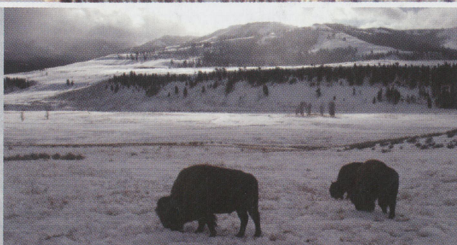




YELLOWSTONE
ASSOCIATION
INSTITUTE

Phillips / Reese
YI Collection

EDUCATIONAL PROGRAMS * WINTER 2006-2007



I N S P I R E . E D U C A T E . P R E S E R V E .

www.YellowstoneAssociation.org

WELCOME TO THE YELLOWSTONE ASSOCIATION INSTITUTE

THE MISSION OF THE YELLOWSTONE ASSOCIATION

The Yellowstone Association, in partnership with the National Park Service, fosters the public's understanding, appreciation and enjoyment of Yellowstone National Park and its surrounding ecosystem by funding and providing educational products and services.

To help visitors understand the entire Yellowstone ecosystem, we offer courses on the Gallatin, Caribou-Targhee, and Shoshone National Forests under a special use permit.

REGISTRATION

- Field Seminars: Yellowstone Association member registration begins June 5, 2006 at 8 a.m. Mountain Time; June 12 for non-members. Call 307-344-2294 or register online.
- Lodging & Learning: Registration has begun. Call 307-344-5566.
- Personal Ed-Ventures: Register any time. Call 307-344-2294.
- Group Programs: Register any time. Call 307-344-2591.
- Flexibility is a virtue in this winter wonderland where snow and temperature can be determining factors in arrival/departure times. Trails may be changed at the discretion of the guide depending on snow conditions. In the rare event of extreme cold weather, program activities may be modified or cancelled to protect the safety of participants.
- In the winter, students must come through the North Entrance in Gardiner, Montana, because all interior park roads are closed to cars.
- Unless otherwise stated in the course description, the minimum age is 18, or 16 if accompanied by an adult.

For detailed information on our policies, please contact our registrar at 307-344-2294 or visit our website at: www.YellowstoneAssociation.org



Printed on recycled paper with soy-based ink. Please recycle.



A Message from Yellowstone's Chief of Interpretation

Since 1933 the nonprofit Yellowstone Association has been the National Park Service's primary partner in education at Yellowstone National Park. The Yellowstone Association Institute was established by the Yellowstone Association in 1976 to provide in-depth educational programs for park visitors. Since that time the Institute has distinguished itself as a top quality program with expert instructors and a strong commitment to park stewardship. I am proud to introduce the Winter 2006–2007 catalog of courses, and I hope you will join the Institute for what is sure to be a memorable and rewarding educational experience here in Yellowstone National Park.

Sincerely,
Diane Chalfant,
Chief of Interpretation

Cover Photography: Main photo: Jonmikel Pardo, Insets: Jonmikel Pardo, Dody Sheremeta. NPS.

Visit our website at www.YellowstoneAssociation.org or call 307-344-2294.

WINTER 2006-2007 EDUCATIONAL PROGRAMS

WHICH OF OUR PROGRAMS IS RIGHT FOR YOU?

LODGING & LEARNING PROGRAMS mix just the right amount of education and recreation on your vacation. You'll be based at historic park hotels and taught by naturalist guides who are intimately familiar with Yellowstone. All packages include expert instruction, breakfast and box lunches, equipment rental (except where stated otherwise), in-park transportation, and optional evening programs. If you want a vacation package that covers almost all you'll need and provides fun and discovery, Lodging & Learning Programs are for you. See page 4.

FIELD SEMINARS are educational experiences that go deep! You'll examine individual aspects of the Yellowstone ecosystem through just the right combination of fun field excursions and classroom presentations. Taught by researchers, field biologists, and other experts, field seminars focus on specific subjects such as predator/prey relationships, geology, writing, and observing wildlife. You'll be amazed at how much you can learn in one to four days. See page 6.

We offer two different settings for field seminars:

- Our Lamar Buffalo Ranch Field Campus is based in the quiet northeast corner of the park, far from other development. For just \$25 per night, you will share a cozy log cabin with up to two other participants, a new bathhouse with private showers, and a common building with fully equipped kitchen where you prepare your own meals. For courses that require skis or snowshoes, rental equipment is readily available in Mammoth or Gardiner, or you can bring your own.

LAMAR TITLES APPEAR IN BLUE.

