

YOSEMITE CONSERVANCY

AUTUMN.WINTER 2016 :: VOLUME 07.ISSUE 02

Protecting Yosemite's Wildlife

INSIDE

Tracking Black Bears in the Park

Songbird Science in Yosemite

Expert Insights on
Sierra Nevada Red Foxes

Q&A with a Biologist
about Yosemite's Owls



**YOSEMITE
CONSERVANCY**

Providing For Yosemite's Future

**YOSEMITE CONSERVANCY
COUNCIL MEMBERS**

CHAIR

Philip L. Pillsbury Jr.*

PRESIDENT & CEO

Frank Dean*

VICE CHAIR

Bob Bennitt*

**VICE PRESIDENT,
CFO & COO**

Jerry Edelbrock

COUNCIL

- | | |
|-------------------------------------|--|
| Hollis & Matt Adams* | Jean Lane |
| Jeanne & Michael Adams | Walt Lemmermann* |
| Gretchen Augustyn | Melody & Bob Lind |
| Susan & Bill Baribault | Sam & Cindy Livermore |
| Meg & Bob Beck | Anahita & Jim Lovelace |
| Suzu & Bob Bennitt* | Mark Marion &
Sheila Grether-Marion |
| David Bowman &
Gloria Miller | Patsy & Tim Marshall |
| Tori & Bob Brant* | Kirsten & Dan Miks |
| Marilyn & Allan Brown | Robyn & Joe Miller |
| Steve & Diane Ciesinski* | Janet Napolitano |
| Sandy & Bob Comstock | Dick Otter &
Judy Wilbur |
| Hal Cranston* | Sharon &
Philip Pillsbury* |
| Carol & Manny Diaz | Bill Reller |
| Leslie* & John Dorman* | Pam & Rod Rempit |
| Dave & Dana Dornsife* | Frankie & Skip Rhodes* |
| Lisa & Craig Elliott | Liz & Royal Robbins |
| Kathy Fairbanks | Dave Rossetti &
Jan Avent* |
| Sandra &
Bernard Fischbach | Lisa & Greg Stanger* |
| Cynthia & Bill Floyd* | Jennifer &
Russ Stanton* |
| Jim Freedman &
Karine Joret | Ann & George Sundby |
| Susan & Don Fuhrer* | Susan & Bill Urick |
| Bonnie Gregory | Clifford J. Walker* |
| Rusty Gregory* | Wally Wallner* &
Jill Appenzeller |
| Karen & Steve Hanson | Jack Walston &
Sue Estes |
| Chuck &
Christy Holloway* | Phyllis Weber* &
Art Baggett |
| Christina Hurn &
Richard Tassone | |
| Jennifer &
Gregory Johnson* | |

YOSEMITE NATIONAL PARK

Acting Superintendent Woody Smeck

*Indicates Board of Trustees

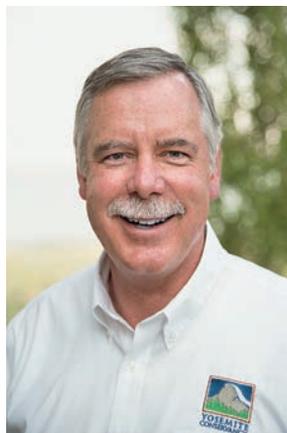


MISSION

Providing for Yosemite's future is our passion. We inspire people to support projects and programs that preserve and protect Yosemite National Park's resources and enrich the visitor experience.

PRESIDENT'S NOTE

Yosemite is Wild at Heart



When people think of national parks, spectacular scenery and good times usually come to mind. Our informal surveys show that park visitors also value seeing wildlife in their natural environment. Fortunately, Yosemite provides refuge for both people and wildlife. Despite the crowds in the Valley, the park's wildlife is thriving in Yosemite's exceptional habitat.

How do we know? Thanks to donor-supported research on indicator species, such as song birds, and on top-tier predators, such as great gray owls, scientists know more than ever. Your support has helped yellow-legged frogs return from the brink of extinction, reintroduced bighorn sheep to the heart of Yosemite, confirmed the presence of Sierra Nevada red foxes and much more.

Last year, as I walked across Ahwahnee Meadow, I heard a loud rustling sound, then watched as a yearling black bear bolted across the road to the Merced River. Fortunately, no cars were present. I was captivated by the grandeur, speed and pay-no-heed behavior of the bear in its natural environment.

In this issue, you will read how donor-funded bear research and tracking technology is saving bears by keeping them wild, as well as insights on several of Yosemite's wild animals. You will also find revealing updates on other Conservancy programs and grants, and a gorgeous new Yosemite book.

This is all possible because of your generous support. Thank you! I hope you will enjoy the wild heart of Yosemite in the coming year, just like our beloved bears and expert Yosemite biologists. You deserve it!

Thanks for all you do for Yosemite!

Frank Dean

Frank Dean, President

COVER PHOTO A black bear cub perches in a pine tree. PHOTO: © CAITLIN LEE-RONEY.



Connect with us online!
Follow Yosemite Conservancy, and stay connected.





CONTENTS

AUTUM.WINTER 2016
VOLUME 07.ISSUE 02

ABOVE Thanks to your support, endangered Sierra Nevada bighorn sheep are making a comeback in Yosemite.

IN THIS ISSUE



04 PROTECTING YOSEMITE'S BEARS

The wildlife team uses the newest technology to track and protect Yosemite's most iconic mammal.



08 THE SCIENCE OF SONGBIRDS

North America's longest-running songbird research program is unlocking the secrets of migratory birds.



10 MEADOWS AND THE ANIMALS WHO LOVE THEM

Photos capture Yosemite's beautiful meadows and the varied critters that call them home.

DEPARTMENTS

12 EXPERT INSIGHTS

Tracking the rare Sierra Nevada red fox, and other wildlife in their habitat, with wildlife biologist Stephanie Eyes.

14 Q&A WITH A YOSEMITE INSIDER

Researching Yosemite's spotted owls and great gray owls with biologist Mike McDonald.

16 GRANT UPDATES

Peek at work-in-progress to preserve giant sequoias, count bighorn sheep, visit Yosemite's Pioneer past and more.

21 PROGRAM UPDATES

Capture autumn color, learn about Yosemite's natural history and pick up an inspiring new publication.

24 ANNUAL REPORT EXCERPT

Your gifts are making a difference in Yosemite.

26 WHY I GIVE

Conservancy donors share their stories of inspiration and passion.

30 READER PHOTOS

Yosemite Conservancy supporters share their special Yosemite memories.

PROTECTING YOSEMITE'S

BEARS

PARK BIOLOGISTS USE GPS
TO PROTECT A BELOVED SPECIES



Black bears are as iconic in Yosemite as granite domes and sequoias. They have foraged for berries, acorns and insects in Sierra forests and meadows since long before John Muir set foot in Yosemite Valley. Impressively strong and smart, these omnivorous creatures rarely attack humans and have never caused a serious injury in the park.

People, however, pose a notable threat to Yosemite's bears. As visitors flocked to the park in the early 1900s, bears grew "food-conditioned," quickly learning that campgrounds and parking areas meant easy access to calories. Trash-filled "bear pits," designed to draw the animals away from campers' food, became a popular tourist attraction. Unfortunately, bears' dining habits became unhealthy and their search for food dangerously destructive.

Today, those pits are distant history, and Yosemite has a robust bear-management program focused on keeping bears wild and healthy. Since 1989, Conservancy donors have provided nearly \$2 million for research and tools that have remarkably improved bear-human relationships in the park. Incidents (defined as a bear causing damage, stealing human food, >

.....

RIGHT Strong, smart and curious, black bears are adept at finding food in their natural environment — and in Yosemite's developed areas. PHOTO: © CAITLIN LEE-RONEY.



A brown bear is climbing a large tree trunk covered in moss. The bear is positioned on the left side of the frame, looking upwards. The tree trunk is the central focus, with moss growing in patches. The background is a soft-focus forest with green and orange leaves.

“The more we know about bears’ movements, the more we can work to reduce human–bear conflicts.”

— CAITLIN LEE-RONEY
Yosemite Wildlife Biologist

causing an injury or “bluff charging”) have dropped from a record high of nearly 1,600 in 1998 to fewer than 200 annually since 2011; in 2015, there were 76 incidents — a 40-year low.

Yosemite wildlife biologist Caitlin Lee-Roney, who started working with the bear program at age 17, has witnessed the transformation. In the early 2000s, she recalls, the team struggled to stay ahead of bear-related incidents: “Bears were in campgrounds almost nonstop. We would have 10 or more vehicle break-ins in a single night.”

Today, her team spends most of its time on prevention, not intervention. “We focus on educating people and preventing bear behavior from escalating,” Lee-Roney says. “When [bears] are not around people or development, we leave them alone, so they can be wild.”

