journey with reproductions of 60 of his watercolors, 10 in full color. Hardcover.....$27.50

___ **The Bison in Art: A Geographic Chronicle of the American Bison,** published by Amon Carter Museum of Western Art. 142 pages of beautiful reproductions of paintings and drawings with text.....$14.50

Winter Subjects

___ **Yellowstone Ski Tours,** Barber, 80 pages. Information concerning half-day and one-day ski tours throughout the Park.....$3.95

___ **Ski Touring in Northern Yellowstone Park,** Barber, 24-page guide to half-day and one-day ski tours in the Mammoth/Tower/Lamar areas. Information on waxing, winter dangers, animal safety.....$1.25

___ **Yellowstone in Three Seasons,** Fuller and Schmidt, 48 pages. Outstanding photography of Winter, Fall, and Spring scenes with text.....$6.95

___ **Yellowstone in Winter,** Video, VHS, Bayer, 60 min. A fascinating film about life in Yellowstone during the frigid months.....$29.95

___ **Four Season Road,** Schullery, 36-page guidebook with photos and map of the Park road from Gardiner to Cooke City (normally the only Park road open for automobile travel in the winter).....$1.25

FIELD GUIDES

Peterson Field Guide Series, famous identification system to:

___ **Animal Tracks,** Murie, 378 pages.....$12.95
___ **Mammals,** Burt, Grossenheider, 290 pages.....$12.95
___ **Rocky Mountain Wildflowers,** Craighead, 280 pages.....$12.95
___ **Western Birds,** Peterson, 312 pages.....$12.95
___ **Hawks,** Clark, Wheeler, 240 pages.....$13.95
___ **Insects,** Borror, White, 404 pages.....$12.95

___ **Field Guide to Mammal Tracking,** Halfpenny, 161 pages. This book does more than just identify specific tracks. It allows the reader to understand the actions and behaviors of the mammals recorded in their tracks.....$11.95

___ **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.....$6.95
Hardcover.....$15.95

___ **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.....$7.95
Hardcover.....$17.95

___ **Chief Joseph's People and their Wars,** Josephy, Jr., 21 pages. A succinct description of the battles and desperate flight through Yellowstone of the Nez Perce Indians in 1877.....$0.95

___ **The Bannock Indian Trail,** Haines, 8-page booklet about the Bannock Indian trailway system through the Park.....$0.25

___ **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.....$1.00

___ **Rocky Mountain Rendezvous,** Gowans, 239 pages. A classic account of the fur-trading rendezvous era that took place from 1825-1840 in the Central Rockies.....$9.95

___ **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.....$2.25

___ **Journal of a Trapper,** Haines, ed., 190-page illustrated story of Osborne Russell and his travels while a trapper in the Rockies.....$5.95

___ **Discovery of Yellowstone,** Langford, Journal of the Washburn Expedition to the Yellowstone and Firehole Rivers in 1870.....$5.50

___ **Yellowstone Stage Holdups,** Haynes, 30 pages, historical account of the 5 stage holdups during the period of military control of the Park, black and white photos.....$1.00

___ **Old Yellowstone Days,** Schullery, 250 pages, brings back the flavor of the "good ole days" of stagecoach travel in Yellowstone through the experiences and feelings of people who helped create the park.....$6.95

___ **Old Yellowstone Views,** Barber, 95 pages. Captivating narrative and numerous, often humorous, photos of the Park and the people who supervised, explored and visited from 1877 through 1936.....$8.95

___ **The Inn at Old Faithful,** Scofield and Schmidt, 24-page narrative with photographs of early activities, feats of architectural diversity, and numerous adjustments and alterations.....$3.00

___ **The Story of the Lake Hotel,** Dittl, Mallman, 32 pages. A lively history of the Park's oldest and most elegant hotel with photos.....$3.95

MAPS

* ___ **Yellowstone Trail Map,** outdoor, waterproof, illustrated topo map. Completely updated 1986 (1:168,500).....$5.95

___ **Teton Trail Map,** outdoor, waterproof, illustrated topo map. Completely updated 1986 (1:78,000).....$5.95

___ **Landsat: Yellowstone,** aerial photo by the National Aeronautics and Space Administration. (scene ID # 883302141304XO).....$2.75

___ **U.S.G.S. Topo Map,** 15 min. series, scale 1:62500. Each covers about one-twentieth of the park, so identify areas of interest when ordering.....$2.50

___ **Geologic Map of Montana and Yellowstone National Park,** Taylor and Ashley. 24x18 in., with additional maps of tectonics, Quaternary glaciation, and physiology.....$3.95

___ **Wyoming Geologic Highway Map,** 1986, Scale 1:1,000,000 with cross section, explanation, and satellite photo maps.....$4.25

Prices effective January 1988; subject to change. **All have paper covers except where noted.**

*Book dealers, libraries and schools are granted discounts on items published by this Association.

The Yellowstone Association for Natural Science, History & Education, Inc. is a non-profit, tax-exempt organization founded in 1933 to support educational, historical, and scientific programs in Yellowstone National Park.

PLANT LIFE

* ___ **Plants of Yellowstone and Grand Teton ,** Shaw, 160 pages of color photos and descriptions of park vegetation from trees to flowering plants.....$5.95

___ **Wildflowers of Yellowstone and Grand Teton,** Shaw, 56 pages with color photos and descriptive text.....$3.95

___ **High Color,** Waidhofer, 96 pages. Spectacular color photography of the wildflowers of the Rockies.....$19.95

___ **Edible and Poisonous Plants of the Western States,** Burt and Heyl. Handy study set in the form of a deck of cards. Color illustrations of 54 plants with text on each.....$5.95

GEOLOGY

___ **Born of Fire: The Volcanic Origins of Yellowstone National Park,** Cottrell. An easy-to-understand discussion of the incredible volcanic forces that made Yellowstone a land of geysers, hot springs, and mudpots. For readers of all ages.....$7.95

* ___ **Geologic Story of Yellowstone National Park,** Keefer, 92 pages, describes in layman's terms the events that shaped present-day land forms and thermal features.....$3.95

___ **Roadside Geology of the Yellowstone Country,** Fritz. Covers geologic formations along all roads in Yellowstone and all major roads leading to the North, East, and West entrances to the Park.....$8.95

___ **Roadside Geology of the Northern Rockies,** Alt and Hyndman, 280 pages. Covers four National Parks: Craters of the Moon, Glacier, Grand Teton, and Yellowstone.....$9.95