- Courses based in and around the park take advantage of vast learning opportunities throughout the Yellowstone region. You stay in hotels at various park locations and in gateway communities, and enjoy the restaurants and amenities of these areas during your learning experience. **REGIONAL TITLES APPEAR IN GREEN.**

PERSONAL ED-VENTURES immerse families or other small groups in Yellowstone through one-day natural history tours in the northern portion of the park. You can choose a road-based "wildlife" program or a more active "skiing or snowshoeing" option—each is eight hours and includes instruction, in-park transportation, and use of professional spotting scopes. You provide your own meals, personal clothing, and other equipment (including skis/snowshoes). Your own Personal Ed-Venture costs \$395 for up to seven people (\$50 for each additional person, up to 14). An Institute naturalist guide will meet you at Mammoth Hot Springs or Gardiner, Montana (MT). For an additional fee of \$50, your naturalist guide will meet you at Cooke City, MT or the Lamar Valley Buffalo Ranch. If your family or group is here for only a short time and wants a naturalist to show you around, a Personal Ed-Venture is for you. For more information, call 307-344-2294.

GROUP PROGRAMS are educational experiences in Yellowstone for extended families, nonprofit organizations, alumni associations, colleges, and other private groups. Groups can choose from a variety of program options led by expert Institute instructors and naturalist guides. The fee includes instruction, in-park transportation, park entrance passes (for multi-day courses), classroom space, and program materials such as spotting scopes. Participants must provide their own personal clothing and equipment, meals, and lodging. Winter Group Programs are based out of Gardiner, Mammoth Hot Springs, Lamar Valley, or Cooke City, MT. The standard group program costs \$625 per day for 8 to 14 participants or \$1,250 per day for 15 to 28 participants. A custom college level program costs \$725 per day for 8 to 14 participants or \$1,450 per day for 15 to 28 participants. Lodging at the Lamar Buffalo Ranch Field Campus is \$325 per night for 8 to 14 participants and \$650 per night for 15 to 28 participants. For more information, call 307-344-2591.

HOW FIT DO YOU NEED TO BE?

To rate the difficulty of each course, we consider distance, pace, elevation gain, and terrain. Many courses involve skiing or snowshoeing. In these courses, difficulty of course activities will vary based on your individual skill and experience on skis or snowshoes, and on the parameters addressed below. For more detailed information about each program, please refer to your student letter, or contact our registrar at 307-344-2294.

 **MINIMAL ACTIVITY**—Leisurely hikes up to 1 mile per day through relatively flat terrain on maintained or snow-packed trails.

 **EASY**—Hikes on snow-packed trails, or easy snowshoe or ski trips, 1 to 3 miles per day with climbs up to 250 feet.

 **EASY TO MODERATE**—Brisk hiking, snowshoeing, or skiing of 2 to 3 miles per day with climbs up to 500 feet, including some trail-breaking in snow.

 **MODERATE**—Brisk aerobic snowshoeing or skiing of 4 to 5 miles per day with climbs up to 1000 feet, or steep, rugged, off-trail skiing or snowshoeing including breaking trail in variable snow conditions.

 **STRENUOUS**—Brisk aerobic snowshoeing or skiing of 6 to 8 miles per day with climbs up to 2000 feet, or steep, rugged, off-trail skiing or snowshoeing including breaking trail in variable snow conditions.

LODGING & LEARNING



Photo: Jonmikel Pardo



Photo: MacNeil Lyons



Photo: Jonmikel Pardo

NORTHERN YELLOWSTONE ADVENTURE



Expand your winter exploration of Yellowstone through this program. In addition to wildlife watching, snowshoeing, and skiing in Yellowstone's Northern Range, you'll also travel by snowcoach to Norris Geyser Basin and the Grand Canyon of the Yellowstone. A learn-to-ski package is available for beginners. *

Dates:

Offered Wednesday to Saturday beginning December 27 to February 28

Lodging:

4 nights at Mammoth Hot Springs Hotel

Rates:

\$565 double occupancy,
\$699 single occupancy

NEW! FAMILY WINTER HOLIDAY



Bring your family on a winter adventure in Yellowstone that's just for families with children 8 to 12 years old. You'll track animals, watch wildlife, take photographs, ski and snowshoe. Enjoy a special snowcoach trip deep into the park to the Grand Canyon of the Yellowstone. Your children can become Yellowstone National Park Junior Rangers, earning the special patch that only winter junior rangers receive. *

Dates:

Offered December 26, January 19, February 16

Lodging:

4 nights at Mammoth Hot Springs Hotel

Rates:

