

# QUARTERLY

Winter 2019



# A CITY GIRL'S LIFE IN THE ROCKY MOUNTAINS by Joanna Stensland

"Oh no! Cows!" I froze on the spot. Then, as if on cue, the cows all turned to stare ominously at me and my husband Erik as we walked along the Black Canyon Trail through McGregor Ranch. "I can't do it!" I categorically told my long-suffering companion of many years. "There's no way I'm walking by those cows!" I can't remember if Erik sighed or laughed — or both — but he encouraged and cajoled me, eventually persuading me to follow him along the trail, shaking his head at my shrieks every time a cow approached.

In case you hadn't figured it out, Isabella Bird I am not. I don't venture out on horseback into uncharted wilderness in snowstorms. I don't spend winter (or any time at all) in a frigid cabin with no heat and barely any food. I don't go

where no British woman has gone before. And this city girl certainly doesn't go near cows or other large mammals. The only thing Isabella and I have in common is our homeland. Well, almost the only thing: We have both been practically carried up Longs Peak, and we both share a love of nature and wilderness. Yep, you heard that correctly. This city girl who's afraid of cows really does love the wilderness. (If you haven't heard of the exceptional Isabella Bird, I highly recommend you read A Lady's Life in the Rocky Mountains).

It has been a long process, that of learning to appreciate nature. I grew up in a row house in a city in the south of England. There was a factory at the end of our street, and trains passed nearby several times a day. As kids, we played hopscotch for entertainment or rode our bikes up and down the sidewalks. The only bit of nature was the little rose garden my dad planted outside our house. Our city, like

many English cities, was surrounded by a greenbelt preventing expansion beyond the city limits, which meant we were never far from England's green fields and woods. Yet as a young teen I didn't appreciate my proximity to them. I just remember forced marches through the muddy countryside (my parents called them fun outings) and the boredom of being without my friends and record player. I didn't know what I know now, that nature had been offering me a great gift, and that little by little it would have given back to me what I would lose of myself each day in the struggles of daily life. And that it would have nurtured me and fed me. But I was too distracted and too stubborn to receive it.

Fast-forward a couple of decades. I had now spent several years living and working in different European capitals where I had enjoyed all the buzz and amenities the city had to offer. In 1994, soon after the totali-

(City Girl continued on page 12)

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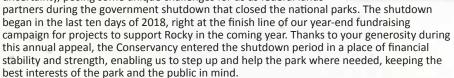
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Dear Friends,

Happy New Year! Here at the Conservancy and in Rocky Mountain National Park, the new year has started with some turbulence and uncertainty, posing some unique challenges for us as federal lands



We are very pleased to be assisting the park by opening the Fall River Visitor Center to the public while the park is closed. As an independent 501(c)3 that receives no federal funding to support our operations, and with our well-trained clerk staff, the Conservancy is uniquely qualified to assist the park in this way at this visitor center that is funded by Conservancy supporters. Unfortunately, we do not have the same infrastructure and ability to operate our Nature Store at the closed Kawuneeche Visitor Center or at the closed Beaver Meadows Visitor Center, nor at our other partner sites, such as our neighboring national forests, Bureau of Land Management in Wyoming, or Florissant Fossil Beds National Monument.

Certainly, garbage and human waste in the national parks have been the most headlining issues during this federal shutdown, but there are countless other invisible effects in Rocky as well. Research projects, some with time-sensitive data collection, have come to a stand-still, with data gaps that will be irreplaceable. Burn-piles of hazard fuels in the park stand untorched in the perfect burn conditions that have graced the first few weeks of the year. Some of the park's education interns have arrived for their season in Rocky, only to discover that their supervisors have been furloughed and the park's education programs have been halted. Field Institute programs have been cancelled due to unplowed and closed park roads. A youth corps project to build new park housing through a partnership between the Conservancy and the Larimer County Conservation Corps has come to a standstill with no NPS staff to supervise.

When the park reopens and the rangers and park volunteers return to their duties, the Conservancy will be ready to help, and to assist them with funding gaps from lost fee-revenue and other costs of the shutdown. Many of you have contacted us about ways to help the park during this time and it has been a real gift to connect with you and share the appreciation we have for Rocky.

May this new year bring hope and light to the world, and may your personal resolutions take you into the great outdoors more than ever this year. Enjoy these wonderful and wild places that your gifts and your membership help to steward every day.

Best,

Ester

Estee Rivera Murdock

Executive Director





Conservancy volunteer Ruth Hess. She was a gem. We will miss her something fierce.

# In Memorium: Conservancy Volunteer Ruth Hess (1927–2018)

With great sadness, the Conservancy reports the passing of longtime volunteer (and so much more) Ruth Hess of Loveland, Colorado.

Ruth volunteered for the Rocky Mountain Conservancy Field Institute for

more than 20 years. She spent about 416 hours each year to keep the field institute running, from answering phones to filing paperwork, sharing information with the public, and logging statistics and analytics. Additionally, Ruth was a staunch supporter of the Conservancy's mission to partner with Rocky Mountain National Park. A journalist by trade, Ruth graciously shared her supreme copyediting skills, and her tireless devotion to quality writing and publications.

Recently, Ruth's dedication was celebrated by the Estes Park Philanthropy Day organization in Estes Park, on November 15, 2018. National Philanthropy Day in Estes Park is an annual event to recognize the nonprofits, volunteers, foundations, funders, businesses, and community members who give of their time, talent and treasure to support the many worthy causes in the Estes Park community. Ruth received the Enduring Service Award at this event.