___ **Roadside Geology of Montana,** Alt and Hyndman, 426 pages. Provides new interpretations of the Rocky Mountains based on modern theories of plate tectonics. Includes detailed geologic maps.....$12.95

___ **Middle Rockies and Yellowstone,** Parsons, 233 pages. A series of self-guiding geologic field trips throughout Yellowstone and surrounding areas.....$14.95

___ **Pages of Stone,** Chronic, 168 pages. Written in non-technical language. Leads the traveler on a geologic tour through seven National Parks and nine National Monuments of the West.....$14.95

___ **The Night the Mountain Fell,** Christopherson, an account of the 1959 Montana /Yellowstone earthquake.....$4.95

___ **Field Guide to Yellowstone Geysers, Hot Springs and Fumeroles,** Schreier. 94-page complete pocket guide to the Park's thermal features, color photographs.....$9.95

* ___ **The Geysers of Yellowstone,** Bryan, 225 pages. A comprehensive guide to the largest geyser area on earth, includes map. Black and white.....$7.95

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

___ **Creation of a Teton Landscape,** Love and Reed, Jr., 120 pages. The geologic story of Grand Teton National Park.....$4.95

* *Suggested introductory books*

ANIMAL LIFE

Mammals

* ___ **Wildlife of Yellowstone and Grand Teton,** Harry and Dilley, revised by Shaw, 64 pages with color photos and descriptive text.....$3.50

* ___ **Large Mammals,** Craighead, handy 30-page booklet on how to identify and where to see the mammals of Yellowstone, color photos.....$1.75

___ **Heritage From The Wild,** Scott and Scott, 115 pages. Excellent color photos and descriptive text covering 56 familiar land and sea mammals of the Northwest, from the mighty elk to the adaptable opossum.....$13.95

___ **Field Guide to Mammal Tracking,** Halfpenny, 161 pages. This book does more than just identify specific tracks. It allows the reader to understand the actions and behaviors of the mammals recorded in their tracks.....$11.95

___ **Wildlife in Transition: Man and Nature on Yellowstone's Northern Range,** Despain, Houston, Meagher, Schullery, 142 pages. Exploration of the Park's management of the Northern Range including topics such as natural regulation, wildlife populations, impact on vegetation and soil, and related controversies.....$6.95

___ **Bison, Symbol of the American West,** Sample, 80 pages. Natural history and outstanding photography. Covers the Yellowstone and other western buffalo herds.....$7.95

___ **Looking at the Wolf,** Teton Science School publication, 12 pages. This brief and informative book is a concise introduction for readers of all ages to a legendary, and misunderstood, carnivore.....$2.95

___ **Twilight Hunters – Wolves, Coyotes, and Foxes.** Turbak, 70 pages. Outstanding color photos and narrative covering the habits, ranges and history of these efficient predators.....$14.95

___ **Of Wolves and Men,** Lopez, 309 pages. From biology to folklore, this book has become a standard on the topic of wolves.....$14.95

___ **In the Path of the Grizzly,** Carey, 76 pages. Fascinating photographic record of the grizzly combined with observations on bear behavior and lifestyle.....$11.95

___ **Bear Attacks,** Herrero, 287 pages. This study of bear reactions to human intrusion aims to make bear country safer for both bears and people. Hardcover.....$14.95

___ **The Grizzly Bear,** McNamee, 308 pages. A narrative about a female grizzly through which the natural history and extraordinary variety of grizzly behavior is revealed.....$8.95

___ **The Bears of Yellowstone,** Schullery, 276 pages, 60 illustrations. Myths and facts about Park bears, their natural history, and the evolution of bear management in the park. Paperback.....$9.95 Hardcover.....$25.00

___ **The Track of the Grizzly,** Frank C. Craighead, Jr., 261 pages. A field study of the grizzly bear in the Park's ecosystem from 1959-1972 which pioneered the use of animal radio tracking.....$11.95

___ **Mountain Man & Grizzly,** Gowans, 210 pages, An illustrated collection of early observations and stories about the great bear.....$9.95

___ **American Bears,** 193 pages, lively selections from the writings of Theodore Roosevelt, edited by Schullery.....$8.95

Birds

___ **Western Birds,** Peterson's classic field guide, 312 pages.....$12.95

* ___ **Birds of Yellowstone and Grand Teton,** Follett, descriptions and habits of 64 of the region's most common species, color photos, 73 pages.....$6.95

___ **Birds of Grand Teton National Park,** Raynes, the 60 featured species give a good cross section of birds common in the Jackson Hole area, full color, 90 pages.....$5.95

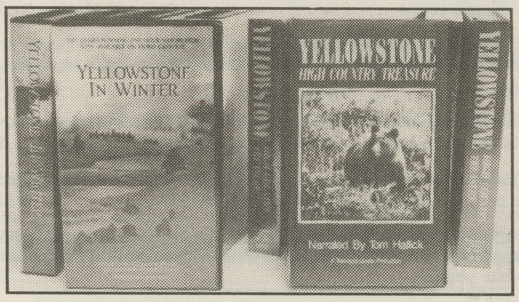
___ **Western Birds,** Audubon Handbook, Farrand. Covers every species west of the Rockies. 1,314 color photos; 168 drawings.....$13.50

___ **Birds of North America, A Guide to Field Identification,** Robins, Bruun, Zim, illustrated by Singer. Each bird is captured in full color with descriptive text on facing page, 360 pages.....$9.95

___ **Birds of Yellowstone – Checklist,** Zarki and Follett, 16 pages. Handy 5 1/2 x 8 1/2 in.listing. A must for birders in Yellowstone!.....$0.50

___ **The Trumpeter Swan,** Hansen, 76 pages. A presentation in photographs and words of the swan's life, behavior, habitat and sheer beauty.....$11.95

VIDEOS



___ **Yellowstone: High Country Treasure,** Landis and Johnson, VHS, 78 min. An excellent introduction to the Park ranging from rare wildlife footage to mesmerizing sequences on mudpots.....$34.95

___ **Yellowstone in Winter,** Bayer, 60 min. VHS or European PAL. A fascinating film about life in Yellowstone during the frigid months. ..$29.95

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.....$18.00

___ **Yellowstone and Teton Wit,** a discovery game about Yellowstone and Teton. Facts for the entire family, in the format of a deck of cards.....$4.95

* *Suggested introductory books*



RECOMMENDED FOR CHILDREN

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

___ **Park Ranger!** Hoofnagle and Dunmire, 32-page coloring book telling what park rangers do, with strong environmental message. $1.50

___ **Animal Friends of Yellowstone,** Hubbard, 32 large format pages. Handsomely illustrated stories on park wildlife for children.....$2.25

Zoo Book Series, this magnificent magazine format series includes many of the most beautiful and exciting animals on earth.