BEHIND THE SCENES WITH THE BEAR TEAM

Yosemite’s bears and visitors share a “busy” season: spring through fall. Between May and August, the bear crew, operating in shifts, works 18 to 24 hours per day. Most days start with a look at data from battery-operated GPS bear collars, which were funded by Conservancy donors and allow the team to keep a close eye on bears that frequent developed areas.

Collaring a 200-pound wild animal is no easy task: Each

effort requires three to five people to capture, anesthetize, collar and release the bear. The GPS collars record locations hourly, allowing managers to monitor bears’ movements and respond as needed. The team uses the data to plan daily patrols and place staff in areas where human–bear encounters are likely. Bear near a campground? Head there to educate visitors about food storage, and chase the animal back into the woods, if needed. Bear near a road, causing a “bear jam”? Direct traffic, and remind people to stay a safe distance away.

In addition to informing the bear team’s day-to-day activities, GPS monitoring technology supports long-term management. Data from the collars informs efforts to reduce bear–vehicle collisions, prompts conversations with neighboring communities about preventing bear–human incidents, and offers insights into bears’ habitat and food preferences.

BIG-PICTURE BEAR MANAGEMENT

High-tech tools and active monitoring are crucial to Yosemite’s bear program, but the team cannot protect this iconic species alone. Visitors make crucial contributions to successful wildlife management by observing animals from a distance, watching for bears and other animals on park roads, and keeping food out of reach.



LEFT Yosemite’s new interactive bear website will include a map, shown here in draft form, that tracks collared bears (red) and those struck by vehicles (brown). **MIDDLE** The slim GPS collar fitted around this bear’s neck transmits hourly data to wildlife managers, and detaches after two years.

PHOTOS: (LEFT) © WHARTON MEDIA. (MIDDLE & RIGHT) © CAITLIN LEE-RONEY.

Throughout the years, the Conservancy community has played a big part in helping the public pitch in to protect bears. Donors have funded nearly 2,000 bear-proof food lockers distributed at trailheads and developed areas throughout the park. Our Wilderness team helps backpackers rent sturdy canisters to store food and scented items in the backcountry. Visitors learn about Yosemite's bears through "Keep Bears Wild" items sold in our bookstores. With your support, the park's bear team is building a website to educate people about our shared role in protecting bears and other wildlife in the park.

The Yosemite bear team's ongoing efforts — and your generous contributions — are paying off: As of July 2016, incidents were trending even lower, down by 56 percent from record low levels in 2015. But there's still work to do. Midway through the year, 24 bears had been hit by cars; seven were killed on impact. One of those fatalities resulted in three orphaned cubs.

We all have a role to play in ensuring these charismatic, curious forest-dwellers can continue to grow, forage and roam in the Yosemite Wilderness. Thanks to your help, generations to come will be able to see bears not in parking lots or campgrounds, but sauntering through meadows and trees, crunching acorns or clawing insects out of tree bark, as wild animals in their wild home. ■



RIGHT A Yosemite biologist checks on the electronic monitoring equipment that alerts the wildlife staff when bears are close to campgrounds.

BLACK BEAR FACTS

Fast sprinters. Agile climbers. Superb smellers. Want to know more about these animal superstars? Read on to boost your ursine IQ.



Biologists estimate that **300-500** black bears live in Yosemite National Park.



An average bear weights **150** (female) to **250** (male) pounds.



Despite their name, black bears are usually brown, blond or reddish in color.



Black bears keep a largely vegetarian diet, primarily eating grasses, berries and acorns, as well as some ants, termites and insect larvae.

In the fall, bears eat up to **20,000** calories per day to prepare for hibernation.



If you encounter a bear, stay at least **50** yards away.



50 YARDS



Yosemite has seen a **95%** reduction in bear incidents since 1998. A bear incident occurs when a bear causes monetary loss (damaged property or stolen food) or, more rarely, injury to a person.

To report a bear sighting, no matter where or what the animal is doing, call 209-372-0322, or email yose_bear_mgmt@nps.gov.
Learn more at nps.gov/yose/learn/nature/bears



THE SCIENCE OF SONG BIRDS

New insights from a long-running research program

A day on Yosemite's bird crew starts before dawn, with a headlamp-lit hike through a meadow to unfurl soft nylon nets, wait for feathered study subjects and uphold a long-running tradition. Yosemite's songbird-research program launched in 1990; today, its five bird-banding stations are responsible for the most extensive songbird data in the national park system.

Grants funded by Yosemite Conservancy donors spanning 19 of the program's 27 years have allowed the bird crew to study rare species, understand the importance of wildfire, record some of North America's oldest birds, and document how avian demographics are shifting, as environmental conditions change. Recent work, for example, revealed that at least one species, the willow flycatcher, no longer breeds in the park.

ABOVE Using special tools— and gentle hands —biologists study delicate songbirds to answer important questions about ecosystems in Yosemite and beyond.

The research has widespread implications. “When it comes to understanding and protecting the ecological health of the park, birds represent a critical piece of the puzzle,” Yosemite biologist Sarah Stock says.

Studying these living puzzle pieces requires long hours, specialized tools and steady hands. Between 6 am and noon, the bird crew follows a careful routine: Check nets for birds; gently remove each bird; record its species, age, sex and weight; place a numbered aluminum band around its leg; release the bird; head back to the nets.

Early meadow mornings add up. In 2015, the crew collected data on 1,872 individual birds representing 68 species. Among those studied was one of eight black-headed grosbeaks that had been outfitted with tiny GPS “backpacks” in 2014. Data from the retrieved device revealed the bird had paused on its journey south to shed feathers, making it a “molt-migrant.” When the crew recaptured a second backpack-bearing grosbeak in June 2016, an identical path emerged.

The grosbeak discovery underscores why Yosemite’s bird-banding research matters beyond park borders. Songbird journeys and demographics provide important clues to environmental changes in the Sierra and across the West. Climate change could lead to a mismatch between migration schedules and food availability for grosbeaks and other molt-migrants.

“Birds are indicators of environmental conditions and tell us about Yosemite’s future in a changing climate.”

— SARAH STOCK
Yosemite Wildlife Biologist

“Birds are indicators of environmental conditions and tell us about Yosemite’s future in a changing climate,” Stock says. As park researchers use avian clues to understand current and potential environmental shifts, they’re committed to engaging more people, including interns, school groups and Conservancy Outdoor Adventures participants, in songbird science. Everyone who spends time at Yosemite’s bird-banding stations, whether scientist, fourth-grader or park visitor, leaves with a deep sense of the program’s value — and of the need to preserve the park as a sanctuary for songbirds and other wildlife. Thanks to you, scientists are expanding a rich data set and helping to ensure Yosemite continues to serve as a haven, where birds and habitats are protected for generations to come. ■



TRACKABLE BACKPACKS

Black-headed grosbeaks breed in Yosemite and migrate south in late summer. Thanks to your support, the park’s bird team has mapped the species’ path using miniature GPS-equipped “backpacks.” An unusual pattern emerged: After leaving Yosemite, the birds pause to molt their feathers in northern Mexico before continuing to their winter grounds.

Meadows and the Animals Who Love Them

The next time you stop for a photo or picnic alongside one of Yosemite's mountain-framed meadows, take a moment to observe the diverse life thriving in such a seemingly simple place. Grasses and wildflowers intertwine in a lush carpet. Butterflies and bees zip among blooms. Birds and toads provide a natural soundtrack.

For years, our donors have supported grants to preserve meadows throughout the park, restoring critical habitat fragmented by social trails, invasive plants, pavement and more. Your continued support ensures Yosemite remains a haven for species that rely on meadows, from monkeyflower to monarchs and, ultimately, humans.



MONARCH BUTTERFLIES

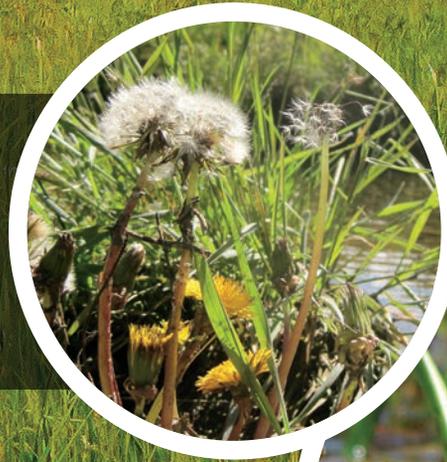
depend on milkweed. This crucial plant, the exclusive food source for monarch caterpillars, is declining nationwide. Donor-funded efforts to expand Yosemite's milkweed population could help monarchs thrive in and beyond the park.