We at the Conservancy knew Ruth to be a gentle soul with an iron backbone. At almost 92 years of age, Ruth drove up the Big Thompson Canyon every week to volunteer for the Conservancy and to help out at a nearby lodge. She hiked or snowshoed every week in the park in every season, and she loved to explore new places and travel the world with her friends. She loved peanut brittle. And she loved Rocky Mountain National Park. She couldn't get enough of peoples' stories, their lives and their concerns. She gathered people to her and kept them close with her attentiveness and her ready smile. Her funny bone was easily tickled, and her memory was the stuff of legends.

#### Cover photo

Winter-phase Ptarmigan,Conservancy Member Putney Nature Images, Longmont, CO

Photos are always appreciated! Scenery, wildlife and wildflowers greatly enhance this publication, so get out there and take a hike

Please send high-resolution images to nancy.wilson@ RMConservancy.org by March 1 for publication in the 2019 Spring Quarterly.

Thank You!

## **Ask Nancy**

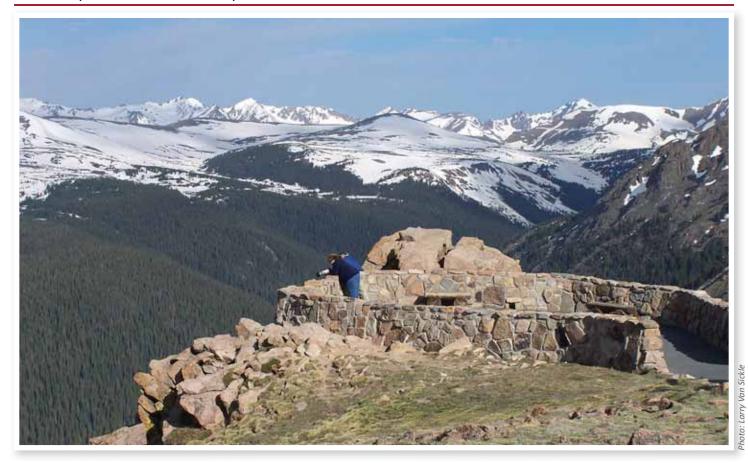
Quarterly Editor Nancy Wilson attempts to unearth answers to any questions asked by Conservancy members and park visitors. If you are curious about something in or about the park, email nancy.wilson@rmconservancy.org or write: Nancy Wilson, Rocky Mountain Conservancy, PO Box 3100, Estes Park, CO 80517.

How much influence does the park have when it comes to federal decisions that would have an impact on it? The parks can have some influence over federal decisions, more likely when the decisions are specific to the National Park Service (as opposed to broader decisions affecting all agencies within the DOI, or all federal agencies). There is no exact formula or occasion that prescribes how or when this influence may occur. For example, last year when there was a proposal to dramatically increase the annual visitor pass fee at Rocky and 16 other National Parks from \$35 to \$70, many parks and their partners weighed in on that proposal, which ultimately resulted in a \$5 increase instead. There are other decisions that are made without input from the parks. Every situation is different. — RMNP Superintendent Darla Sidles

Is it possible to hike all of the peaks of the Never Summer Range in a single shot? If so, Is there an official name for this hike? To our knowledge, there have been only a few of the park's seasonal staff who have hiked "all" of the Never Summer Mountains in one summer season, but not all in one trip. At the most, these folks could hike three peaks in a day, but there are no trails to any of the mountaintops, and they all require lots of scrambling in scree. Additionally, some areas in this range are extremely exposed, and most of them are accessed from the western slope of the mountain range, near Rand or Gould, CO, because the east faces in Rocky are so steep. — RMNP Colorado River District Interpretive Ranger Maci MacPherson

Geologically, what made the west side of the park so different from the east? The west side of the park is distinguished by the remains of ancient volcanoes in the Never Summer Mountains which erupted from 29 to 24 million years ago, sending flows, rock fragments, and ash down their slopes to form what are called "composite cones" or stratovolcanoes. Deposits from the side of one of these cones are exposed along the highway north of Milner Pass. The volcanoes themselves have been eroded away, exposing intrusive igneous rocks formed from cooling of magma chambers that fed the volcanoes. Red Mountain, visible from Farview Curve, is a good example of one of these magma chambers. The mountain is red because mineralizing fluids deposited pyrite (aka. fools gold, iron sulfide) in the rock. Pyrite oxidizes red when it is exposed to air by weathering and erosion. Superhot ash flows spread far beyond volcanic cones themselves. Large quantities of ash are erupted into the stratosphere, forming a cloud that collapses and flows down the slopes of a volcano and beyond at high speed. Upon reaching the bottom of the slope, ash pours down valleys that lead away from the volcano. One such ancient valley full of ash is exposed in the wall of the Lava Cliffs south of the Alpine Visitor Center. The Lava Cliffs are not really lava, but densely welded volcanic ash. After the ash flow stopped, the inside remained hot, partially melting glassy pumice and shards, forming a rock called "welded tuff." The top and bottom of an ash flow insulates the inside, so that the inside is the most densely welded part. Volcanic ash probably once blanketed much of the park but has since been removed by erosion. No volcanic ash remains on the east side. The middle and eastern parts of the park are underlain by granitic rocks and schists formed 1.4-1.7 billion years ago, long before the volcanic rocks on the west side. Granitic rocks formed from very large magma chambers in the earth's crust about 5-15 miles below the surface. You can recognize granitic rocks by their medium-to-coarse grain size, pale pink and white feldspar, gray quartz between feldspar grains, and have the tendency to break into chunks. The granitic magmas never rose to the surface to erupt as volcanoes, although they may have provided a deep source for magmas that did. The magmas intruded and engulfed clay-like and sandy rocks, heating and recrystallizing them to form schist. You can recognize schist as a dark mica-rich rock that cleaves into thin, plate-like fragments. — U.S.G.S. Scientist

Emeritus and Conservancy Field Institute Instructor Dr. David Lindsey



## Rocky Mountain National Park Sound Library Becomes a Conservation Tool

by Jacob Job

Situated in a small, dimly lit basement room on the campus of Colorado State University is a pretty special place. There's nothing instantly compelling about the room, except that it's full of computers and students, yet it is nearly silent. Why is it so quiet? Well, it's not really, but you have to slip on a pair of headphones to understand what's really going on.