\$575 double occupancy,
\$709 single occupancy,
\$405 per child

WINTER WOLF DISCOVERY



This is your opportunity to delve deeply into the world of Yellowstone's wolves with the guidance of experts, who share their knowledge about ecology and management of wolves. Experience the relaxation and excitement of watching for wolves and the exhilaration of snowshoeing in their environment. *

Dates:

Offered Sunday to Wednesday from December 31 to February 25 and Wednesday to Saturday beginning December 27, January 10, January 24, February 7, February 21

Lodging:

4 nights at Mammoth Hot Springs Hotel

Rates:

\$515 double occupancy,
\$649 single occupancy

WINTER WILDLIFE EXPEDITION



Wildlife abounds in Yellowstone's Northern Range, which you can access by vehicle and foot even in winter. Observe and learn about Yellowstone's pronghorn, bighorn, bison, elk, wolves, and other wildlife. *

Dates:

Offered Wednesday to Saturday beginning January 3, January 17, January 31, February 14, February 28

Lodging:

4 nights at Mammoth Hot Springs Hotel

Rates:

\$515 double occupancy,
\$649 single occupancy

WINTER IN WONDERLAND



During this week-long introduction to Yellowstone in winter, you'll watch wildlife, snowshoe, and ski in a variety of winter habitats, including the Lamar Valley, Old Faithful, and the Grand Canyon of the Yellowstone. *

Dates:

Offered Monday to Saturday beginning December 25, January 8, January 22, February 5, February 19

Lodging:

3 nights at Mammoth Hot Springs Hotel, 2 nights at Old Faithful Snow Lodge

Rates:

\$965 double occupancy,
\$1186 single occupancy

Lodging & Learning Programs have a limit of 10 to 12 participants per session. The minimum age is 12 unless otherwise stated.

Rates are per person and do not include taxes. Programs beginning December 25 through 29 have an extra charge.

In cooperation with the Park County Travel Council.

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

LODGING & LEARNING



Photo: Jonmikel Pardo

YELLOWSTONE ON SKIS



Yellowstone's varied winter habitats await your exploration. Ski the trails of the Old Faithful area and the Grand Canyon of the Yellowstone. Venture through the wildlife-rich Northern Range, including a day of skiing the trails of wooded, quiet Indian Creek. You must have at least advanced beginner skiing skills, such as basic snow plow, kick and glide, and turn. □



The February 12 session is advanced; you must be an advanced beginner skier and be able to ski distances of up to 10 miles.

Dates:

Offered Monday to Saturday beginning January 1, January 15, January 29, February 12, February 26

Lodging:

3 nights at Mammoth Hot Springs Hotel, 2 nights at Old Faithful Snow Lodge

Rates:

\$975 double occupancy,
\$1196 single occupancy
Ski rental is not included in rates.

NEW! WINTER RENDEZVOUS



Imagine hearing wolves howl at sunrise, learning to ski or snowshoe on backcountry trails, or viewing Thomas Moran's field sketches at the new Heritage and Research Center. After daily field trips like these, you'll return to delicious buffet-style meals, private accommodations, evening programs in the famous Map Room, and plenty of time to share stories with kindred spirits. Each session has a limit of 52; daily field trips are in small groups. □

Dates:

Offered March 6-10 and 10-14

Lodging:

4 nights at Mammoth Hot Springs Hotel

Rates with bath:

\$699 Double Occupancy
\$849 Single Occupancy

Rates without bath:

\$659 Double Occupancy
\$769 Single Occupancy



Photo: MacNeil Lyons

Members of the Yellowstone Association receive a \$10 discount.

FIELD SEMINARS



Photo: NPS



Photo: NPS



Photo: Jonmikel Pardo

#1101 **NEW! ARE WOLVES WORTH THE EFFORT?**



Start: November 1 at 9 a.m.
End: November 2 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Douglas Smith, Ph.D.
\$160
Limit: 12
Credit Pending

Wolves receive a lot of public and scientific attention. Are they worth it? With the park's wolf project leader, you'll explore the value of long-term research on wolves in Yellowstone and other parts of the world. What do these results reveal about wolves, their ecosystems, and about ourselves? Examine these questions on field trips to observe the wolves, short walks to study their scat, tracks, other sign, and carcasses they have killed. Early November in Yellowstone is quiet, but the animals are still active. Enjoy this "in-between" time of year when warm clothes and boots are the only equipment you'll need for comfortable exploration. *

#1102 **WILDERNESS FIRST RESPONDER**



Start: November 10 at 8 a.m.
End: November 19 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Wilderness Medicine Institute Staff
\$600
Limit: 24
Credit Pending