GREAT GRAY OWLS live along meadow margins, nesting in mature trees and hunting rodents among tall grasses. Thanks to you, Ackerson Meadow, home to the Sierra's largest population of these endangered birds, is now protected as part of Yosemite.



HUMMINGBIRDS feast on nectar, pollinating flowers in the process. As meadows on unprotected land face threats from increasing development, Yosemite's meadows provide a safe haven for these small, yet tremendously important, animals.

DANDELION (*Taraxacum officinale*) and other invasive plants out-compete native flora, disrupting the wetland habitat and food sources on which many species depend. Donor-supported efforts to remove invasives improve the resilience of Yosemite's meadows.



THE YOSEMITE TOAD, found only within a 150-mile span of the Sierra Nevada, relies on high-elevation wetlands to breed and feed. This threatened species is bouncing back, thanks to donor-funded meadow-restoration projects.



YOSEMITE'S SIERRA NEVADA YELLOW-LEGGED FROGS are getting a boost through careful management. Meanwhile, thanks to your support, crews are working in Lyell Canyon, Tuolumne Meadows and elsewhere to restore habitat on which this endangered species relies.





SIERRA NEVADA RED FOXES

TRACKING YOSEMITE'S HIGH-ALTITUDE MAMMALS

BY STEPHANIE EYES, WILDLIFE BIOLOGIST, YOSEMITE NATIONAL PARK

ABOVE Remote cameras and genetic samples allow scientists to study a rare mammal: the Sierra Nevada red fox (pictured here in northern California). **MIDDLE** This motion-capture image, taken in December 2014, confirmed the presence of the Sierra Nevada red fox in Yosemite. **RIGHT** Carnivores, such as bobcats and coyotes, compete with red foxes for prey. **FAR RIGHT** A member of the wildlife crew checks a motion-capture camera in Yosemite's high country.

Many have heard the exciting news about a Sierra Nevada red fox with a long, fluffy, white-tipped tail frolicking through the snow for the first time in Yosemite National Park in nearly 100 years. Since that first photograph, taken in December 2014, cameras have provided more photos of foxes in two new locations in Yosemite!

Now that we know there are foxes here, we are working closely with our collaborators at UC Davis, the California Department of Fish and Wildlife, Central Sierra Environmental Resource Center and the US Forest Service to build on existing knowledge and answer new questions about Sierra Nevada red foxes and other wildlife in their habitat.

Yosemite's red foxes are threatened under the state's Endangered Species Act and consist of a small, isolated population of fewer than 50 individuals. The population faces many threats, including habitat loss, a decrease in prey species (small rodents and snowshoe hares), and competition from coyotes and genetic inbreeding.



PHOTOS: (RED FOX IN GRASS) © KEITH SLAUSEN. (RED FOX IN SNOW, BOBCAT, WILDLIFE CREW & STEPHANIE EYES) © COURTESY OF NPS. (COYOTE) © CLAIRE F. MEYLER.

PROJECT SUMMARY

With support from a Conservancy donor-funded project on rare carnivores, biologists recently reported the first sighting of a Sierra Nevada red fox in Yosemite in nearly a century. This year, biologists are using motion-activated cameras, “hair snare” stations and scat surveys to learn about the fox population’s geographic distribution and genetic makeup. Scientists are also studying the animals that share the fox’s habitat, including competitors, such as coyotes and bobcats, and prey, such as Douglas squirrels. This research will help inform efforts to protect the Sierra Nevada red fox, ultimately leading to a self-sustaining population of the species in Yosemite.

Non-native red foxes (initially brought over for fur-farming and later released) are being found at higher elevations and interbreeding with Sierra Nevada red foxes, increasing the risk of losing the Sierra Nevada red foxes’ unique genetic composition. Coyotes have also been documented at higher elevations in recent years. Red foxes tend to exclude themselves from areas with coyotes, so upward coyote movement is a cause for concern for this high-elevation-dwelling mammal. Complex issues such as this inspire many questions and often require extensive field work to collect data.

Motion-activated cameras are a great tool to help us answer some of these questions. After a long winter of waiting, our team recovers the cameras’ SD cards and may flip through thousands of photos searching for any indication of an animal. Many images are triggered by wind, sunlight, shadows or precipitation; but we do catch images of the rare Sierra Nevada red fox, bobcats above 10,000 feet, curious mountain lions exploring higher elevations, playful Douglas squirrels active all winter, snowshoe hares, white-tailed jackrabbits and a little-studied critter in the Sierra Nevada: a porcupine!

We also collect animal scat (feces) and hair for our partners at UC Davis to examine. Through DNA extraction, we can figure out the number of foxes, their origins, whether they are inter-breeding and what they’re eating.

The data we collect helps the future of a rare animal native to Yosemite. On behalf of the wildlife team, thank you, Conservancy donors, for contributing to science that will help us keep Sierra Nevada red foxes roaming the alpine for years to come! ■



STEPHANIE EYES is a wildlife biologist in Yosemite, overseeing the park’s owl- and carnivore-monitoring programs. She has been a National Park Service employee since 2014 and previously worked in Yosemite for the US Geological Survey. Eyes received her MS degree from Humboldt State University, studying the effects of fire severity on Yosemite’s spotted owls. While finishing her master’s degree, Stephanie worked for the US Forest Service, monitoring the Pacific fisher population south of the park. Her previous experience includes monitoring reintroduced bald eagles at Channel Islands National Park and observing migrating raptors in southwestern Wyoming.

“Anytime someone is lucky enough to see an owl in the park, they can thank Conservancy donors.”

— MIKE McDONALD

Wildlife Biologist & Field Crew Lead for Owl Research

Q&A

WITH A
YOSEMITE
INSIDER



As co-leader of Yosemite's owl crew, Mike McDonald plays a key role in efforts to understand and protect rare birds.

B iologist Mike McDonald is passionate about protecting Yosemite National Park's wildlife. Since 2004, he's worked on wildlife projects in the park. In his present job as co-lead of the owl research field crew, McDonald directs a team of biologists collecting data on two sensitive owl species: great gray owls and spotted owls. Reporting to wildlife biologist Sarah Stock, McDonald's team provides much-needed information to guide wildlife management in protecting these iconic species.

Q :: What do you love about working as a biologist in Yosemite?

A :: I feel connected to the species we study. The spotted owls and great gray owls are very charismatic. You can look at them and imagine you know what they're thinking. Plus, it's exciting to work in the woods at night. We call to the owls with our voices, and they respond. We observe them hunting and defending their territories. They're beautiful animals and easy to love.

Q :: What little-known facts about these owls might surprise our readers?

A :: I am always impressed by how the spotted owls are so

long-lived, monogamous and territorial. One owl in Yosemite was seen in the same territory for more than a decade. It's really beautiful that they know this patch of forest so well.

Great gray owls are similarly faithful and long-lived. They are visually the largest owls in North America, but not the heaviest. They're mostly feather, so they don't weigh as much as you might think.

Q :: Why is it important to preserve the great gray owls and spotted owls in Yosemite?

A :: Yosemite's great gray owls are an isolated, distinct subspecies of the great gray species. Though the population has persisted for millennia, it is tiny in number — and endangered. Having a protected area such as Yosemite is a huge boon to the protection of the species.

The California spotted owl is also a protected species. The data we're gathering helps managers make decisions to keep these species around forever.

Q :: What have you learned about these species through Conservancy donor-funded research?

A :: We are learning some key things about Yosemite's owls, such as how many owls live in the park, their habitat requirements and their resiliency to fire. [Biologists in Yosemite] were worried that the large, severe burn from

the 2013 Rim Fire would drive owls from their territories, and they wouldn't return. In fact, we're seeing most of the spotted owl and great gray owl pairs returning to nest sites after the Rim Fire. Next year, we hope to discover more nesting pairs of owls.

Q :: How do Conservancy donors help protect Yosemite's owls?

A :: Our work wouldn't be possible without the Conservancy. Anytime someone is lucky enough to see an owl in the park, they can thank Conservancy donors for supporting the persistence of these species. ■

“The spotted owls and great gray owls are very charismatic...They're beautiful animals and easy to love.”



ABOVE Yosemite provides a haven for two-thirds of California's great gray owls, and harbors a distinct subspecies, *Strix nebulosa Yosemiteensis*. **RIGHT** Thanks to you, scientists are learning how wildfire transforms the habitats and breeding behaviors of Yosemite's spotted owls.

Give the Gift of Yosemite

Share your love for Yosemite this holiday season with a gift from the Yosemite Conservancy Bookstore. Every purchase helps us preserve and protect Yosemite for generations to come.

Conservancy donors receive a 15% discount with code HOLIDAY2016*

Shop now at yosemiteconservancy.org/shop

*Code valid through Jan. 31, 2017; online purchases only.