Inside the Listening Lab, thirteen undergraduate students work together to help national parks like Rocky Mountain National Park keep the sounds of wilderness as natural as possible by monitoring the presence and extent of noise pollution. They do this by listening to thousands of hours of audio recordings that have been captured in some of the most remote locations in parks across the country. From these recordings, the students build a database of the types of sounds that they hear, including natural sounds such as wind, rain and birds, as well as human-associated noises, such as vehicles, aircraft and trains.

Together, natural sounds and noise come together to produce what is known as a soundscape. The soundscape of a place can tell parks and scientists a lot about the health of that place, including which species are present, when they are present, and what types of noise pollution might be interfering with their daily lives.

This information is exactly what the students in the Listening Lab have uncovered over the past five years, and it's providing parks with a valuable service that helps with the conservation of natural park soundscapes for the benefit of wildlife well-being and visitor enjoyment.

Dr. Jacob Job is the manager of the Listening Lab and a member of the Sound and Light Ecology team, which is a cooperative venture between the Fish, Wildlife, and Conservation Biology and Biology

departments of Colorado State University and the Natural Sounds and Night Skies

Division of the National Park Service. While Job oversees the work of the undergraduate students, he also has worked to extend the use of audio recordings as a conservation tool to help advocate for and preserve natural sounds and soundscapes.

In 2015, Job began work on the Rocky Mountain National Park soundscape

project. The project ini-In essence, Job is creating a collection of sounds that acoustically define Rocky Mountain National Park as a whole. ... It's slowly becoming clear that compelling audio recordings can be used as effective conservation tools.

tially began as an attempt to gather high-quality recordings of the songs of all of the breeding songbirds of the park in anticipation of shifting summer ranges, and potential species disappearance due to climate change-induced habitat loss. According to National Audubon Society's 2015 Birds and Climate Change report, half of Rocky's songbirds are threatened by climate

change. To date, Job has recorded more than 60 of the park's 88 breeding songbirds along 200 miles of trails. He has also learned that the areas that produce the most birds and greatest variety of birdsong are low elevation, riparian zones such as those found in Hollowell Park, Moraine Park, Upper Beaver Meadows and Endovalley.

In 2016, Job realized he was missing a greater opportunity to advocate for park soundscapes in the big picture by just focusing on individual components such as singing birds. Eventually, in addition to his continued birdsong work, he began recording entire park soundscapes and interesting acoustic events, such as dawn choruses, thunderstorms, and the yearly fall elk rut.

In essence, Job is creating a collection of sounds that acoustically define Rocky Mountain National Park as a whole. And more importantly, he is allowing people from across the country, regardless of whether they are able to actually visit the park, a chance to experience the wild that Rocky has to offer just by putting on a pair of headphones. Job hopes that these recordings will trigger positive memories and emotions associated with visits to Rocky or similar places, and that this connection will inspire heightened conservation advocacy by many different groups of people. All of the bird and soundscape recordings from the park can be found in a newly released audio library on the park's website at www.nps.gov/romo/ learn/photosmultimedia/soundlibrary.htm.

Since the beginning of his recording work in Rocky, other parks, such as Yellowstone, Sequoia, and Kings Canyon National Parks, as well as Lewis and Clark National Historical Park, have asked Job to conduct similar work. These parks have used these recordings to produce sound libraries similar to Rocky's, a short video highlighting natural sounds, and interactive story maps that allow visitors to explore the sounds of a park while reading about their importance and what they can tell us. It's slowly becoming clear that compelling audio recordings can be used as effective conservation tools.

To learn more about the Listening Lab, Dr. Job's recording work, and other research and outreach efforts of the Sound and Light Ecology Team, visit their website at www.soundandlightecologyteam.colostate.edu. To hear recordings from the parks where Job has worked, as well as soundscapes from other wild places across the country and world, visit his personal recordings page at www.soundcloud.com/gaviaimmer.

# Changes in RMNP Backcountry Camping Fees In Effect for 2019

Effective for the 2019 summer season, the cost of obtaining a permit for backcountry camping in Rocky Mountain National Park will increase from \$26 to \$30 per trip. This administrative permit fee, established in 1995, was last increased to \$26 in 2015.

Permits for backcountry camping are an integral part of a program that rations and distributes use throughout the park's backcountry. Permits are intended to help provide a quality experience, minimize impacts to resources, and ensure that sites are available for those who plan ahead and reserve a permit in advance. While an overnight permit is required for backcountry camping year-round, the fee for obtaining the permit only applies for camping that occurs during the months of May through October when demand typically exceeds availability in many areas of the park's backcountry. The four-dollar increase for the nonrefundable permit becomes effective March 1, 2019.

Different from an entrance fee or fee for camping in a developed campground, the backcountry permit is based on cost recovery, and all funds are applied directly to the costs of administering the program.