Required by many outdoor employers and recommended for all outdoor enthusiasts, this course teaches you through classroom sessions and field exercises to prevent and respond to incidents in the backcountry. Upon successful completion of this 80-hour course, you will receive certifications in Wilderness First Responder and American Heart Association CPR. No previous certification is required. *

#1201 **NEW TEACHER WORKSHOP! WOLVES IN YOUR CLASSROOM**



Start: December 1 at 6 p.m.
End: December 3 at 12 noon
Location: Lamar Buffalo Ranch
Instructors: Julianne Baker, M.A. & Ellen Petrick, M.A.
\$200
Limit: 24
Credit Pending

Educators: Immerse yourself in the heart of wolf country as you learn how to bring wolves in your classroom. Discover how wolves provide the key to opening students' interest in ecology, biology, wildlife management and research. During field trips, you'll observe wolves and explore their habitat. Your instructors are educators from the National Park Service and the Yellowstone Association Institute who will model an even-handed hands-on educational approach that airs all perspectives fully, accurately, and sympathetically. You'll leave with complete wolf education curriculum, and be renewed and excited about sharing science with your students. *

#101 **WILDERNESS FIRST AID**



Start: January 6 at 8 a.m.
End: January 7 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Wilderness Medicine Institute Staff
\$200
Limit: 24
Credit Pending

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

#102 **LEVEL I AVALANCHE SAFETY**



Start: January 12 at 7 p.m.
End: January 15 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Lance Riek, M.S.
\$300
Limit: 16
Credit Pending

Be safer in the winter backcountry by understanding what causes avalanches, when those conditions exist, and how to assess them. Through classroom sessions and two field days in the mountains above Cooke City, you'll learn snow science, avalanche hazard assessment, and search and rescue techniques. Snowmobile shuttles are included each day. Skis or snowshoes required. *

FIELD SEMINARS

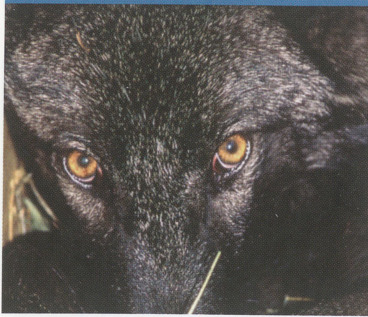


Photo: NPS



Photo: MacNeil Lyons



Photo: Jonmikel Pardo



Photo: Jonmikel Pardo

#103 YELLOWSTONE'S WOLVES



Start: January 17 at 6 p.m.
End: January 19 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$195
Limit: 19
Credit Pending

Experience the story of Yellowstone's wolves in the heart of wolf country, the Lamar Valley. It's a complex, rich, and dynamic tale woven of wolf ecology, biology, and management. You'll look for wolves at sunrise and sunset, spend classroom time focusing on wolf science and management, and go into the field to decipher wolf tracks and interpret wolf ecology. *

#104 BASIC SNOW TRACKING



Start: January 19 at 6 p.m.
End: January 21 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$195
Limit: 19
Credit Pending

The Yellowstone winter landscape provides a blank page for animals to write their story with prints in the snow. Learn to decipher these stories from an expert tracker in prime wildlife habitat: Yellowstone's Northern Range. You can gather the basic tools for identifying tracks and understanding the behavior of the animals that left them. Skis or snowshoes required. *

#105 SKIS ACROSS YELLOWSTONE



Start: January 21 at 6 p.m.
End: January 23 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$180
Limit: 12

Guided by North America's foremost animal tracker and winter ecologist, you'll glide across Yellowstone, enjoying the movement, the wildlife, the snow—and examining ecological phenomena as we happen upon them. Skis and advanced-beginner skiing skills required. *

#106 THE BUFFALO STORY



Start: January 26 at 6 p.m.
End: January 28 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Rick Wallen, M.S.
\$180
Limit: 19
Credit Pending

An American icon and its history and management come together only in one place: The Lamar Buffalo Ranch of Yellowstone National Park. Here, reintroduced bison joined the remnants of the once thundering great herds to build the strong, healthy herds grazing Yellowstone's valleys today. Join the park's bison ecologist at this historic site. You'll study bison behavior, biology, and ecology through roadside observation and snowshoe treks to explore bison habitat. Learn about the delicate, century-old story of bison management and why this story, so promising and full of hope, still has no end. *