PROTECTING YOSEMITE'S GIANTS

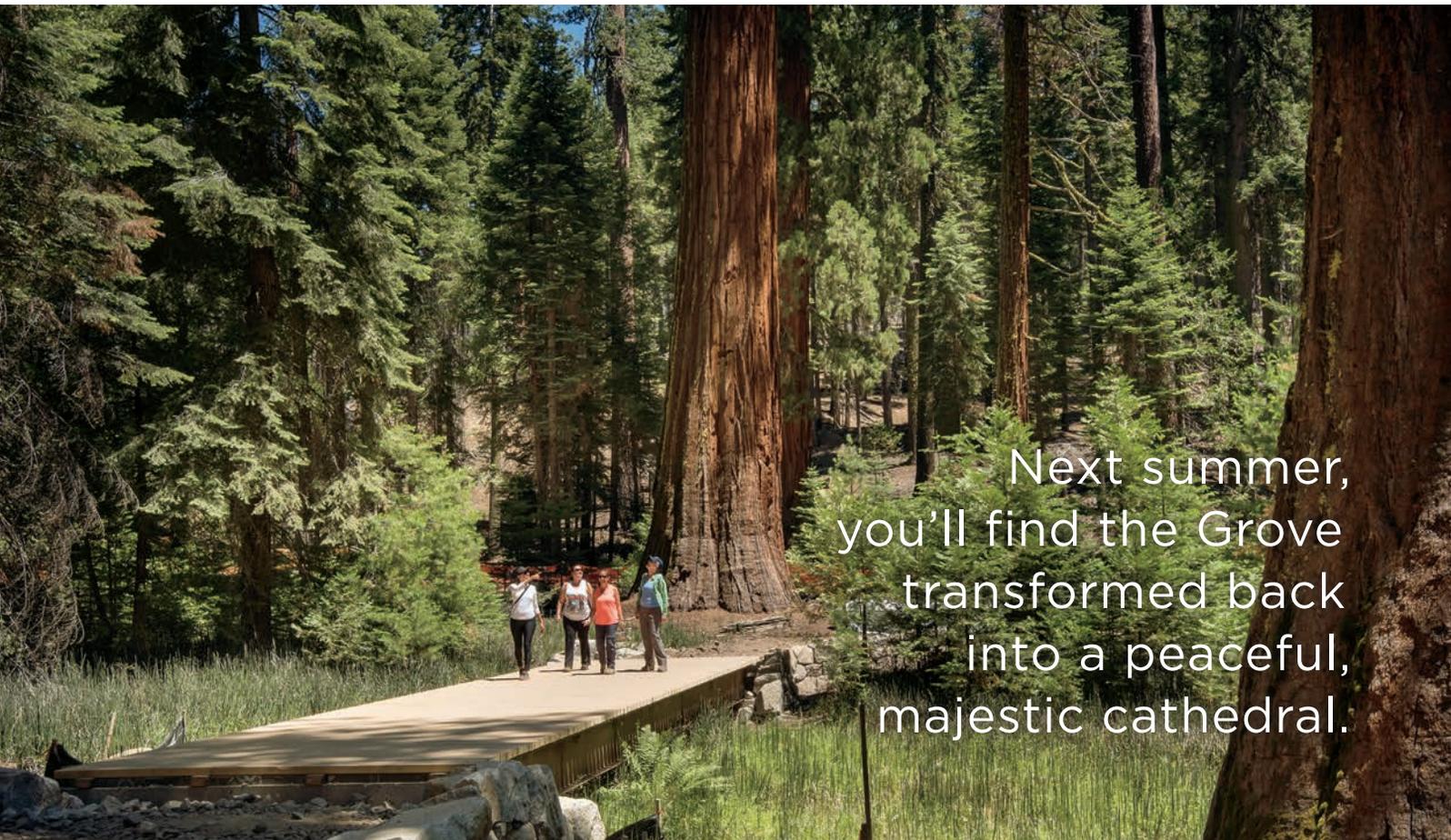
UPDATES ON THE RESTORATION OF
MARIPOSA GROVE

In 1855, carpenter Galen Clark walked among the giant sequoias in Mariposa Grove for the first time. Imagine that moment: Clark dwarfed by massive trees, steeped in a tranquility broken only by the tap of a woodpecker or wind rustling through branches. From that day forward, he pushed for the trees' protection, later serving as the first state-appointed custodian of Mariposa Grove and Yosemite Valley.

A century and a half later, the Mariposa Grove of Giant Sequoias had changed. Roads laced through the trees; rumbling vehicles replaced natural serenity. Now, thanks to you, the Conservancy is working with the National Park Service on a multiyear restoration effort to ensure this iconic forest continues to thrive, so that today's seedlings grow into 1,000-year-old giants towering over countless future generations of visitors.

With your support, the Conservancy has contributed \$20 million toward the restoration project, matching funding provided by the

.....
LEFT Smooth-surfaced trails to the Grizzly Giant and California Tunnel Tree let visitors of all abilities see iconic sequoias up close.



Next summer, you'll find the Grove transformed back into a peaceful, majestic cathedral.

ABOVE When Mariposa Grove reopens to the public in 2017, visitors will find a carefully designed system of trails and boardwalks that allows people to experience the majesty of the trees in a tranquil, inspiring setting, far from the hum of traffic. **RIGHT** Visitors can touch a slice of history on this section of a naturally-felled giant sequoia log, with rings dating from 1215 to 1950. **FAR RIGHT** Volunteers and youth conservation crews have helped clear acres of invasive plants to restore the natural ecology. **BELOW** A new footbridge provides a tranquil path over sensitive habitat, protecting the plants and soil below.



National Park Service. Work crews broke ground in June 2014. When work wraps up next summer, you'll find the Grove transformed once again — this time, back into the peaceful, majestic cathedral that helped inspire Clark in the 1850s. As work continues, your gifts are already making a difference in Mariposa Grove. ■

Thank you to the many generous donors who have supported this multiyear transformation.





PHOTOS: (TOP) © STEVE YEAGER, (MIDDLE & BOTTOM) © YOSEMITE CONSERVANCY

PHOTOS: (TOP) © KEITH WALKLET, (BOTTOM) © COURTESY OF NPS

SURVEYING FOR BIGHORN SHEEP

WILDLIFE TEAMS MONITOR YOSEMITE'S NEW BIGHORN HERD



TOP Bighorn sheep have adapted to thrive in the rocky, high-elevation terrain of the Sierra Nevada. **MIDDLE** Yosemite biologists use powerful scopes to search for endangered sheep and their predators. **BOTTOM** A special sight from a 2016 survey: A bighorn ram perched on a steep cliff.

Last year, a herd of endangered Sierra Nevada bighorn was released into the Cathedral Range, marking the species' return to Yosemite's heart after a 100-year absence. Now, thanks to continued support from Conservancy donors, who have funded 18 bighorn-related grants throughout the years, scientists are tracking the herd and working toward the long-term goal of establishing a self-sustaining bighorn sheep population in the center of Yosemite.



In 2016, wildlife biologists used GPS technology and field surveys to monitor the sheep's movements, to confirm lambs had survived the winter, and to search for signs of predators, such as golden eagles and mountain lions. In one memorable moment, our project coordinator caught a glimpse of a bighorn ram on a rocky slope near Washburn Lake, blending perfectly with its surroundings, as if Muir's cherished animal alpinists had been there all along.

With your support, these iconic mammals are reclaiming their place in the Yosemite Wilderness. ■

Thank you to Joan Egrie for generously providing funds in support of this project.



NEW SHELTER FOR CAMP 4



TOP New, elevated canvas tent cabins, complete with bear-proof lockers, serve as comfortable seasonal homes for Search and Rescue volunteers.

BOTTOM The “SAR-siters” provide vital support for hundreds of emergency operations each year, including technical rescues on Yosemite’s big walls.