According to Superintendent Darla Sidles, "Rocky Mountain National Park retains one hundred percent of the administrative fees charged for backcountry camping permits. In addition to providing the opportunity to reserve and secure campsites in advance, funds recovered through the permit fee allow for staff to provide trip planning advice and information for a safe and enjoyable trip into the wilderness. Requirements for food storage necessary to protect bears and other wildlife, mountain weather, hazards, and Leave No Trace ethics are among the information received during the permitting process." For further information about Rocky Mountain National Park, visit www. nps.gov/romo or call the park's Information Office at (970) 586-1206.



#### Conservancy Educational Adventures 2019: New Programs!



With summer just around the corner, the Rocky Mountain Conservancy-Field Institute is primed for another season of educational adventures in Rocky Mountain National Park!

#### Wildlife of Rocky: An Educational Adventure by Bus

Dates: June 20, 27; July 11, 18, 25; August 1, 8, 15, 22, 29

Rocky Mountain National Park is a beautiful place teeming with wildlife, but it's easy to forget about the inhabitants that make this area so unique. Join our naturalist-guide on a 14-passanger minibus or 12-passenger van as we seek out the critters of RMNP. Spend an evening in the park's breathtaking locations — Horse-shoe Park, Alluvial Fan, Moraine Park, and more — learning about the wildlife that make this region so fascinating.

#### **Estes Valley: History & Historic Sites**

Dates: May 18, 31

Instructor: Curt Buchholtz

Enjoy an overview of the region's past through a mix of brief lectures and discussions with visits to historical sites of significance. Sites will range from an ancient Indian battlefield to early homesteads, and from stately resorts to deserted cabins. Examine numerous historical sites in the Estes Valley to discover the outlines of settlement and change. More than just a historical tour, this experience will bring a greater depth of understanding for this area.



#### 2019 Field Institute Catalog

Need a catalog to choose great classes in Rocky Mountain National Park? Send us an email at: info@fieldinstitute.org
or call us at 970-586-3262.

Learn more at: RMConservancy.org Or, call 970-586-3262 for more information

#### Beginning Digital Photography: Learning the Basics

Dates: May 30-31 Instructor: Eli Vega

In this highly interactive course, learn the basics (and beyond) of digital photography. Explore the dials and buttons on your camera, those mysterious menu items, f-stops, shutter speeds, exposure, and how they all work together. Learn about ISO and white balance, different types of lenses, and composition. Find the #1 solution to the #1 problem in photography, and much more! Plan to spend one day inside, and the second day out in the field in Rocky Mountain National Park.

#### For Kids!

#### **Tribes & Traditions: Native Americans in RMNP**

Dates: July 25; August 8 FREE for children ages 8-12

Long before us, Native Americans called this place home. Experience a fun exploration through time to learn what life was like for the Native children that lived in this area long ago. Learn how the people started their day, what they ate, and about some of their daily chores. A few of the games that some of the earliest settlers loved will also be enjoyed. Participants will learn which native people once lived in what is now Rocky Mountain National Park, and what life was like for these people long ago, as well as today.

# Antibiotic-resistant Bacteria: Resistance in Rocky

Date: July 27

Instructor: Laura Scott

Antibiotic-resistant infections are an imminent threat to human health. Could these bacteria be lurking in environments as pristine as Rocky Mountain National Park? What factors might cause them to be there? Delve into these questions and the implications of this research. Study basic microbiological field and laboratory techniques, and collect and analyze soil and water samples for antibiotic-resistant bacteria.

## Meet Michael Allen, Conservancy Philanthropy Director

The Conservancy is pleased to introduce one of our newest staff members, Michael Allen, as the new philanthropy director for the organization. With more than 10 years of development experience, Michael joins the Conservancy from the world of climbing advocacy and conservation. In his previous role at the Access Fund, a national membership organization for rock-climbers, Michael raised funds to keep climbing areas across the Unites States open and conserved.

Michael grew up in the flatlands of

Oklahoma until wanderlust brought him to the Rocky Mountains in search of adventure. He explores his outdoor passions through rock-climbing, adventure travel and photography. Michael is an accomplished landscape photographer, and hunts for dramatic landscapes all over the world, including far-flung places like Iceland, Norway, and most recently, the Canadian Rockies. We are excited to add his experience and passion for wilderness conservation to the Conservancy's team.