#201 **NEW!** WOLVES IN AND AROUND YELLOWSTONE



Start: February 1 at 7 p.m.
End: February 4 at 4 p.m.
Location: Gardiner, Montana
Instructors: Nathan Varley, Ph.D.
Candidate & Linda Thurston, M.S.
\$340
Limit: 19
Credit Pending

The wolves in Yellowstone annually attract thousands of visitors hoping to see and hear these top predators. Are wolves as welcomed beyond the park's borders? Find out by contrasting the major social, economic, and management issues encountered on different landscapes with different management agencies. You'll observe wolves inside the park while discussing research and ecology, and you'll meet local people—such as ranchers and outfitters—whose livelihoods are affected by wolves. Explore this challenging topic with instructors who work inside and outside the park with wolves and the people they affect. Be prepared with very warm boots and clothing for extended periods outdoors on cold winter days. *

FIELD SEMINARS



Photo: Jonmikel Pardo



Photo: Jonmikel Pardo



Photo: MacNeil Lyons

#202 COUGARS: GHOSTS OF THE ROCKIES



Start: February 3 at 8 a.m.
End: February 4 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructors: Polly Buotte, M.S.
\$160
Limit: 19

Come as close as you can to Yellowstone's most elusive large carnivore—the cougar—by exploring the prime cougar habitat of the Northern Range with the lead field scientist of the Yellowstone Cougar Project. During challenging field trips on steep, rocky slopes, you will likely find cougar toilets, bed sites, and tree-scratches—but probably won't actually see this ghost of the Rockies. Snowshoes required. *

#203 THE YELLOWSTONE VOLCANO



Start: February 9 at 7 p.m.
End: February 11 at 5 p.m.
Location: Mammoth Hot Springs
Instructors: Jake Lowenstern, Ph.D. & Hank Heasler, Ph.D.
\$345
Limit: 19
Credit Pending

Explore the heart of the Yellowstone Volcano with the leading researchers who know the story. From Mammoth Hot Springs, you'll travel by snowcoach to Old Faithful, stopping at key geologic features that reveal the wonders of the world's largest active volcano. At Old Faithful, you'll explore geyser basins, inspect steam vents and rock formations, study current research, and most important, answer "what's in store for the future?" At the conclusion of the course, you may elect to extend your stay at Old Faithful to explore on your own. Skis or snowshoes required. Rooms have been set aside at the Mammoth Hot Springs Hotel and Old Faithful Snow Lodge. Call 307-344-5566 for hotel rates and reservations. *

#204 SILENCE & SOLITUDE: WINTER PHOTOGRAPHY IN YELLOWSTONE



Start: February 13 at 9 a.m.
End: February 15 at 5 p.m.
Location: Lamar Buffalo Ranch
Instructor: Tom Murphy
\$240
Limit: 11

Surrounded by the quiet, stunning beauty of Yellowstone winter, you'll learn photography techniques and philosophy. Field trips and classroom sessions focus on landscape composition, ethics, wildlife behavior, and the technical challenge of photographing in a winter environment. Bring your digital or film camera. This course is ideal for beginning to intermediate photographers. *

#205 OLD FAITHFUL WINTER PHOTOGRAPHY



Start: February 16 at 7 p.m.
End: February 19 at 5 p.m.
Location: Mammoth Hot Springs
Instructor: Pete Bengueyfield, M.S.
\$460
Limit: 10

Steaming geysers, frost-covered trees, bison herds, and vast winter landscapes await you in the heart of Yellowstone—Old Faithful. Travel by snowcoach from Mammoth Hot Springs to Old Faithful, where you'll explore the geyser basin and learn the art of complete nature and wildlife photography. As you become familiar with wildlife behavior, the character of the land, and photographic ethics, you'll also learn technical aspects of winter photography. This course is for advanced beginners or intermediates who are already comfortable working with their digital or film cameras. Rooms have been set aside at the Mammoth Hot Springs Hotel and Old Faithful Snow Lodge. Call 307-344-5566 for hotel rates and reservations. *

#206 **NEW!** DIGGING DEEP INTO WINTER



Start: February 17 at 9 a.m.
End: February 19 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny, Ph.D.
\$260
Limit: 19
Credit Pending

From snow pits to elk diets, experience winter with an ecology expert who has winter in his blood. You'll ponder weather and climate, analyze snow types and temperatures, build a snow shelter, and taste what elk eat in winter. Figure out how much a mouse or moose needs to eat by learning to calculate energy budgets, and why one weakened elk can keep a wolf pack strong. Be prepared for learning all day long—from morning lectures to afternoon field trips to evening experiments. You'll need warm clothing suitable for deep winter conditions, plus skis or snowshoes. *