Head to our blog to meet a 2016 SAR-siter at yosemiteconservancy.org/blog/living-small-making-a-big-difference

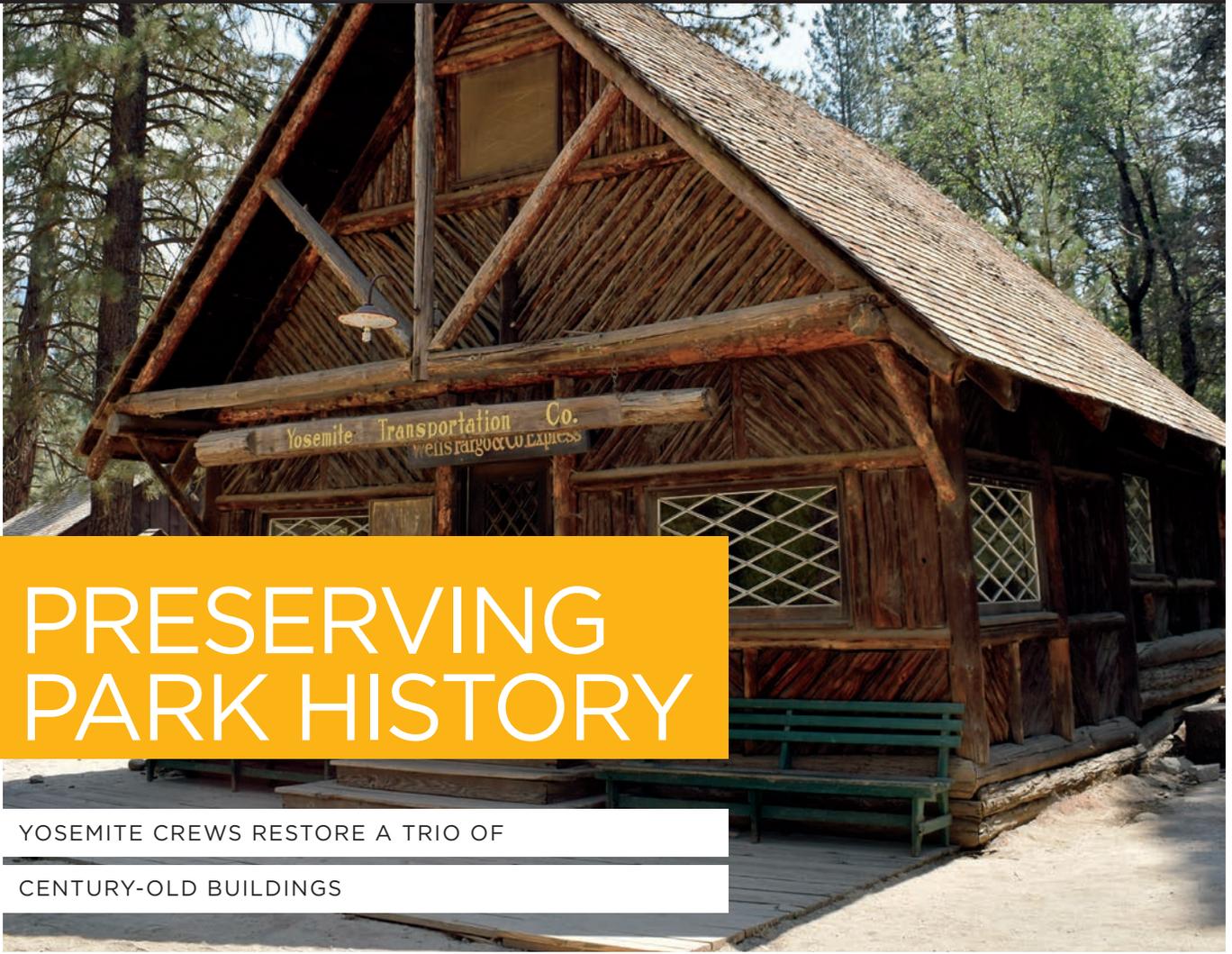
REPLACING TENT CABINS FOR SEARCH AND RESCUE VOLUNTEERS

Each spring, rock-climbers stream into Yosemite’s walk-in Camp 4. Most are there to explore the park’s world-famous walls, but a handful have an even bigger challenge ahead: Serving as “SAR-siters,” the volunteers who support Yosemite’s Search and Rescue efforts.

During their six months on the team, SAR-siters contribute to a range of emergency-response missions, from assisting lost hikers, to performing swiftwater rescues, to helping climbers stranded on steep rock faces. They rest up for expeditions in their seasonal homes: canvas cabins in Camp 4.

Living in these tent cabins helps promote camaraderie and provides easy access to the rescue-equipment cache, but after more than a decade of use and harsh weather, some of the cabins have fallen into disrepair. Gifts from Conservancy donors in 2015 and 2016 helped replace four cabins with new structures that provide SAR-siters with a comfortable, protected place to live, as they donate their time and skills to keep visitors safe. ■

Thank you to Jim and Kay Stiles for generously providing funds in support of this project.



PRESERVING PARK HISTORY

YOSEMITE CREWS RESTORE A TRIO OF
CENTURY-OLD BUILDINGS



The Crane Flat cabin, built 101 years ago to house civilian rangers, is one of three historic Yosemite structures restored this year.

New woodwork will help preserve the 106-year-old Wells Fargo Office, a hub for Yosemite visitors in the early 1900s.

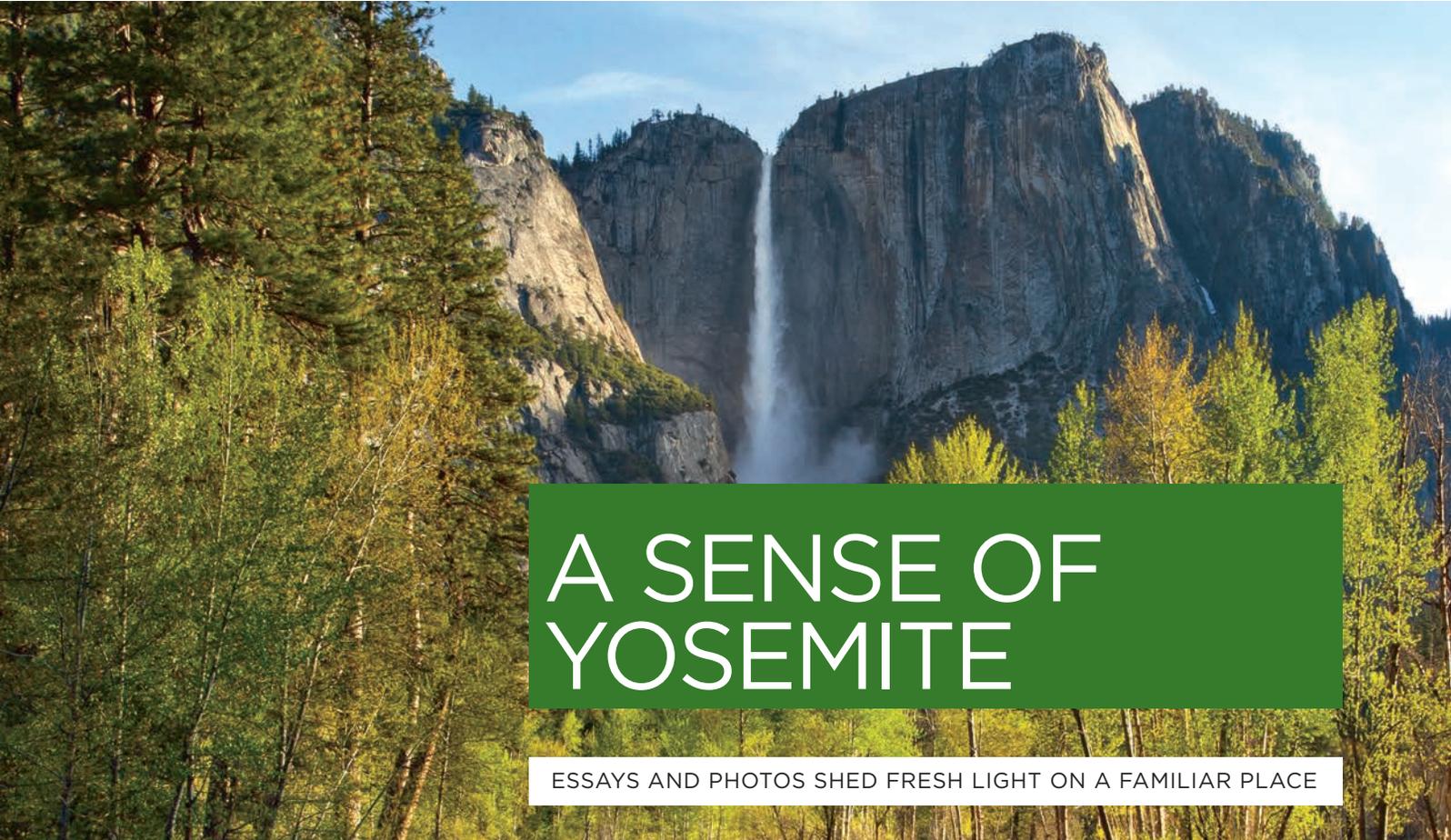
The Pioneer Yosemite History Center, created in the 1950s and 1960s, consists of historic structures from different eras of Yosemite's history. This year, with your support, crews are using special preservation techniques to restore three structures from the past:

1879: Rancher Jeremiah Hodgdon built a cabin in Aspen Valley, becoming one of many settlers who claimed land in the Yosemite area before it was named a national park.