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___ **Eagles**.....$1.95
___ **Wolves**.....$1.95
___ **Bears**.....$1.95
___ **Deer**.....$1.95
___ **Cats**.....$1.95
___ **Endangered Species**.....$1.95

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

___ **Common Campground Critters of the Mountain West,** Pollock and Pollock, 20 pages. A handy children's guide to frequently seen campground mammals and birds.....$3.95

___ **The Last Bit Bear,** Robinson, 48-page fable about the adventure of the last bear of its kind in search of the key to survival. (ages 7-13).....$3.95

___ **Greta Bear Goes to Yellowstone National Park,** Rush, 103 pages, a fantasy tale. Greta Bear discovers the wilds of Yellowstone and the magic of living in harmony with nature. (ages 8-13).....$5.95

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

___ **Signs along the River,** Robertson, 64 pages. Through words and pictures this book tells the reader how to sense the presence of several common types of plants, mammals and birds, by hearing, touch, smell or sight.....$4.95

___ **Year at Elk Meadow,** Gilmore, 16 pages. Description of the life cycle of the elk. Beautiful drawings and text.....$3.95

___ **Eagles, Hawks and Falcons,** Malick and Hamerstrom, 10-page coloring book. 44 birds of prey are rendered in exquisite detail in black and white and color, making this an ideal book for artists of all ages.....$3.95

___ **Expedition Yellowstone: A Mountain Adventure,** Robinson, 190 pages. A fascinating fiction adventure book about early Yellowstone days. For children grades 4, 5 and 6. Paperback.....$7.95 Hardcover.....$17.50

Expedition Yellowstone was developed as part of a pioneering environmental program by the naturalist staff of Yellowstone. A Teacher's Workbook and related in-Park program are also available. Call or write for further information.

Close-up Photography in Yellowstone
July 11
$30 (Member's fee $25)

This workshop will emphasize the basics of close-up and macrophotography and will assume a working knowledge of photographic principles and equipment. Topics include ethics of nature photography; macro basics; film and equipment selection; depth of field; making the most of natural light; and techniques for using flash in the field and obtaining natural effects. Time will be allowed for a supervised field session. A suggested list of equipment will be sent to enrollees.

***Sandy Nykerk** is an award-winning freelance photographer and naturalist. She teaches photo workshops in Illinois and Wisconsin; leads photo tours in Yellowstone; teaches and leads tours for the Morton Arboretum; and serves on the Greater Yellowstone Coalition board.*

Alpine Wildflowers
July 12-13
$65 (Member's fee $55)
Credit available, see "Wildflowers of the High Lake Country"

Wildflowers growing in the alpine tundra above the tree line will be the focus of this course. Participants will make day trips to the high country of the Beartooth Plateau to study the beauty of flowers found only in circumpolar arctic environments and on the highest mountain tops below their arctic home. A variety of alpine ecosystems will be studied including the "krummholz" or windbattered, horizontal pygmy forest, the cushion plants of the boulder fellfields, the lush alpine meadows, and the flowers that spring up behind the receding snowbanks.

***Wayne Phillips**, see write-up under "Wildflowers of the Bechler Meadows."*

Wildlife Photography in Yellowstone
July 12-15
$155 (Member's fee $145)

With Yellowstone as the focus, this course will emphasize the practical applications of photography rather than technical theory and assumes at least moderate experience. It will cover widely varying climatic and temperature zones and will approach outdoor photography as art. Techniques, use of light, equipment, composition, form, and development of the creative eye will be discussed. There will be special emphasis on environmental sensitivity and the ethics of, and various approaches to, wildlife photography. Participants must provide their own camera, lenses, tripod, film and accessories and be familiar with the operation of their equipment.

***Tom McBride**, see write-up under "Backcountry Photography"*

Wildflowers of the High Lake Country
July 14-16 Beartooth Backcountry
$225 (Member's fee $215) Limit: 10
Credit available when taken in conjunction with "Wildflowers of the Bechler Meadows" or "Alpine Wildflowers." (U, 2 quarter hours; 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 level ground at an elevation of about 8000 ft.



Wildflowers along the edges of the many lakes, streams, snowbanks and glaciers will be featured, from the alpine tundra to the open subalpine forest.

A camp tender will prepare meals. Enrollees must bring sleeping bag, pad, and pack. Fee includes group equipment and food.

***Wayne Phillips**, see write-up under "Wildflowers of the Bechler Meadows."*

Wolves of Yellowstone: The Missing Link
July 16-17
$65 (Member's fee $55)

This course will focus on the wolf as the major missing link in the Yellowstone ecosystem. The ecological role of the wolf as a major predator of large ungulates will be examined as will the historical and present status of wolves and their habitat in



the park. The course will also explore the issues, options and strategies associated with restoration of wolves to Yellowstone.

***John Weaver** is national grizzly bear habitat coordinator for the U.S.D.A. Forest Service in Missoula, Montana. He holds graduate and undergraduate degrees in wildlife science and has published scientific papers on wolves including a major treatise on "The Wolves of Yellowstone." He is a member of the Northern Rocky Mountain Wolf Recovery Team.*

Fire, Ice and Fossil Forests
July 16-18
$105 (Member's fee $95)
Credit pending (U, 1 quarter 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 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 his-tory 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.*

Wolves of the Mind
July 18
$30 (Member's fee $25)

In addition to natural wolves there are symbolic wolves. Cultures transform physical reality into experienced reality. The word "wolf" throws a shadow over the human imagination that is bigger than life. It forms images and stirs emotions in people who have never seen a wolf. The purpose of this course is (1) to explore the wolf myths, folklore and images of Native and Euro-American cultures and (2) share the instructor's experience in play research with wolves.

***Fred Donaldson**, see write-up under"Ways of the Mountain Men."*

Three Days at the Buffalo Ranch (Ages 8-12)
July 19-21 First Session
July 23-25 Second Session
$105 per session (Member's fee $95)

This three-day stay at the Lamar Buffalo Ranch is especially for children. It provides an exciting time for youngsters to learn and explore in a national park and make new friends. Each day includes a hike to observe wildlife and learn about plants, ecology, and the park's history. Afternoons are devoted to supervised art projects such as making masks, books, murals, clay sculptures and t-shirts. Active days of fun and learning are concluded each evening with games, songs, and wildlife films. Fee includes meals and lodging. *Children must provide their own sleeping bags, canteens, and day packs.* (**Parent's Note:** Classes for adults have been scheduled to coincide with the children's courses to give parents a class option. See write up for "Exploring Greater Yellowstone," July 19-21 and "Geysers, Mudpots, and Hot Springs," July 23-25.)