#### Park Puzzler

#### by RM Conservancy Member Joel Kaplow

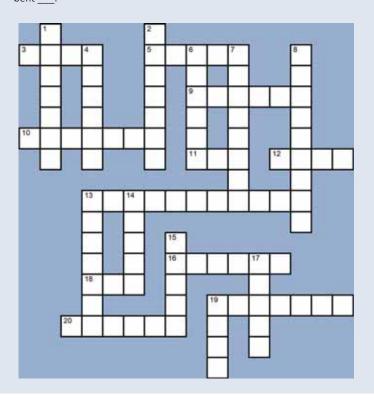
#### Across

- 3 Longs Peak's summit presents itself as about \_\_\_\_ acres of surprisingly flat terrain.
  Once upon a time, it was part of a vast rolling plain which has mostly eroded away.
  5 This year, the Conservancy's \_\_\_ Improvement Fund donations will be directed toward improving the heavily used paths at Lake Haiyaha, Dream Lake, Adams Falls and elsewhere.
- **9** If you're hiking in the subalpine/alpine ecotone (transition zone) and notice trees with branches growing on just one side of the trunk, it's a clue that the prevailing winds come from the opposite direction. These oddities are known as \_\_\_\_ trees.
- 10 One versatile category the Conservancy has for donations is "\_\_\_," which gives them the flexibility to channel funding for Rocky projects at their discretion, to wherever they feel it's needed the most. (2 wds)
- 11 Hold on to your hat winds at the top of Longs Peak have been clocked at over \_\_\_ hundred miles per hour!
- **12** Rocky's yellow-bellied marmot moms will typically give birth to a litter of three to eight young. What are these tiny tots called?
- **13** Chinooks are warm, dry winds that can cause the temperature to rise tens of degrees in a few hours. Known as "snow eaters," they don't just *melt* snow, but also change it directly to water vapor, skipping the liquid state. Is this process known as: subjugation, subrogation, sublimation or subnotation?
- **16** Thanks to generous contributions to the Conservancy, Glacier Basin Campground acquired bragging rights to a state-of-the-art solar last year!
- **18** If you want to personalize your Rocky Mountain National Park license plates, the number of characters allowed goes from six to seven, but at the sacrifice of the bull \_\_\_\_ emblem in the center.
- 19 Enos Mills' original dream was for RMNP to span the Front Range from Pikes
   Peak to the \_\_\_\_ border, but due to the power of mining, logging and ranching interests, the end product was whittled down to just the most scenic chunk of real estate.
   20 This year, the Conservancy Conservation Corp will focus on trail maintenance in Rocky and the Peaks Wilderness to its south.

#### Dowr

- 1 In the wild, a \_\_\_\_-year lifespan for the yellow-bellied marmot is considered a ripe old age.
- 2 Major \_\_\_ Long first observed the fourteener that would later bear his name while mapping the area to its east in 1820.
- **4** Yellow-bellied marmots spend about \_\_\_\_ percent of their lives underground, including seven to eight months of the year in hibernation.
- **6** To help popularize the Estes Park area in the 1870s, Lord Dunraven commissioned famed landscape painter \_\_\_\_ Bierstadt to capture its beautiful scenery on canvas.

- **7** An uptick in visitation occurred when a stage line was completed between and Estes Park in 1874.
- **8** Due to the misunderstanding of Colorado's drug laws, citations and arrests have risen in RMNP of late. \_\_\_\_ is legal in the state, but RMNP is on federal property, so no Rocky Mountain High here.
- **13** How many officially named peaks over 13,000 feet high reside in the park?
- **14** The common name for Rocky's elusive Ursus americanus is \_\_\_\_ bear, which is a tad misleading, as this critter can sport brown, blond or cinnamon fur.
- **15** The \_\_\_\_ is considered to be the most widespread tree in North America, as the vast area between Alaska and Arizona is its home.
- 17 At least five major ice ages have come and gone, the last being the Pleistocene \_\_\_\_ which ended about 12 thousand years ago, leaving behind the wonderfully ice-sculpted terrain of RMNP.
- ${\bf 19}\,$  At the subalpine/alpine ecotone, you will encounter shrubs and trees that look like they're having a hard time and at that elevation, they are! You are among krummholz, a German term that translates to "twisted or bent …"



#### Who, if not us?

# Leave a Legacy for Rocky Mountain National Park

Some of us may never summit the highest peaks in Rocky, or hike all 350 miles of trails in the park. But there are other ways to become part of the story of Rocky Mountain National Park. Planning a deferred gift to the Rocky Mountain Conservancy in an easy way to establish your own legacy of conservation, and give back to the wilderness experience of Rocky Mountain National Park.

# Here are some common planned-gift scenarios that support the park:

- ➤ Leave assets to the Conservancy in your will or estate plans. Our staff can provide you with sample language to amend your will.
- ➤ Name the Conservancy as a beneficiary of your life insurance, retirement plan or annuity.
- ➤ Establish a charitable trust to provide the Conservancy with income now, and later, you can either return assets to your heirs or pass them along to the Conservancy to make a legacy gift.

We invite you to contact us and learn about some of the ways you can leave assets, retirement income, or a portion of your estate to the Conservancy. We are ready



to help you identify and craft a plan to ensure that your legacy gift is invested in the Conservancy's mission, according to your personal and philanthropic goals.

If you've included the Conservancy in your estate plans — at any amount — please let us know. We would love an opportunity to acknowledge your commitment, and simply pay tribute to those who give with an eye to the future. We also honor anonymous gifts.

Making a planned gift to the Rocky Mountain Conservancy helps to ensure that the vitality and preservation of Rocky lives on — and that our beloved park remains protected and conserved for the next generation.



Conservancy Executive Director Estee Rivera Murdock met with Nature Store Clerk Pat Washburn to give her this stunning Erik Stensland photo plaque in honor of her tenure with the Conservancy.

# Conservancy Recognizes Pat Washburn's Years of Service

The Rocky Mountain Conservancy is delighted to recognize Pat Washburn for her 25 years as a sales clerk for Conservancy Nature Stores in park visitor centers. Much of her service has been based out of Moraine Park Discovery Center Nature Store in Rocky Mountain National Park.

A summer resident of Estes Park since 1970, Pat carries a great deal of Estes Park history with her. Pat spent her early summers in Estes Park where her grandparents, Joe and Ethel Mills, had built their dream — Crags Lodge. Their daughter Peg married Dorr Yeager, the first ranger at Rocky Mountain National Park, and the founder of the Rocky Mountain Conservancy (née Nature Association) in 1931.

An annual celebration dinner was held at the YMCA in October to honor Conservancy staff for various levels of tenure with the organization, and photographic plaques created by local photographer Erik Stensland were given as gifts.