1910: Wells Fargo erected an office in Yosemite Valley, where visitors to the 20-year-old park purchased stage-coach tickets and sent telegrams.

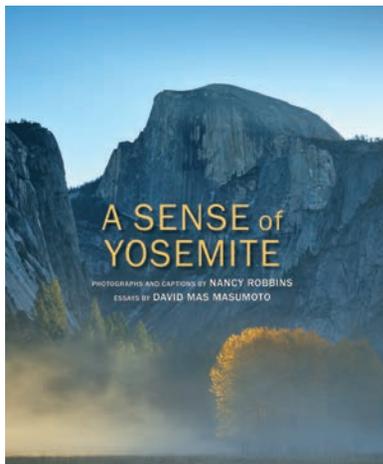
1915: Civilian rangers, key figures in the pre-National Park Service era, moved into a new patrol cabin at Crane Flat.

Donors, such as you, are helping to save pieces of the park's past, so future visitors will be able to relive the human history of Yosemite's early years as a protected landscape. ■



A SENSE OF YOSEMITE

ESSAYS AND PHOTOS SHED FRESH LIGHT ON A FAMILIAR PLACE



“When we actively seek a connection and bond with a place ... we are no longer alone in nature but, rather, part of the natural world that envelops us.”

— MAS MASUMOTO

“When does Yosemite become *our* Yosemite?”

That question anchors one of Mas Masumoto’s essays in *A Sense of Yosemite*, a new collection of prose and photos from the Conservancy’s publishing team.

A Central Valley organic fruit grower and renowned author, Masumoto’s writing is rooted in the land around his 80-acre farm. That land is Yosemite, the home of photographer Nancy Robbins, who has spent years capturing the Sierra’s natural beauty. In this book, Robbins and Masumoto draw readers into the park through the sensory and seasonal experiences of two people whose lives are steeped in granite slopes, hushed forests and wildflower meadows.

The collection isn’t just about their sense of the park; it’s about our Yosemite. As Masumoto writes, that phrase evokes a sense of a common domain, of taking responsibility for the future of our public lands. Read his musings. Get lost in her breathtaking images. Emerge with a sense of wonder at this special place — and in our shared role to preserve it for the future. ■



Proceeds from this book, and from all Yosemite Conservancy retail items, support important work in the park. To purchase, visit one of our bookstores in Yosemite, or shop online at yosemiteconservancy.org/shop



AUTUMN ART

ARTIST TIPS FOR FALL PAINTING



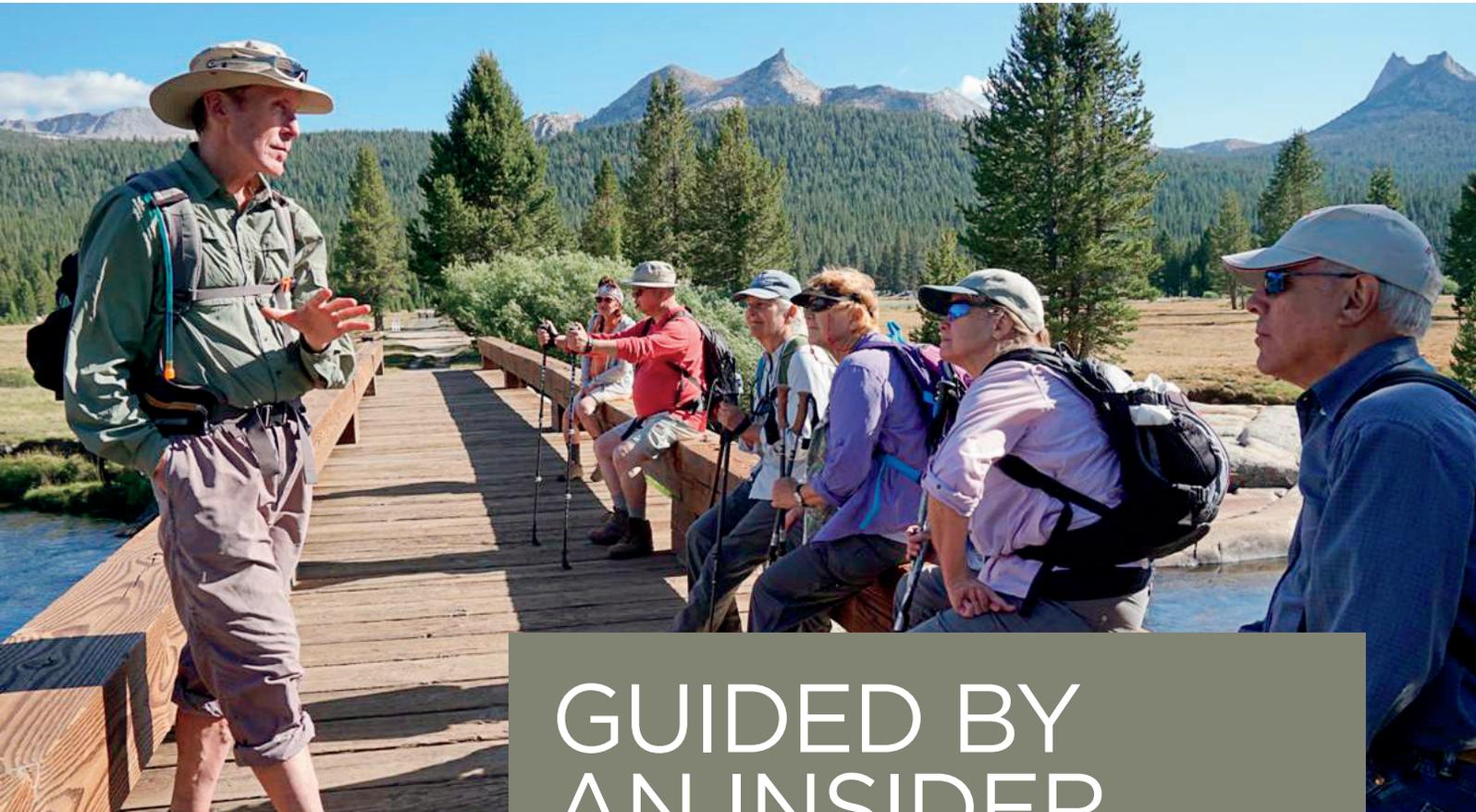
Long after waterfalls and flowers have faded for the year, autumn glides into Yosemite in a breath of crisp air, golden meadows and red dogwoods. As the park calms after summer, fall is a perfect time to slow down with the season, and spend some time capturing Sierra scenery on paper.

Wondering where to start? Pam Pederson, an instructor for the Conservancy’s art workshops in the Valley, recommends finding a spot along the Merced River, where you can see Half Dome mirrored in slow-flowing water. Dip into greens and yellows to illustrate chartreuse plants and dark pines, and apply paint to damp paper (“wet-on-wet”) to capture their soft reflections. Let the sun warm your shoulders, but bring a poncho to keep yourself and your masterpiece dry in case of rain.

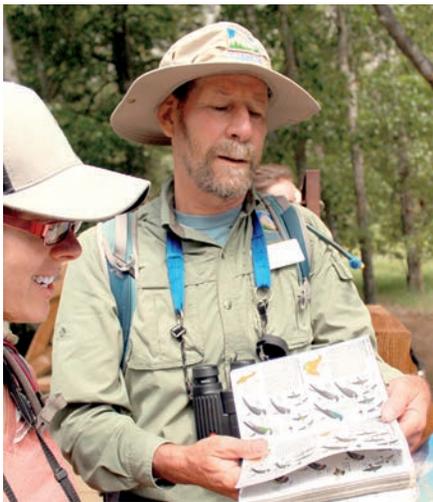
Our expert artists know how to capture Yosemite’s beauty in any season. Join us next year (April–October) for an outdoor workshop in the park. ■

ABOVE Participants in the Conservancy’s art workshops learn to capture seasonal scenery during outdoor drawing and painting sessions. **RIGHT** Paintings by Pam Pederson, a Conservancy art instructor, capture the experience of exploring Yosemite in autumn. PHOTOS: (LEFT) © KEITH WALKLET. (RIGHT) © PAM PEDERSON.

 Check out our art workshop schedule online at yosemiteconservancy.org/artcenter2017



GUIDED BY AN INSIDER



TOP During a high country hike, Outdoor Adventure participants learn about the ecology and history of surrounding peaks, meadows and waterways. **BOTTOM** What bird is that? Ask a naturalist! Conservancy guides use expertise in diverse topics, including ornithology, to create enriching programs.

LEARN FROM EXPERTS ON NATURE-FOCUSED ADVENTURES

It's easy to zoom through Yosemite's highlights with a simple guidebook and map. Half Dome: check. Sequoias: check. Waterfalls: check. If you want to go beyond the basics, though, you need an insider's perspective.