FIELD SEMINARS



Photo: Jonmikel Pardo

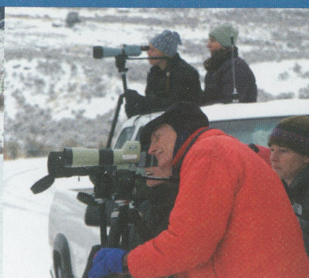


Photo: Jonmikel Pardo

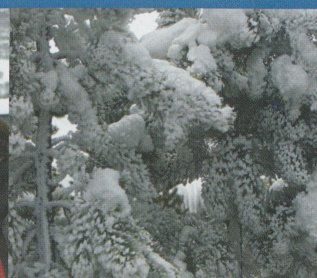


Photo: Jonmikel Pardo



Photo: Pam Cabill

#301 **NEW!** WOLVES OF THE PAST, PRESENT, & FUTURE



Start: March 3 at 9 a.m.
End: March 5 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructors: James Halfpenny,
Ph.D. & Jim Garry, M.S.
\$320
Limit: 19
Credit Pending

Discover a uniquely broad view of wolves from their evolutionary origins to interpretation of their sign to compelling renditions of classic wolf tales. In lectures and the field, you'll learn about wolf evolution, ecology, and management from carnivore ecologist Dr. James Halfpenny and the rich cultural history of wolves from folklorist Jim Garry. During field trips, you'll look for these magnificent canids and learn more about their restoration to Yellowstone. *

#302 YELLOWSTONE'S WINTER SERENGETI



Start: March 6 at 9 a.m.
End: March 8 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Jim Garry, M.S.
\$240
Limit: 19
Credit Pending

Indulge yourself with a winter safari to the Serengeti of North America, the Lamar Valley, when the snow-covered landscape serves as a dramatic background for bison, elk, deer, bighorn sheep, pronghorn, fox, wolf, coyote, and river otter. Through observation, you'll learn from the animals themselves what it means to survive winter in Yellowstone. In classroom and field sessions, you'll learn more about their winter behaviors and adaptations, how they interact with other species, and about basic winter ecology. Bring snowshoes for moderate forays on snow-packed trails. *

#303 **NEW!** THE BIRDS OF WINTER



Start: March 9 at 8 a.m.
End: March 10 at 4 p.m.
Location: Gardiner, Montana
Instructor: Brian Thorpe, M.S.
\$160
Limit: 12

Eagles, swans, dippers, and grouse: winter doesn't slow these birds down at all. Find out why some birds stay in Yellowstone year-round and other birds fly in for the coldest season. Learn to identify many of these winter species, observe their behavior, and discover their fascinating winter survival strategies through class sessions and field trips. If you are a beginning to intermediate birder, this course is for you! *

#304 **WRITING THE WILD**



Start: March 9 at 6 p.m.
End: March 11 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: Gary Ferguson
\$180
Limit: 12
Credit Pending

Steeped in the dramatic sites and sounds of Yellowstone in winter, this workshop is dedicated to helping you master the experience-based, creative nonfiction essay. Working with an author whose passion for Yellowstone is contagious; you'll explore your writing voice, improve basic writing skills, and learn key elements of storytelling. Classroom time will be broken by easy treks in the magnificent Yellowstone landscape. *

#305 **FANG & FLESH: HUNTER & HUNTED IN YELLOWSTONE**



Start: March 16 at 7 p.m.
End: March 19 at 2 p.m.
Location: Lamar Buffalo Ranch
Instructor: Rolf Peterson, Ph.D. &
Nathan Varley, Ph.D. candidate
\$325
Limit: 19
Credit Pending

Little in Yellowstone evokes more powerful emotion than watching predators in action—stalking, chasing, killing, and consuming prey. If you dare, join leading predator scientists to explore the primeval dance of life and death between predator and prey. How do predators hunt? How do prey escape? How do these interactions affect other predators, scavengers, even vegetation? In the classroom, you'll hear what these scientists have learned from the wolves of Isle Royale and Yellowstone National Parks. On field trips, you'll observe predators and prey, and examine a wolf-killed carcass. *

#305 **LESSER- KNOWN CARNIVORES**



Start: March 22 at 9 a.m.
End: March 24 at 4 p.m.
Location: Lamar Buffalo Ranch
Instructor: James Halfpenny,
Ph.D.
\$255
Limit: 12
Credit Pending

Meet the lesser-known carnivores of the Greater Yellowstone region: coyotes, foxes, cougars, lynx, bobcats, wolverines, otters, fisher, badgers, and marten. You'll explore carnivore biology, ecology, behavior, conservation, and evolution through classroom presentations and field trips to the habitats where these carnivores are found. Bring skis and be ready for excursions of up to 4 miles. *

INSTRUCTOR PROFILES

JULIANNE BAKER, M.A.,

moved to Gardiner, Montana, after more than 20 years visiting Yellowstone to hike, backpack, kayak, and ski. She retired from teaching in Michigan, where she taught environmental science, and now is a Resident Instructor for the Yellowstone Association Institute. She is a graduate of the National Outdoor Leadership School (NOLS), a Wilderness First Responder, and a certified master educator.