***Cynthia Andrus**, see write-up under "Women and Wilderness."*
***Louise Bruce** has a degree in recreation management and is a year-round resident of Yellowstone Park. She has extensive experience in outdoor and environmental education through work with nature centers, schools, and camps and at Yellowstone and Grand Canyon Parks.*
***Fred Donaldson**, see write-up for "Ways of the Mountain Men."*
***Gillian Bowser** holds an M.S. in zoology, has worked in Yellowstone on elk research projects during the last two years, and is First Responder certified.*

Exploring the Yellowstone Ecosystem
July 19-21 Mammoth
$75 (Member's fee $65)

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: what they are, why they are where they are, and the threats they face. An abiding interest in nature, not scientific training, is the only requirement. The class will meet from 1:00 p.m. July 19 through early afternoon July 21 and will headquarter at Mammoth Hot Springs. Contact the Institute office for lodging and camping information. (**Note:** See schedule tie-in with children's class, "Three Days at the Buffalo Ranch.")

***John Good**, see write-up under "Fire, Ice and Fossil Forests."*

Backcountry Llama Trekking
July 19-23 Bechler
$360 (Member's fee $350) Limit: 8

Participants in this course will have the opportunity to hike the backcountry of southwestern Yellowstone for five days using llamas to transport group gear and food. The instructor will discuss topics such as natural features, wildflower identification, minimal impact camping, and use of pack animals. The story of llamas as pre-historic inhabitants of the Yellowstone area will also be told.

Enrollees should be prepared to hike 4-7 miles per day at elevations of 7500 ft. to 8000 ft. with day packs of 5-15 lbs. Cost includes food and group camping gear. Each enrollee must bring a sleeping bag, canteen, and day pack and will be allowed 20 lbs. of personal gear for llama transport. This is a participatory rather than a catered trip.

***Kari Black**, see write-up under "Lakes of Yellowstone by Canoe."*

Wilderness Hiking and Camping in Grizzly Country
July 22-23
$65 (Member's fee $55)

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 in the national parks followed by a discussion of techniques for the prevention of such confrontations including suggestions for



dealing with grizzly encounters. The remainder of the course will cover camping techniques and further discussion about the current status of the great bear and its uncertain future. *Participants must provide their own backpacking gear and food.*

***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 Department of Fish, Wildlife and Parks'* Montana Outdoors *for nine years. He is currently a publisher with Falcon Press of Billings and Helena, Montana.*

Three Days at the Buffalo Ranch: Ages 8-12
July 23-25 (see description on page 16)

Geysers, Mudpots, and Hot Springs
July 23-25 Old Faithful
$75 (Member's fee $65)
Credit pending (U, 1 quarter hour; MSU)

The rare, spectacular geothermal features of Yellowstone will be explored in this course. After a short introduction, visits to mudpots, hot springs, and geysers will begin with hikes timed to see several of the less common geysers erupt. The class will meet at the Grand Canyon at noon on Saturday and then proceed to the Old Faithful area for a full day of geyser gazing on Sunday. Norris Geyser Basin and other sites will be visited on Monday, and class will end in early afternoon. No background in geology is required. (This class will headquarter at Old Faithful. Early lodging reservations are essential. Contact the Institute office for information on lodging and camping.) (**Note:** See schedule tie-in with children's class, "Three Days at the Buffalo Ranch.")

***Duncan Foley**, see write-up under "Hydrothermal Systems and the Yellowstone Caldera."*

Hydrothermal Systems & the Yellowstone Caldera
Parts I & II
July 26-29 Session I: The Yellowstone Caldera
July 31-August 3 Session II: The Hydrothermal Systems
$165 per session (Member's fee $155 per session)
Credit available (U or G, 2 quarter hrs. per session; 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. Part I will emphasize the geology of the caldera. Lectures will include discussions of volcanic rocks, caldera cycles, and development of geologic structures that influence the location of hydrothermal systems. Field trips will visit the many types of rocks produced during several stages of the Yellowstone caldera. Part II will emphasize the hydrothermal systems. Lectures will cover the geology of geothermal features and the chemistry of thermal waters. Field trips will visit both famous areas and unusual features that are off the beaten path.

Sessions I and II are independent but will be well coordinated. They may be taken in sequence or individually. 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., teaches geology at Pacific Lutheran University in Tacoma, Washington. He has worked throughout the western United States in volcanoes and geothermal systems and has taught Institute classes for the past eight years.*

***Roy Mink**, Ph.D., is a senior hydrologist with Morrison-Knudsen Engineers in Idaho. He has extensive experience in geothermal systems, was formerly chief of the geothermal energy branch of the U.S. Department of Energy at Idaho Falls, and has worked on national geothermal programs with the DOE.*

***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 Labora-tory and many universities. He has also worked on national geothermal programs for the DOE and has been a seasonal naturalist in Yellowstone.*





Wilderness Horsepacking
July 26-30 Exploring the Old Faithful-Bechler Trail
August 3-7 The Nez Perce Trail — Yellowstone
August 9-11 Nez Perce Trail — Clark's Fork
August 13-17 Yellowstone Indian Trails
August 18-22 The Washburn Expedition Trail
$375 per 5-day session (Member's fee $365)
$225 for 3-day, Aug. 9-11, trip (Member's fee $215)
Limit: 12 per class

Along with its historical theme, each course will stress low-impact use of pack stock in the backcountry. In addition to instruction in the use and care of pack and riding horses, participants will also learn how to camp and travel in the wilderness without damaging the fragile country.

The July 26-30 trip takes place in the seldom-traveled Bechler Canyon country between Old Faithful and the southwest corner of the park which features spectacular meadows and scenic canyon waterfalls.

The Aug. 3-7 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 route through one of Yellowstone's most remote areas is unknown. It was wild and rugged then and remains so today.

The August 9-11 trip will take 3 days to study an additional segment of the 1877 Nez Perce Trail and will explore the area the Indians headed into when they left Yellowstone moving northward to Crow country as they fled toward Canada.

The August 13-17 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.

The Aug. 18-22 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.