Completed bike trail along east shore of Shadow Mountain Lake Photo: NPS

#### by Doug Parker, RMNP Trails Supervisor

Just on the edge of the town of Grand Lake lies the East Shore Trail. It runs through the National Park, winding along the edge of Shadow Mountain Lake to the Green Ridge Campground to the south. In 2015, an Environmental Assessment was conducted that examined the suitability of mountain bike travel on this trail. Following a finding of "no significant impact," park managers decided to convert the existing trail into one suitable for mountain bikes. This marks a significant moment for bike riders as the first mountain bike trail in Rocky Mountain National Park (RMNP), and one of the first in the National Park Service as a whole.

RMNP Trail Crew employees partnered with the Headwaters Trails Alliance (HTA), a nonprofit advocacy organization for trails in Grand County to execute this project. Work began in earnest this past fall. Park trail workers, HTA affiliates, and volunteers

worked to fell dead hazard trees, improve the tread surface, build stone retaining walls, and reroute portions of the trail to more sustainable alignments. The goal is for the trail to be smooth, relatively flat, and comfortable for all skill levels to ride.

At this time, much of the work has been completed along the two miles of park-owned land. Trail Crew staff will return next fall, working from September through the end of October so as to limit impact to nesting osprey in the area. This phase of construction will focus on building raised wooden boardwalks that elevate the trail through two small wetland areas. Work is planned to be finalized around this time, with bikes officially allowed shortly thereafter.

When complete, the trail will allow riders from the nearby Green Ridge campground to travel into town. Alternately, Grand Lake residents will be able to enjoy a scenic lakeside bike ride along the edge of park wilderness.

# Rocky Converts East Shore Trail to Become the First Bike Trail in the Park



Bike trail corridor cleared to specs Photo: NPS



Grade reversals were constructed to minimize erosion. Photo: NPS



Finished trail tread

Photo: NPS



For a number of years, the Conservancy has offered members a few opportunities to volunteer in Rocky Mountain National Park. In 2018, the Conservancy ramped up this effort to include a full schedule of volunteer events, both for the general public and for local community organizations. This schedule included 14 volunteer events, nine opportunities for the public, and five days for community organizations and youth groups. Over the course of



these opportunities, the Conservancy was able to mobilize 335 volunteers, including 153 young people, in support of conservation projects in Rocky Mountain National Park and the Roosevelt National Forest. Projects focused on trail maintenance and construction, habitat restoration through invasive species removal, fire-fuels reduction, and litter cleanups. In total, the Conservancy supported 1,481 volunteer hours, which equates to more than \$36,500 of in-kind service (based on the independent sector value for volunteer time, https://independentsector.org/value-of-volunteer-time-2018/).

Each of these projects supports local land managers' missions to conserve the natural landscapes, while promoting public enjoyment of these protected areas.

Stay tuned to the Conservancy website for the 2019 Community Volunteer Stewardship Event calendar which will be posted in April 2019, to learn about opportunities and register for dates.

Trails projects help ensure that hiking trails are safe and sustainable by repairing trail surface, rebuilding or rerouting damaged areas, clearing trail corridors of fallen or encroaching vegetation, and mitigating erosional forces with the construction of drainages.



Habitat restoration fosters native plant growth and natural ecosystem function by removing invasive plants from the landscape.

#### Community Volunteer Stewardship Events in 2018

April 22 National Ocean and Science Bowl Service Day — Trails

May 19 Colorado Public Lands Day — Litter Cleanup

June 2 National Trails Day — Trails

June 26 East-Side Vegetation Project — Habitat Restoration

July 25 Colorado River District Vegetation Project — Habitat Restoration

August 5Poudre Wilderness Volunteers Project — TrailsAugust 25Founders Day/Rocky Mountain Rendezvous — TrailsAugust 26Rocky Mountain Rendezvous (Day 2) — Litter CleanupSeptember 8Nature Kids/Jovenes de la Naturaleza — Litter Cleanup

September 11 Day of Service and Remembrance — Fire Fuels September 22 National Public Lands Day — Litter Cleanup

September 28 Volunteer for Outdoor Colorado: CAIRN Youth Program — Fire Fuels

October 2

National Trails Act 50th Anniversary —Trails

October 16 Colorado State University: Conservation Leadership

through Learning — Trails

#### Thank you!

Fire-fuels reduction helps protect infrastructure, visitors, local communities, and firefighters by reducing the fuel load for future wildfires and creating a buffer zone around populated areas.



Litter cleanups help protect wildlife from ingesting or being affected by trash, and promote Leave No Trace ethics by encouraging visitors to properly dispose of waste.

#### Local and National Brands Show Support

In the midst of the government shutdown, local businesses are stepping up to help keep visitor centers open. Amy Hamrick, owner of Kind Coffee in Estes Park, donated \$2,100 to the Conservancy to help cover operating expenses for the Fall River Visitors Center. "As a business owner in Estes Park, I am exceptionally sensitive to the need for our visitors to have a point of contact during this government shutdown, which has cut off access to most of Rocky Mountain National Park. There is still so much for them to experience, and the Conservancy's role in keeping the Fall River Visitor Center open is integral to our success. And, as a personal supporter of the conservation and preservation of our public lands, I cannot thank the Conservancy enough for their role in sharing Leave No Trace principles while the park is unsupervised," said Hamrick.

Corporate partnerships are a growing form of support to the Conservancy. Some national brands that are looking to authentically appeal to their customers are increasingly partnering with the Conservancy to highlight their support for wilderness protection and conservation. The Conservancy benefits from not only cash, but also in-kind donations that can be used to support its mission in small but significant ways.

If your business is interested in partnering with the Conservancy, please contact Michael Allen, philanthropy director, at 720-845-5690.