PETE BENGEYFIELD, M.S.,

has been a hydrologist with the U.S. Forest Service for 28 years. Also an accomplished self-taught nature photographer, Pete has been published in *National Wildlife*, *Outdoor Photographer*, and *Sierra Club Calendars* and many regional publications. He has combined his photography with writing to produce two books, *Mountains and Mesas*, and *Incredible Vision—The Wildlands of Greater Yellowstone*.

POLLY BUOTTE, M.S., is the field crew leader and G.I.S. analyst on Phase Two of the Yellowstone Cougar Project. She has worked as a wildlife biologist in the Northern Rockies for the past fourteen years.

GARY FERGUSON has written for dozens of national magazines, from *Outside* to *Vanity Fair*, and is the author of fifteen books on nature and science. *Hawks Rest: A Season in the Remote Heart of Yellowstone*, was the first nonfiction book to win both the Pacific Northwest Booksellers and Mountains and Plains Booksellers awards. Gary's latest work is *Decade of the Wolf: Returning the Wild to Yellowstone*, co-authored with wolf project director Douglas Smith.

JIM GARRY, M.S., is a naturalist and folklorist who works in the area where natural history, human history, folklore, and myth overlap—the rich soil that grows stories. He's spent a good bit of the last 37 years in the Greater Yellowstone Ecosystem, collecting stories from people and critters. His books include *This Ol' Drought Ain't Broke Us Yet* and *The First Liar Never Has a Chance*.

JAMES HALFPENNY, PH.D.,

is an ecologist, educator, and writer who has taught field courses since 1961 and was coordinator of Long-Term Ecological and Alpine Research at the University of Colorado. Jim, president of A Naturalist's World, produces educational books, computer programs, and videos, and travels the world teaching about bears, wolves, and animal tracks. Jim's most recent book is *Yellowstone Wolves in the Wild*.

HENRY HEASLER, PH.D.,

is the supervisory geologist for Yellowstone National Park. His areas of interest include geothermal systems, the geophysics of volcanic systems, terrestrial heat transport, and geologic mapping. He has published numerous articles on the geothermal systems of Wyoming and a geologic road guide to the area east of Yellowstone. As a native of Wyoming, he has enjoyed Yellowstone for more than 40 years.

JACOB LOWENSTERN,

PH.D., is a Research Geologist with the U.S. Geological Survey in Menlo Park, California and is the Scientist-in-Charge of the Yellowstone Volcano Observatory. Lowenstern is a leading expert on volcanoes and geothermal systems and the gases and waters that emerge from them. In addition to Yellowstone, he studied volcanoes in California, Alaska, Italy, Russia, Japan and the African nation of Eritrea.

TOM MURPHY owns Wilderness Photography Expeditions and conducts natural history photography seminars primarily in Yellowstone National Park. Tom's work has been published in *The New York Times Magazine*, *Newsweek*, *Outside*, *National Geographic*, and most of the major magazines that deal with natural history. Tom has published three books on Yellowstone; the latest is *The Comfort of Autumn: The Seasons of Yellowstone*.

ROLF PETERSON, PH.D.,

is Professor of Wildlife Ecology at Michigan Technological University, and has studied wolves for the past 35 years. He chairs the Recovery Team for the Gray Wolf, Eastern Population, and serves on the Board of Directors for the International Wolf Center.

ELLEN PETRICK, M.S.,

is with Yellowstone's formal education program. She holds degrees in Biology and Environmental Studies and is a certified secondary science teacher. She has taught, written curriculum, and managed education programs for twenty years, including work for the New Jersey School of Conservation, Weber State University, the U.S. Forest Service, Utah Division of Wildlife Resources, and the Ogden Nature Center.

LANCE RIEK, M.S., instructs avalanche classes for the Gallatin National Forest Avalanche Center (southwest Montana) and serves on the board of The Friends of the Avalanche Center. He has authored several articles on avalanche education and earned his M.S. degree with an ice-related thesis.