Each session is designed to give enrollees a chance to learn about a number of topics as well as have a wilderness experience on horseback. Courses are participatory rather than catered trips. *Fee includes horses, special equipment and food. Participants must provide their own sleeping bags.*

***Richard Clark**, Ph.D., see write-up under "Jedediah Smith Wilderness Horsepacking."*

The Ways of the Mountain Men
July 27-29
$105 (Member's Fee $95)

Survival for the early trappers and mountain men of the Rocky Mountain West depended upon their skills as hunters, trappers, craftsmen, botanists, cooks, meteorologists, diplomats and psychologists. This course will introduce participants to the "Old Ways" of the mountain men. Demonstration, field work and discussion will be utilized to help participants develop an understanding and appreciation of the skills, crafts, tools and social psychology of these remarkable pioneers.

***Fred Donaldson** has a Ph.D. in geography and has taught a wide variety of courses on Native American studies, beading and tanning, tracking and stalking, and environmental education. He has authored articles on the mountain men and is a member of the Beartooth Mountain Men.*

Mammal Tracking: Interpreting Tracks, Scat, and Other Sign
July 30-August 2
$175 (Member's fee $165) Includes course materials and text.
Credit available (U, 1 quarter hour; U of MT)

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

Course content includes the role of natural history and ecology, keeping field notebooks, taxonomy, anatomy, terminology, measurements, track averaging, relative size, estimating track age, print identification, gait patterns, estimating speed, field techniques, finding clues, following trails, and teaching tracking. Slide lectures will provide access to Dr. Halfpenny's years of field experience, and laboratories will



introduce concepts of gaits and speed. Field sessions will aid in learning to trail and read stories in tracks. (The fee includes a copy of the instructor's book plus other course materials.)

***Jim Halfpenny**, Ph.D., is coordinator of the University of Colorado Long-Term Ecological Research Program and a Research Fellow of the Institute of Arctic and Alpine Research. He has taught for seventeen years in the greater Yellowstone ecosystem and is the author of* Mammal Tracking in North America. *Most recently he has returned from a study including tracking the endangered mammals of the Tibet-Qinghai Plateau of China.*

Hydrothermal Systems & the Yellowstone Caldera Session II
July 31-August 3 (see description page 17)

Family Days: Camping Rendezvous
August 3-4 Campground
$75 for one parent and one child plus $20 per additional family member (Member's fee $65 plus $15 per extra family member)
Limit: 7 families

Families in this class will rendezvous at an isolated mountain campsite with their tents, campers, or RVs. From the group encampment they will take day hikes into the scenic backcountry and be introduced to a sampler of Institute topics such as geology, meteorology, wildflowers, nature photography, animal behavior, and Yellowstone history. Around camp there will be discussions on campcraft, gear, outdoor skills, and wilderness ethics. Evenings will feature programs on astronomy and Indian sky mythology. Topics will be geared for a variety of age groups. Class begins the evening of August 2 and runs through the afternoon of August 4.

***Bob Hoyle**, see write-up under "Star Trails West."*

***Blair Hoyle** has served as a seasonal ranger in both the Interpretive and Resource Management Divisions of Grand Teton National Park since 1975 and has a degree in medical technology.*

***Cyndy Andrus**, see write-up under "Women and Wilderness."*

Fire Ecology
August 3-5
$95 (Member's fee $85)

Fire has always been a major force in Yellowstone. Ancient evidence is preserved in lake bottoms, and historical evidence can still be found in the trees themselves. This course will examine the interplay of fire and its environment, factors influencing ignition and spread, response of biotic communities to fire, and the role of fire in determining the characteristics of plant communities. The instructor will lead field trips to gather data at both old and recent burn areas and to an ongoing fire if the opportunity arises.

***Don Despain**, Ph.D., has worked in Yellowstone studying the park ecosystem since 1971. He helped develop and apply the park's natural fire program. He is a plant ecologist and the author of* Flora of Yellowstone National Park, *a field identification key.*

Wilderness Horsepacking: the Nez Perce Trail
August 3-7 (see description page 18)

Star Trails West
August 5-7
$85 (Member's fee $75)

This class will study early explorations of the West and the use of astronomy for navigation and map making. Emphasis will be given also to Native American astronomy and sky mythology and to the history of early American astronomy. Discussion will be augmented by three nights of observation of the clear, dark skies of the Lamar Valley, from a location on the old Bannock Indian trail through Yellowstone. The class begins the evening of August 5 and concludes about midnight on the 7th.

***Robert C. Hoyle** is director of the Taylor Planetarium at the Museum of the Rockies. He has taught astronomy at Lenoir Rhyne College and Catawba College and as a visiting lecturer at the University of North Carolina. He has trained Park Service personnel in sky interpretation and is the author of "Watchers of the Sky," a Native American sky mythology program produced by Morehead Planetarium.*

Alpine Ecology
August 5-8 Cooke City and Beartooths
$160 (Member's fee $150)
Credit pending (U, 1 quarter hour; U of MT)

The Beartooths are still locked in glaciation as they form the northeast bastions of the Yellowstone Ecosystem. From the Beartooth section of U.S. 212, called by Charles Kuralt, "...the most beautiful roadway in America," there will be day trips to this incredible region above tree line. Beginning with the krummholz, the class will 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, the ecosystem function over differing time and space scales will be stressed. The interference of modern civilization will also be analyzed. Tuition includes $10 in course materials. (**Note**: This course will headquarter in Cooke City. Enrollees will be sent a list of nearby motels and campgrounds.)

***James Halfpenny**, see write-up under "Mammal Tracking: Interpreting Tracks, Scat and Other Sign."*

Prehistory of Greater Yellowstone
August 6-7
$65 (Member's fee $55)