(City Girl continued from page 1)

tarian regimes in Eastern Europe had fallen, Erik and I decided to move to a small town in the northern mountains of Albania to do what we could to help rebuild what 50 years of severe dictatorship had destroyed. I would jokingly tell people that to get there you had to take the road to the end of nowhere and then take a left — it felt so incredibly isolated and remote. Part of getting there involved a ferry trip down a gorgeous fjord-like canyon. I will never forget the first time

we traveled that river, stunned by the beauty, and feeling as though we were entering a magical, lost world. But even on this first ferry ride, when I saw people throwing their trash into this beautiful river, I got a glimpse of how humans can spoil the beauty they are given.

The town itself had little that was at-

tractive, but from the balcony of our crumbling apartment building, you could see mountains, the unique and impressive Dinaric Alps. My experience of mountains was limited up to that point, but here I was living right next to some stunning peaks. Each day, when I looked out and saw the snowclad summits, something began to stir in me. I longed to be out there among them and to experience their magnificence.

I met no argument in Erik, so as soon as we were settled, we set off on the potholed road out of town and headed toward the mountains. Even though the valley we were entering was, in many ways, storybook idyllic, we saw that some of the hillsides had been entirely denuded of trees, and the crystal streams carried bits of garbage along with them. There had once been bears and wolves roaming in these mountains, but the only animals here now were dogs and household chickens. It was sad and baffling. Why ruin such a paradise in this way? Of course, part of the explanation lay in the poverty and desperation the population had lived under for so many years. But it upset me. I would expend a lot of energy attempting to teach people why throwing refuse into the beautiful river was a



terrible thing, but they would just say, "It's a big river — one soda can isn't going to make any difference." But of course, one soda can *does* make a difference. One person trail-cutting *does* make a difference. One person feeding (or killing) the wildlife *does* make a difference. The effect of one person is multiplied again and again until

the beauti-

ful wilderness we so admire is changed, damaged and worn, no longer able to nourish us in the way our souls deeply crave.

In January 2004, after a decade in the Balkan peninsula, we moved to Allenspark, Colorado, then later to Estes Park, where we

experienced the great happiness of finding ourselves next to Rocky Mountain National Park. It seemed like we were the luckiest people alive, to be able to hike, explore, smell the pine trees, sit in silence with just the rustle of leaves to disturb us — all of this at any time we desired. We had been worn down in our non-stop work and the pressures of post-war Balkans. We had been exhausted by all we witnessed and the constant demands. Rocky Mountain National Park swept us into its embrace and whispered new life and strength into our spirits.

During the past 15 years, Rocky Mountain National Park has continued to nurture and restore us. But at the same time, we have seen the same attitude that we encountered in postcommunist

Europe now creeping into American society, that of taking our wilderness for granted. Instead of allowing nature to gently exist, we want to grab at it and use it. People say, "What difference will one piece of garbage make? What difference will it make if I feed just one pika? What difference will it make if I take a shortcut over the tundra? I'm only one person afterall, what harm can I do?" But one person is all it takes to start a chain of reactions that can cause irreparable damage. We have seen trails grow from two feet wide when we arrived 15 years ago to five feet wide or more today; human waste is everywhere; you can find candy wrappers deep in the forest; and the silence — that deep, restoring silence is now more elusive.

> But just as one person can cause long-lasting damage, one person can begin to heal and repair the wilderness they have been given. I may not be Isabella Bird. I may be just a transplanted city girl. But as one human being, I can bring positive change. I do it every time I pack out my trash and every time I choose to walk through the mud in the middle of the trail. I bring change whenever I am gentle and kind to the forest in which I quietly hike. And as I listen to the rustling of the trees, to the birds, to the sounds of the

marmots going about their day, and as I watch the eagle soar above the forests, Rocky Mountain National Park gives back to this city girl far more than she could ever have taken from it. It gives me back my soul.



The Rocky Mountain Conservancy expresses special thanks to the following people for their donations supporting Rocky Mountain National Park:

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Correction: The Nature Notes photo in the 2018 Autumn Quarterly erroneously identified the bull and cow moose as two cow moose. Also, photo credit should have been: Photo: Rocky Mountain Transit Conservancy member Rick Papineau. Linda and Howard Williams,
Colorado Springs, CO
Michael Williams, Highlands Ranch, CO
Nancy Williams, Seattle, WA
Betty Williamson, Longmont, CO
Dawn Wilson, Fort Collins, CO:
In memory of Richard Barberot, Jr.

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Joan and Bruce Winstein, Pak Park, IL:

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Ronald Wood, Fort Collins, CO
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In memory of Frank and Marion Yancik

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YourCause/Susan Bourque, Plano, TX
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Jenny and Gary Zittergruen, Van Horne, IA
Howard and Faye Zuckerman, Dexter, MI

#### All In Memory of Geri Stutheit

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Harold and Betty Asmus, Fort Collins, CO
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Guy and Wilma Mirich, Tempe, AZ
Paul Stutheit, Kremmling, CO
William and Eloise Tosch, Fort Collins, CO

#### PARK PUZZLER SOLUTION S TRAIL VE F E L 0 T G P BANNER E H E G BESTUSE TWO PUPS SUBLIMATION SHOWER C WYOMING INDIAN

# **Quick-Fix Science**

# Effects of Beaver Dams on Riparian Areas

# The Question: What is the role of beaver dams on hydrological processes in montane riparian areas?

Understanding the hydrological processes such as inundation and recharge of alluvial aquifers in riparian areas is key to proper management of rivers and watersheds. For example, these processes can influence biodiversity by providing wildlife habitat for a disproportionally large number of wildlife species (e.g. birds, butterflies, small mammals, insects, and amphibians). Biologists have long assumed that beavers (Castor canadensis) may influence hydrologic processes in riparian areas of rivers through the building of dams. Researchers conducted this study in order to test the assumption that beaver dams play an integral role in creating and maintaining healthy montane riparian areas.