Enter the Conservancy's naturalist guides, who take you to little-trafficked places, focus more on fueling curiosity than filling Instagram feeds, and show you how your gifts make a difference in Yosemite. Many of our naturalist guides have more than three decades of experience in the park, with expertise in subjects such as forestry, botany and geology. They lead adventures as varied as day hikes in the footsteps of famed ranger-naturalist Carl Sharsmith, hands-on bird-banding demonstrations, and relaxed backpacking treks to explore alpine animal habitats.

Nearly a century ago, we launched the first national park field school. Today, thanks to Outdoor Adventures, visitors continue to benefit from immersive experiences that stretch minds, not just muscles, and underscore the part we all play in preserving the park. ■



Find your adventure: See our full 2017 schedule of Outdoor Adventures at yosemiteconservancy.org/outdoor-adventures



YOSEMITE
CONSERVANCY

2015 Annual Report HIGHLIGHTS

Your gifts make an impact!

AS A CONSERVANCY DONOR, you play a vital role in Yosemite. The 41 new grants you funded in 2015 transformed trails, restored habitat for plants and animals, created enriching visitor experiences, and more. And by volunteering, participating in our in-park programs and shopping in our bookstores, you deepened your connection to the park, while supporting projects that preserve and protect its resources.

With enormous gratitude, we share selected highlights from a successful 2015. Thank you for ensuring Yosemite's future.

500

MATURE SEQUOIAS

(and thousands of seedlings) will thrive for generations, thanks to a multiyear restoration project in Mariposa Grove.



Total support to Yosemite surpassed

\$13,200,000

including gifts from more than **42,000** donors.

Backpackers helped keep bears wild by renting



9,015

**BEAR-PROOF
CANISTERS**
from the Conservancy.

More than

110

**MILES OF
TRAILS**

benefited from the work
of world-class crews.



More than

630,000 **PARK
VISITORS**

connected with Yosemite Conservancy through in-park
programs, bookstores and wilderness services.

Sierra Nevada bighorn sheep
returned to their ancestral
Cathedral Range habitat
for the first time in

100

YEARS.



More than

25,000

YOUNG PEOPLE

explored nature and stewardship
through donor-funded Youth in
Yosemite Programs.



For the full Annual Report
and financial information, visit
yosemiteconservancy.org/annualreport



LEFT Jenny Augustyn and Ali Meghdadi: The perfect picture of a couple in love - with each other, and with Yosemite!

“With Yosemite, we have so much wonder and beauty right in our backyard.”

— **ALI MEGHDADI**
Yosemite Conservancy Donor

Honoring Love, Loving Yosemite

Couple says “I do” with gifts to the Conservancy

What do you give to the couple that has everything? How about a gift that keeps on giving — for this generation and the next? When Jenny Augustyn and Ali Meghdadi wed on Dec. 31, 2015, they asked friends and family to make gifts in their honor to Yosemite Conservancy in lieu of store-bought presents. Ali explained: “Neither of us needed a toaster. This way, people made a gift that felt special, and we shared our love of Yosemite.”

For this outdoorsy couple, asking for gifts in their honor helped loved ones feel connected to their new union. A self-described pair of “rock-climbers,



MIDDLE For Sierra-smitten outdoor enthusiasts Jenny and Ali, asking wedding guests to donate to the Conservancy was a natural choice.

naturalists, animal-lovers and hikers,” Jenny and Ali each held fond memories of climbing Half Dome (separately) in their teen years. Together, they return often to Yosemite to climb, hike and enjoy Conservancy gatherings. Of the wedding-tribute gifts, Jenny says: “For us, it was the pinnacle of everything we hold dear: gathering together the people in our lives, sharing environmental awareness and supporting this organization we hold in great esteem.”

Wedding guests were inspired by the couple’s request. At the reception, friends and family shared stories of fond memories in the park. Ali and Jenny hope the shared memories and experiences prompted their loved ones to keep visiting Yosemite — and to keep giving.

“With Yosemite, we have so much wonder and beauty right in our backyard,” Ali explains. Jenny adds: “To give back, to invest in nature — this is what matters to us. We hope others want to get involved, too.” ■

RIGHT Jenny and Ali’s wedding guests shared memories of Yosemite, and were inspired by the couple’s request to support the park. The gift-request cards, reprinted here, bear the likeness of a mighty giant sequoia.

Would you like to celebrate an important milestone with gifts in your honor, made to Yosemite Conservancy?

Please contact Isabelle Luebbbers at 415-434-8446 x313 or iluebbbers@yosemiteconservancy.org or visit yosemiteconservancy.org/milestone



Giving Back to a Yosemite Home

Valley doctor has the perfect prescription for giving

For Dr. Gary Flashner, supporting Yosemite is a passion. As a newlywed in the 1980s, Gary and his wife honeymooned in Yosemite and fell in love with the park; he asked for a job in the Yosemite Medical Clinic. “It was an amazing opportunity to raise a family in the most pristine environment, with a wonderful community,” he says.

Gary witnessed firsthand how Conservancy donors make a difference in the park. Inspired, he has generously supported the Conservancy as a member of the John Muir Heritage Society, giving monthly via the Sequoia Society, and by donating his expertise.

An expert in trauma and wilderness medicine, Gary helped create risk-management manuals for the Outdoor Adventures program and the wilderness patrol staff. He says, “I jumped at the chance to give back!”

As a member of the Joseph Le Conte Legacy Society, Gary continues to give back, with a planned gift to the Conservancy. “Places like Yosemite have been set aside for our generation, the next and the future,” he says. “If we have a true commitment to these sacred places, it’s critical we support organizations like Yosemite Conservancy.” ■

“Places like Yosemite have been set aside for our generation, the next and the future.”

— DR. GARY FLASHNER
Yosemite Conservancy Donor

ABOVE Conservancy donor Dr. Gary Flashner has shared his love for the Sierra Nevada wilderness with children, Katie and Matt. **RIGHT** While raising his family in Yosemite, Gary got to enjoy the park in every season — and grew inspired to give back.



PHOTOS: © GARY FLASHNER.

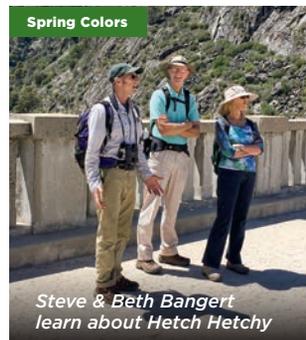
Donor Events & Activities

THE JOHN MUIR HERITAGE SOCIETY is a community of generous Yosemite Conservancy supporters who have demonstrated a strong commitment to protecting and preserving Yosemite for future generations. With your annual gift of \$1,000 or more, you join the influential group of Conservancy donors responsible for the completion of many critical projects in the park each year. Support at this level has tremendous impact, and your leadership gifts enable Yosemite Conservancy to truly make a difference in the park. Join now, and enjoy benefits such as invitations to exclusive events with park staff, an insider's view of the park, special recognition, and a community of like-minded individuals.

For more information about the John Muir Heritage Society or events, please contact Kim Coull at **415-434-8446 x324** or kcoull@yosemiteconservancy.org