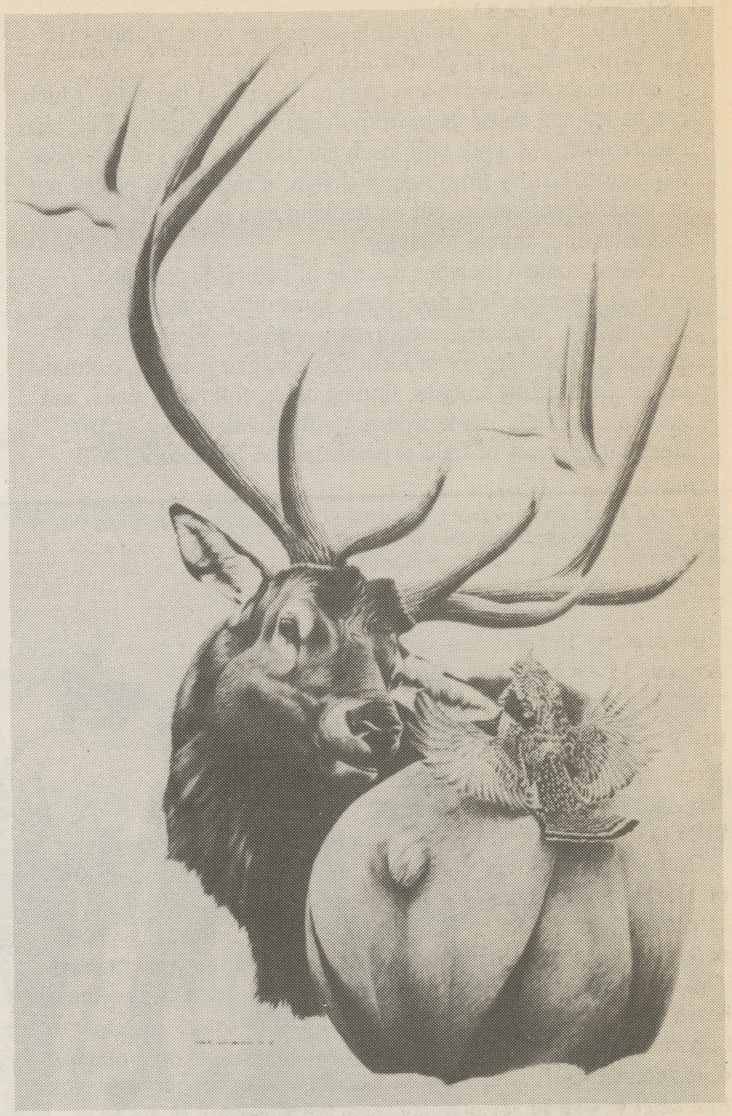
Field trips and lectures in this course will focus on the prehistory and ecology of the greater Yellowstone area. Included will be discussions of current paleontological research, archaeological evidence of early man in the Yellowstone region, and a summary of local archaeological history to date.

***Elizabeth A. Hadly**, has a degree in anthropology and since 1982 has worked in Yellowstone for U.S. Fish & Wildlife or for the park's research office. For the last 3 years she has been involved in paleontological and archaeological research and is currently doing an analysis of a paleo site in northern Yellowstone.*

Man should not wander as a stranger on the silent land,
Nor under the wide sky move indifferent to the wind.
A tree,
A river,
A bird should be as extensions of himself.
Written in rocks and in the ways of wild things,
Spoken in parables of water,
Told in the gift of sunlight is the code of man's existence
And the design for his survival. . .
For the earth is home and the ways of nature are truth.

by Dave Dame, Chief of Interpretation and Visitor Services, NPS

Illustration courtesy of Dave Samuelson



Drum and Bugle Corps.

Nature Drawing and Illustration
August 8-10
$125 (Member's fee $115)

This course is designed for people who want to improve their ability to make sketches for natural history journals, produce wildlife illustrations, or lay in drawings for finished paintings. The class will include demonstrations, location work, and critiques. Topics to be covered include choice of materials, composition, and processes by which to begin an art work. Students may work in their medium of choice. The instructor will demonstrate in either pencil, watercolor, acrylic or oils.

***Dave Samuelson** was the winner of the 1988 Montana Waterfowl Stamp Competition. He is a graduate of the Kansas City Art Institute and has his M.F.A. from the University of Montana. His work has been featured in* Montana Outdoors, Bugle *and other publications.*

Backcountry Photography
August 8-12 **(see description page 9)**

Horsepacking: The Nez Perce on the Clark's Fork
Aug. 9-11 **(see description page 18)**

Yellowstone's Night Skies
August 9-12
$135 (Member's fee $125)

Participants will explore the wonders of the universe from the magnificent, unspoiled skies of Yellowstone during four days and three nights. The famous Perseid meteor shower will be at peak display during this time, under optimum, moonlessly dark conditions. Topics range from ancient and timeless observation techniques (such as keeping track of the planets, and predicting eclipses) to the mind-boggling concepts of the present (black holes, the slowing of time, where the universe ends). Special visual presentations, such as a 3-D movie filmed on Mars, and others taken in space by astronauts and by spacecraft arriving at various planets, supplement the indoor sessions and outdoor observing periods. The course is designed for people with no previous astronomy knowledge but will also be enjoyed by those with some training in the subject. Class begins on the evening of August 9.

***Bob Berman** is director of the Catskill Astronomical Society and author of hundreds of articles on astronomy, including "The Night Sky," a popular weekly column which has appeared for over a decade in New York and Massachusetts publications. He teaches astronomy in central New York.*

Interpreting Yellowstone with "Ranger Ted"
August 11-13 (see description page 10)

Fly Fishing the Catch-and-Release Way
August 12-14 less experienced
August 19-21 more experienced
$125 (Member's fee $115) Limit: 12

Both sessions of this course will emphasize the special nature of Yellowstone fishing—its abundance of native fish and the special regulations and fishing philosophies which have enabled park managers to protect and maintain a sport fishing resource. The course for less experienced persons will concentrate on the basics and is intended for those who have progressed far enough to purchase their own equipment but who have not spent much time actually fly fishing. About half the course time in this first session will be spent away from the water practicing casting and other techniques. During the second and third days, the instructor will work with half of the group each day on the stream. He will be available each evening for discussion.

The session for the more experienced is for persons who have mastered the basics and will focus almost exclusively on fishing Yellowstone's waters. The instructor will act primarily as a resource person in assisting participants in polishing their skills. Most instruction will be on an individual basis or in small groups. The instructor will work intensively with four persons each day. During the other two days of each course, instruction will be limited to morning and evening discussions.

***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.*

The Bison of Yellowstone
August 13-14
$65 (Member's fee $55)

Two days of field and classroom study will be devoted to this powerful symbol of the American West. Included will be evolutionary history, distribution, ecological relationships, identification of sex and age groups, interspecific relationships, sign, the Yellowstone population in the context of the bison's general



history, and management problems. The course is scheduled during the bison's rut to enhance the study of mating behavior, field identification by sex and age, and population regulation.