The Project: Measure ground water flow patterns and levels before and after the breach/construction of two beaver dams. During the summers of 2002-2004, Cherie Westbrook and David Cooper (Colorado State University) and Bruce Baker (USGS) used 95 pipe wells to measure subsurface water flow patterns and water table fluctuations along a one-mile reach of the Colorado River containing two beaver dams. One of the dams was constructed in October 2003, and the other dam breached in May 2004, allowing researchers to take surface and subsurface hydrologic data in the study area in the presence and absence of beaver dams.



The Results: Beavers can influence hydrological processes in streams and valleys, thus creating flow patterns suitable for the formation and persistence of wetlands.

This study found that beaver dams strongly affect the hydrologic processes of the Colorado River and its floodplain and terraces near its headwaters. The beaver dams and ponds greatly enhance the depth, extent, and duration of inundation associated with floods. Additionally, the investigators found that beaver dams elevate the water table during both high and low river flows, and slow the decline of the water table during dry months. Unlike previous studies, the researchers found that the main effects of beaver dams occur below the dam and not just at the pond created by the dam. Overall this study confirms that beavers and their associated dams play an important role in the formation, function, and persistence of riparian wetlands.

For more information on the park's research program, visit www.nps.gov/romo.

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# Nature Notes

Winter in the high country of Rocky Mountain National Park is a season of extremes. From high winds that sweep us off our feet and sweep snow into steep drifts on the tundra, to balmy days just right for a nap in the sun. It's a time of subtleties, when wildlife is seen in tracks and scat left in the snow, and when morning skies bring colors so sublime 📽 In November, RMNP Woodcrafter Cory Johnson was closing up the park sign shop for the night when he heard a couple of great horned owls hooting outside. As he shut off the last light and stepped outside, an owl flew over the parking lot right over his head and landed in a tree on the corner of the building. It sat 20 feet up and hooted to the other owl in the distance for a few minutes before flying off **\*** RMNP Restoration Ecologist **Jim Bromberg** notes that winter is typically a time when most plants are dormant. But upon closer inspection, that's not always the case. For example, last winter, willows were producing catkins in December. It's sometimes hard to know what fluctuations in conditions might trigger a particular growth stage in plants outside of the typical growing season, but they all respond to varying amounts of light, temperature and precipitation. Be on the lookout, and with the right conditions you might just catch certain species of plants come out of dormancy again this winter "Driving to work one morning" in mid-December, Conservancy Publications Director Nancy Wilson was startled out of her morning daze by the flight of a large brown-and-white and white raptor flying about two feet off the hood of her car. The bird flew close enough to see the small, luckless creature hanging from the raptor's beak. That sure snapped her awake! 🏖 On a winter trek to Nymph Lake, retired RMNP Wildlife Biologist Gary Miller and family were scolded by chickarees, saw numerous snowshoe hare tracks, and spotted the large chunks of pine bark on the snow indicating American three-toed woodpecker activity. Gary also noted that although a beaver died from tularemia at Lily Lake late last summer (2018), there were fresh beaver cuttings this fall, which indicated either some survival or immigration following the mortality. That's good news! And the bighorn sheep of the Big Thompson Canyon appear to have had a good year, with a number of lambs and yearlings observed on multiple trips through the canyon 🌺 An Estes Park resident reported that as late as December 9, 2018, bear activity was evident around his bear-proof trash cans. This is the latest in the season that bears have been sighted in the area, and it was clear that the bear had given the trash cans a run for their money. Bears are not true hibernators, in that they are known to wake up during the course of the winter. This state

of denning is often referred to as "winter lethargy" or "winter sleep." 👺 Conservancy Membership Services Associate Alexis Arnold spotted a young darkgray Abert's squirrel sitting in a tree along the Lily Mountain trail in late fall. Fun fact: Abert's squirrels are ecologically and exclusively tied to the ponderosa pine ecosystem. Alexis also observed a gang of elk in Estes Park, just hanging around, with light sparring here and there. A magpie landed on one of the sparring elk and



This bighorn sheep yearling was spotted in the Big Thompson Canyon in early January sporting what looks like an umbilical hernia. Colorado Parks and Wildlife (CPW) Veterinarian Lisa Wolfe reported that the CPW has received a number of reports about it, and while they don't know how this will resolve itself, the sheep appears to be staying healthy — for now.

Photo: Conservancy members Kent and Carolyn Carlson

stayed on for the ride. Woohoo! Alexis lives in an area of Estes Park where wild turkeys congregate. One morning in early December, she woke to the cacophony of screeches and flutters that was the turkeys fighting. No gobbling there. A pragmatic magpie was spotted hunkered down and half-covered with snow in the top of a conifer one windy eight-degree morning in December in Rocky Mountain National Park An Estes Park resident witnessed two vehicles driving down Highway 36 behind the closed RMNP entrance gate by the Beaver Meadows Visitor Center during the government shutdown. She thought the park had reopened the road until she saw the vehicles dart across the meadow between Highway 36 and High Drive. As it happened, one of the cars got stuck in the grasses, and the witness was able to capture clear photos of the license plates, which she turned in to park law enforcement With road closures and snowy drifts in abundance, now is an exceptionally good time to start dreaming about and planning for your next visit to Rocky! Stay strong — spring is coming!