Spring Colors
Ackerson Meadow hike led by naturalist Dan Webster



Spring Colors
Steve & Beth Bangert learn about Hetch Hetchy



Comstock Wines
Jerry Edelbrock, Polly & Ward Wolff



Northern California Luncheon

Robert & Roberta Geering with Justin Fey



Northern California Luncheon

John Houghton & Patti Johns Eisenberg



Spring Gathering

Ron & Ann Berg



Spring Gathering

David & Shirley Reha

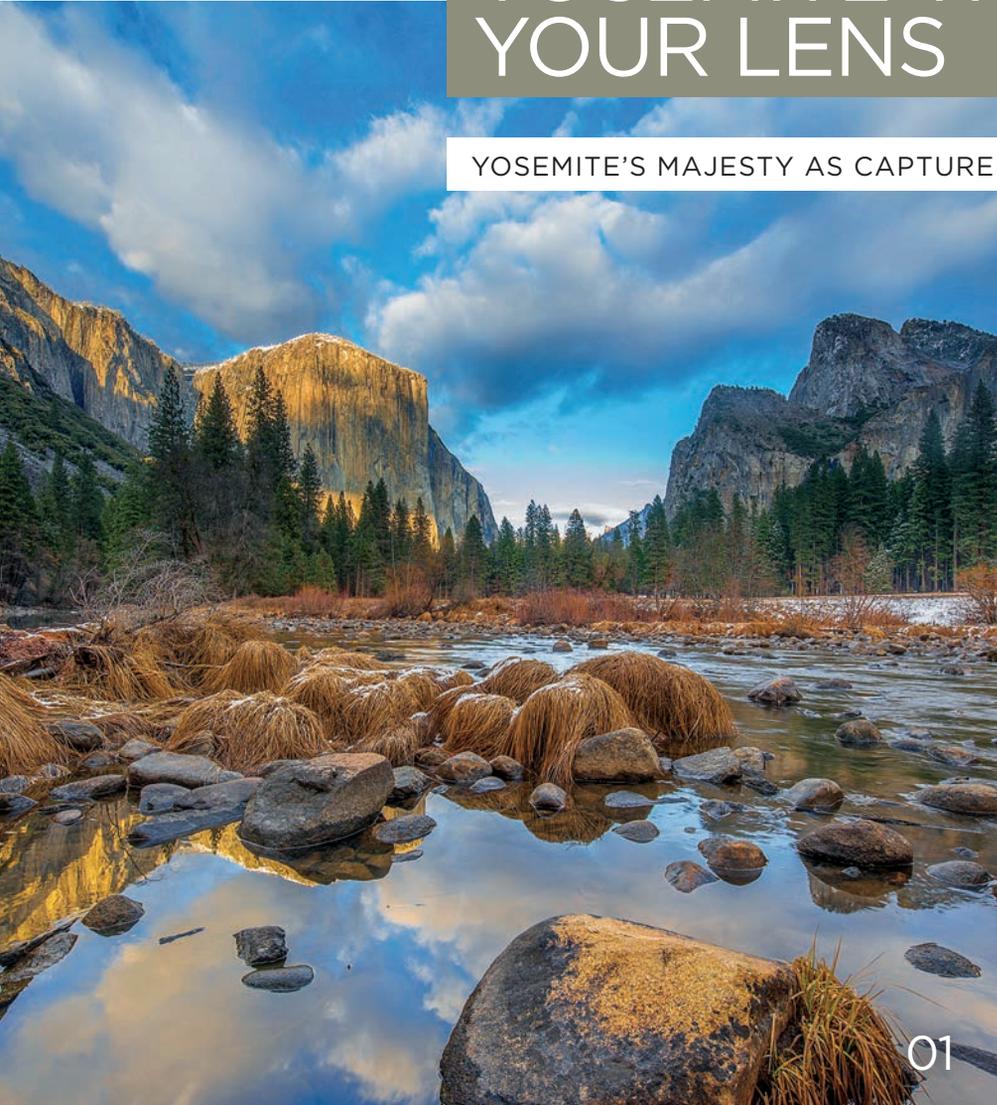


Spring Gathering

Kerstin Edgerton, Sy Kaufman, Bonnie Gregory & Sharon Pillsbury

YOSEMITE THROUGH YOUR LENS

YOSEMITE'S MAJESTY AS CAPTURED BY OUR SUPPORTERS



01 Valley View in the Winter

PHOTO BY © REETOM HAZARIKA

02 Dusted Dogwoods

PHOTO BY © DAVE WEBER

03 Clean Bobcat

PHOTO BY © KIEL MADDOX

04 Dewey Point

PHOTO BY © ROWENA LUBO

Share your Yosemite photos with the Conservancy!

Join us on Flickr, and tag your favorite photos with #yosemiteconnect. Our staff chooses photos to print in each issue of Yosemite Conservancy, as well as selected "Photo of the Month" images on our website and in our newsletter.



Join Yosemite Conservancy via social media and share your favorite Yosemite pictures, or email your photo submission to community@yosemiteconservancy.org



YOSEMITE CONSERVANCY

Magazine of Yosemite Conservancy,
published twice a year.

EDITORIAL DIRECTOR

Jennifer Miller

ASSISTANT EDITOR

Claire F. Meyler

CONTRIBUTING WRITERS

Frank Dean Claire F. Meyler
Stephanie Eyes Gretchen Roecker
Mike McDonald

DESIGN

Eric Ball Design

PRINT PRODUCTION

TradeMark Graphics, Inc.

STAFF :: San Francisco

Frank Dean, *President & CEO*
Jerry Edelbrock, *Vice President, CFO & COO*
Kim Coull, *Development Director*
Edin Draper-Beard, *Executive Affairs Manager*
Kevin Gay, *Finance Director*
Jamie Lilly, *Events Director*
Debra Holcomb, *Planned Giving Director*
Sara Jones, *Institutional Giving Officer*
Holly Kuehn, *Development & Donor Services Assistant*
Isabelle Luebbers, *Annual Giving Director*
Claire F. Meyler, *Communications Manager*
& Webmaster
Jennifer Miller, *Marketing & Communications Director*
Eryn Roberts, *Data Services Assistant*
Gretchen Roecker, *Communications & Social Media Manager*
Jonathan Roybal, *Major Gifts Officer*
Kiely Smith, *Data Assistant*

STAFF :: Yosemite

Adonia Ripple, *General Manager, Yosemite Operations*
Greg Archer, *Valley Sales Supervisor*
Nicole Brocchini, *Museum Store Supervisor*
Kylie Chappell, *Outdoor Adventures Coordinator*
Pete Devine, *Resident Naturalist*
Teresa Ellis, *Sales Information Assistant*
Schuyler Greenleaf, *Projects Director*
Suzy Hasty, *Volunteer Program Manager*
Cory Jacobs, *Inventory Coordinator*
Ryan Kelly, *Projects Coordinator*
Olotumi Laizer, *Valley Complex Supervisor*
Katie Manion, *Retail Operations Manager*
Cassie May, *Outreach & Wholesale Coordinator*
Michael Ross, *Naturalist*
Angela Sberna, *Accounting Director*
Mark Scrimenti, *Lead Wilderness Reservation Assistant*
Shelly Stephens, *Inventory Manager*
Laurie Stowe, *Wilderness Programs Manager*
Samantha Walsh, *Yosemite Art Center Coordinator*

STAFF :: Southern California & National

Patti Johns Eisenberg, *Major Gifts Officer*

Autumn.Winter 2016 :: Volume 07. Issue 02 ©2016

Federal Tax Identification No. 94-3058041



**YOSEMITE
CONSERVANCY.**

Ways to Give

THERE ARE MANY WAYS you and your organization can support the meaningful work of Yosemite Conservancy. We look forward to exploring these philanthropic opportunities with you.

CONTACT US

Visit

yosemiteconservancy.org

Email

info@yosemiteconservancy.org

Phone

415-434-1782

Mail

Yosemite Conservancy
101 Montgomery Street, Suite 1700
San Francisco, CA 94104

Fax

415-434-0745

INDIVIDUAL GIVING

Development Director

Kim Coull
kcoull@yosemiteconservancy.org
415-434-8446 x324

Annual Giving

Isabelle Luebbers
iluebbers@yosemiteconservancy.org
415-434-8446 x313

Major Gifts – Northern California

Jonathan Roybal
jroybal@yosemiteconservancy.org
415-434-8446 x318

Major Gifts – Southern California & National

Patti Johns Eisenberg
peisenberg@yosemiteconservancy.org
626-792-9626

FOUNDATIONS & CORPORATIONS

Sara Jones
sjones@yosemiteconservancy.org
415-434-8446 x328

PLANNED GIVING & BEQUESTS

Debra Holcomb
dholcomb@yosemiteconservancy.org
415-434-8446 x319

HONOR & MEMORIAL GIFTS

Isabelle Luebbers
iluebbers@yosemiteconservancy.org
415-434-8446 x313

GIFTS OF STOCK

Eryn Roberts
stock@yosemiteconservancy.org
415-434-8446 x330

SEQUOIA SOCIETY MONTHLY GIVING

Isabelle Luebbers
iluebbers@yosemiteconservancy.org
415-434-8446 x313

MATCHING GIFTS

Isabelle Luebbers
iluebbers@yosemiteconservancy.org
415-434-8446 x313

VOLUNTEER OPPORTUNITIES

Suzy Hasty
shasty@yosemiteconservancy.org
209-379-2317
yosemiteconservancy.org/volunteer



Yosemite Conservancy
101 Montgomery Street, Suite 1700
San Francisco, CA 94104

Follow the Conservancy on
social media to stay in touch on the go.



PHOTO: © KEITH WALKLET.

How will you remember **Yosemite?**

Yosemite's natural wonders are not only our inheritance, but also our responsibility. Your legacy gift to Yosemite Conservancy makes a lasting impact beyond your lifetime, commemorating your special connection to Yosemite while ensuring the park remains a beloved treasure for future generations to enjoy.

To learn how you can leave your legacy to Yosemite, contact Debra Holcomb at dholcomb@yosemiteconservancy.org or **415-434-8446 x319**.

yosemiteconservancy.org/plannedgiving