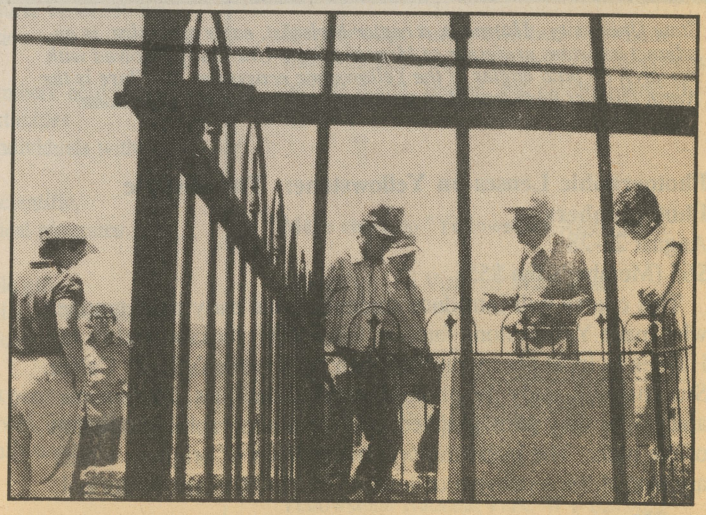
***Mary Meagher** has worked in Yellowstone since 1959. Her research on bison began in 1963. She has a Ph.D. in wildlife ecology from the University of California, Berkeley, and is the author of* The Bison of Yellowstone National Park, *a park service scientific monograph. She served as the park's supervising biologist from 1976 to 1983 and has now returned to fulltime research.*

Horsepacking: Indian Trails
Aug. 13-17 (see description page 18)

History of Yellowstone National Park
August 17-21
$195 (Member's fee $185)
Credit available (U or G 2 quarter hours; U of MT)

This seminar will trace the history and development of Yellowstone Park, from cultural roots in antiquity to the present, with particular emphasis upon its influence as a pilot model where problems of park management were solved to the benefit of a future national park system. Problems considered will include those involving administration, access, wildlife, facilities and public use; all requiring some degree of solution to validate the "national park concept." Also covered will be Indian trails, the Army period, pioneer hotels, and place names.

***Aubrey L. Haines**, M.S., is a former Yellowstone National Park historian who has published a documentary study and a two-volume history of the park,* The Yellowstone Story, *since his retirement in 1969. He has also served as a consultant on historical research for the National Park Service and the Bureau of Outdoor Recreation.*



Horsepacking: The Washburn Expedition Trail
Aug. 18-22 (see description page 18)

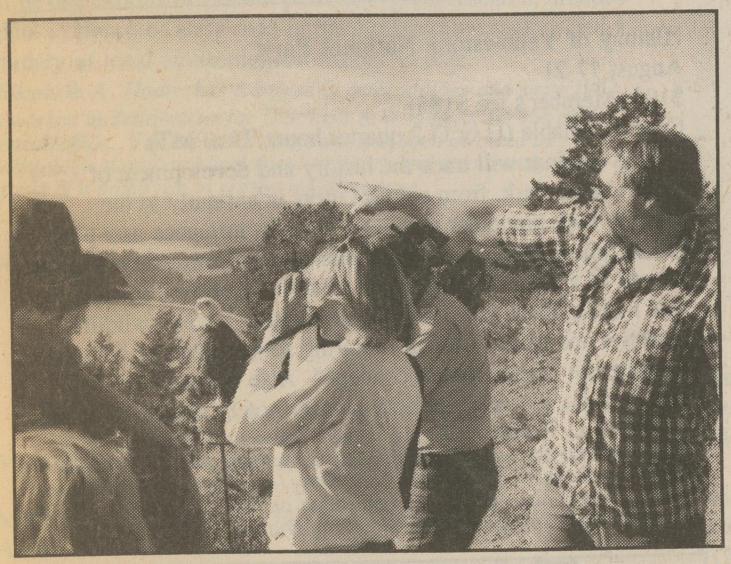
Fly Fishing: More Experienced
Aug. 19-21 (see description page 21)

Bald Eagles of Greater Yellowstone
August 26
$12 (Member's fee $7)

This program will be a joint effort with the Bald Eagle Working Group for the Greater Yellowstone Ecosystem. Included will be a field trip to a nesting site plus discussion of nesting behavior, population trends, and research methods. Presentations will also cover bald eagle biology, habitat status, management, threats to recovery, banding programs, and a summary of the Group's latest research reports for the present season compiled the day before this session.

Program schedules will be mailed to registrants at least 4 weeks prior to the seminar date. The location will be determined by the number of preregistrations.

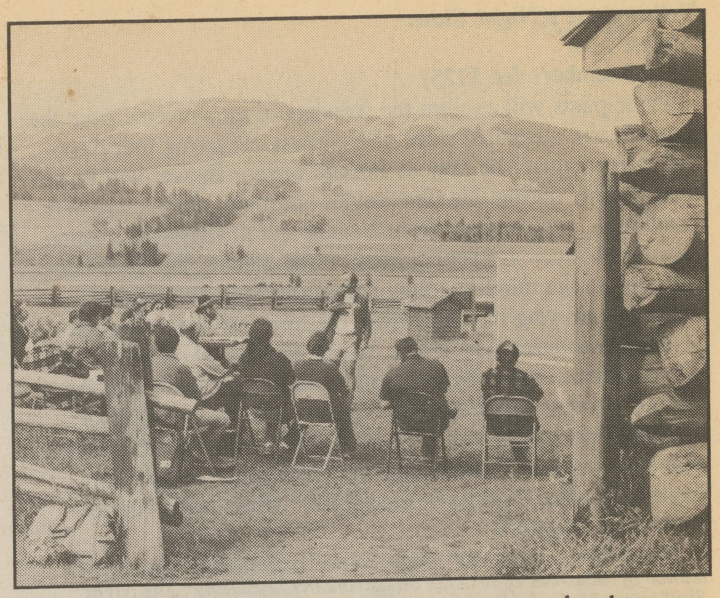
Al Harmata, Ph.D., will serve as coordinator for the program and field trip. Included among the speakers will be Bald Eagle Working Group members ***Bob Oakleaf, Bob Jones, Mike Whitfield,*** *and* ***Craig McClure.*** *Oakleaf is a non-game coordinator for Wyoming and a member of the National Recovery Team.* ***Jones*** *is a wildlife biologist for the BLM Medicine Lodge Resource Area with seven years experience in all aspects of bald eagle management.* ***Whitfield*** *is chairman of the GYE Working Group and a researcher for Montana*



State University. ***Harmata,*** *a raptor biologist, eagle specialist, is an adjunct assistant professor at Montana State University involved with research on bald eagles of the Yellowstone ecosystem.* ***McClure*** *is the North District Resource Management Coordinator in Yellowstone.*

Photographic Lenses on Yellowstone: The Historic Photographers
August 27-28
$65 (Member's fee $55)

This course will introduce students to the early photographers who made Yellowstone famous, from W.H. Jackson and F. Jay Haynes to local photographers such as Bozeman's H. B. Calfee. Students will study the photographer's techniques, the features and places they photographed, and the photographic promotion of the park. The instructor will bring slides of originals which are part of the extensive collections of the Montana Historical



Society. Field trips to compare current scenes to the photo images will be included.