DOUGLAS SMITH, PH.D., leads the Yellowstone Wolf Project. He has published widely on the subject in magazines, books, and scientific journals. He is the co-author of *The Wolves of Yellowstone* and *Decade of the Wolf*, a summary of the first ten years of wolf recovery in Yellowstone. He also appears in the National Geographic video entitled *Return of the Wolf*.

BRIAN THORPE, M.S., has been interpreting Yellowstone and Glacier National parks for visitors since 1988 for the National Park Service, Yellowstone National Park Lodges, and the Yellowstone Association Institute. He earned his masters degree in 2000 with a thesis project examining neotropical migrant birds in Yellowstone National Park.

LINDA THURSTON, M.S.,

has worked on wolf management and research throughout the Rocky Mountains of the U.S. and Canada, including the wolf recovery project in Yellowstone, a wolf-elk research project near Banff National Park, addressing livestock depredation issues in Montana, and monitoring wolf populations in the Clearwater National Forest. She earned her masters degree from Texas A&M University for studying wolf denning behavior in Yellowstone.

NATHAN VARLEY, PH.D. CANDIDATE,

is a natural and cultural historian specializing in the Greater Yellowstone Ecosystem, where he has lived almost his entire life. As a wildlife biologist, he has studied many of Yellowstone's large mammals, including elk, wolves, bears, and bison. For his Ph.D. at the University of Alberta, he is studying the effects of wolf restoration on the park's Northern Range elk herd.

RICK WALLEN, M.S., is the Wildlife Biologist and Team Leader for Yellowstone National Park's Bison Ecology and Management Program. He has worked as Chief of Resource Management at Bryce Canyon National Park, Fish and Wildlife Biologist at Redwood National Park, and as Resource Management Biologist at Grand Teton National Park.

WILDERNESS MEDICINE INSTITUTE (WMI), an institute of the National Outdoor Leadership School, has been a leader in wilderness medicine education since 1976. WMI provides all levels of wilderness medicine training for state and federal agencies, colleges, and outdoor programs throughout the West.

Photo: Jonmikel Pardo

JOIN THE YELLOWSTONE ASSOCIATION



WHY JOIN? BECAUSE WE NEED YOU!

Photo: NPS

Your voice will be added to those of more than 18,000 people who believe that education is the most powerful and effective method for ensuring that Yellowstone will remain as it is today: a treasured refuge to share with our children, grandchildren, and countless others who seek solace and renewal in its majestic wilderness. Since its inception in 1933, the Yellowstone Association has been instrumental in preserving the park's varied wildlife, dynamic geology, intricate ecosystem, and lengthy human history.

The Yellowstone Association is the park's official educational partner, working diligently to encourage in-depth understanding of Yellowstone's unique and fragile ecosystem and priceless cultural treasures. Each year we teach more than 5,000 Institute participants, park visitors take home more than 540,000 educational products from our stores in park visitor centers, and our 18,000 members receive educational opportunities and publications.

When you join the Yellowstone Association, you can be satisfied knowing you are helping to preserve irreplaceable wildlands, save endangered and threatened wildlife, and protect this national treasure for generations to come. With the help of people like you, we can send a strong message of support for America's remaining wild places. Your membership counts!

Becoming a member means you'll receive *Yellowstone Discovery*, which features in-depth articles about Yellowstone's wildlife, history, current events, geology, and cultural resources. You will also be eligible for discounts on Institute courses and our educational products in our park stores and online.

Of every dollar you give, 81 cents supports visitor education in Yellowstone. The Association provides funds to the National Park Service for wayside and museum exhibits, interpretive programs, scientific conferences, research, and educational publications. So please—join the effort to preserve Yellowstone and join the Association today!

For more information about the Association's membership program, call 307-344-2289 or send an email to Membership@yellowstoneassociation.org.

THE PARK STORE

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

To purchase items, please visit the Park Store at www.YellowstoneAssociation.org or call the mail order staff toll-free at 877-967-0090. Members of the Yellowstone Association receive a 15% discount. Proceeds support research and education in Yellowstone.

Members of the Yellowstone Association receive a \$10 discount.



YELLOWSTONE
ASSOCIATION
INSTITUTE

P.O. Box 117
Yellowstone National Park
Wyoming 82190

www.YellowstoneAssociation.org

ADDRESS SERVICE REQUESTED

NON-PROFIT
ORGANIZATION
US POSTAGE PAID
BOZEMAN MT 59715
PERMIT #106

H. W. Phillips
2601 3rd Ave N
Great Falls, MT 59401-2854

07 #0002