Bill Lang, *Ph.D., is editor of* Montana the Magazine of Western History. *He has served on the history faculty of Carroll College, the University of Montana and Montana State University. He has written numerous journal articles on the history of Montana and is author of* Montana: Our Land and People.

Hikes Into Yellowstone's Past
August 27-28 Mammoth
$55 (Member's fee $45)

This course has been designed especially for persons interested in the women of Yellowstone's early days — their roles, reactions, experiences, and perceptions. Using women's diaries and letters plus old photos and other historical resources, the group will explore in the footsteps of the park's early residents and tourists. Participants with sharp eyes and good detective skills will find many clues to understanding the past.

Day hikes of 2 to 4 miles can be expected. Park headquarters at Mammoth will be the meeting place. Information about nearby lodging and camping is available on request.

Laura Johnston *has worked on wilderness trail crews, as a biological researcher, as a forestry technician, and as leader of environmental education and conservation programs for the Youth Conservation Corps in Alaska. She currently lives and teaches in Yellowstone National Park.*

Contemporary Resource Issues in Yellowstone
August 29
$12 (Member's fee $7)

Perhaps no national park generates a level of public concern greater than Yellowstone. Resource issues garner local, regional and national attention, and sometimes the rhetoric is shrill. Though this has been the case since the park's founding, there are more varied and volatile issues now than at any time in its history. John Varley will act as moderator for a number of experts who will give presentations on such issues as the "greater Yellowstone ecosystem concept," encroachments of civilization on park boundaries, the plight of threatened and endangered species, wildlife management policies, and the Fishing Bridge controversy. Emphasis will dwell on clear, concise presentations followed by dialogue with the audience.

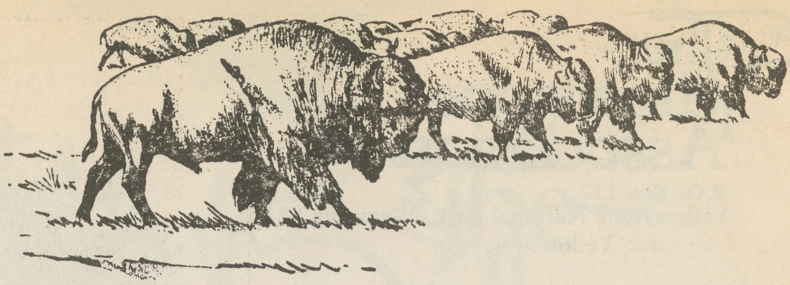
John Varley *is Chief of Research for Yellowstone National Park and coauthor of* Freshwater Wilderness: Yellowstone Fishes and Their World. *He will coordinate presentations by authorities on a variety of resource issues.*

NEEDS LIST

Among the several thousand readers of this brochure are some who may be able to easily help acquire certain needed items for the Institute classes.

Below is a description of a few such objects. Anyone who has a surplus item or a suggestion regarding a possible source is invited to contact the director's office.

Gifts are, of course, tax deductible.



spotting scopes (2)
12-20 passenger vehicle
sturdy tripods (2)
light pointer (battery type)
staple gun
step ladder
gasoline-powered weed eater
printer for Macintosh Plus
large refrigerators (propane, 2-3)
wooden bookshelves
duffle bags or dry bags (1-2)
two-way radios (2)
video monitor (or large screen portable TV)
zoom lens for Kodak Carousel projector
stackable arm chairs for classroom (20-30)
dissecting microscopes, stereo (2-3)
folding classroom tables (4-6)
extra 16-mm projector
Hard Disk for Macintosh Plus
small tool kit
misc. hand tools (saw, hammer, wrenches, etc.)
small copy machine
small fire extinguisher
panniers (2-3 sets)
quality knives (2)

Educational courses, programs, or field trips especially for your group can be arranged through the Yellowstone Institute. Call or write for details.

Please accept this invitation to join the Yellowstone Association.

The Association's mission is to educate the public to a better understanding and appreciation of the Yellowstone area and what it represents in terms of our historical and natural heritage.

You can be part of this noble cause by becoming a member of the Yellowstone Association.

Benefits of Membership

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:

* 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
* Institute course information sent by First Class Mail
* 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
* Discounts at many association bookstores in visitor centers at other national parks

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

Please enroll me as a member of

THE YELLOWSTONE ASSOCIATION

For Natural Science, History & Education, Inc.

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

Give name as you prefer for Association records.

Name_____
Address_____
City_____
State _____ Zip_____

Identify other family members for whom membership cards are desired. (Memberships include donor, spouse, and children through age 20.)

Make check to "Yellowstone Association."

Charge to: ☐ Visa ☐ MasterCard

Number_____
Expiration Date _____
Signature _____

DETACH AND MAIL TO:
Yellowstone Association
P.O. Box 117
Yellowstone National Park, WY 82190

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

Non-Profit Organization
U.S. POSTAGE PAID
Permit No. 104
Livingston, MT 59047

ADDRESS CORRECTION REQUESTED

Please help by sharing your
Institute Catalog with a friend.

Institute Office 307-344-7381 ext. 2384

Registration Form

Name_____ ☐ Male ☐ Female

Address_____ ☐ Check if different from address on Institute mailing list.

City_____ State_____ Zip_____ Office phone_____ Home phone_____

Where can you be reached one month prior to 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 and include immediate family.)

Course Title	Dates	Tuition	Are you enrolling for: a. academic credit?	b. teacher recertification or professional growth?

Lodging

☐ I want to stay in the Institute cabins in Lamar Valley at $6 per person per night, the **nights of** _____

☐ My class does not meet at the Institute's Lamar facility. See my attached note regarding need for lodging or camping information.

☐ I will make my own lodging or camping arrangements.

Total Tuition Fee(s) _____

Cabin Fee at $6 per person per night _____

Membership or donation (optional) _____

Total Enclosed _____

Charge to: ☐ Visa ☐ MasterCard

Number _____

Expiration Date _____

Signature of Cardholder _____

Detach and mail to: Yellowstone Institute
Box 117
Yellowstone National Park, WY
82190

Release and Assumption of Risk

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

Date _____ Signature _____

If under 21 years of age, parent or guardian must sign: _____

If under 21 years, give age: _____ years