

**Explore**<sup>TM</sup>

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# Big Sky

Oct. 27 - Nov. 9, 2017  
Volume 8 // Issue #22

## Evolution of Gallatin Canyon

*New Custer Gallatin forest plan takes shape*

## What to do with Big Sky's wastewater

Business profile: Lone Peak  
Caregivers expands to Westfork

***LPHS volleyball, football teams  
look to rebound in playoffs***



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Oct. 27 – Nov. 9, 2017  
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**ON THE COVER:** Fall colors abound in this October scene looking south over Yellowstone National Park from the Gallatin National Forest on Eagle Creek Road. PHOTO BY DIANE RENKIN

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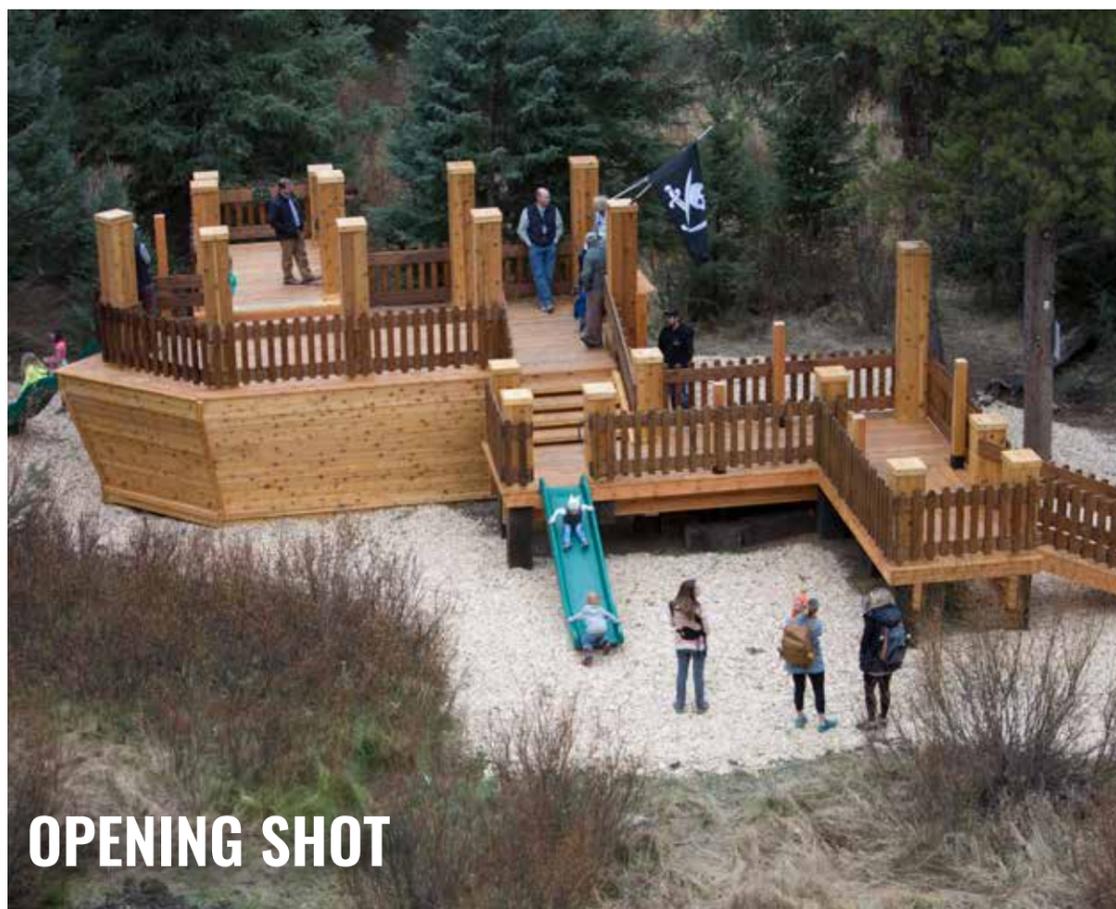
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## OPENING SHOT

Big Sky community members explore the new tree fort playground at Kircher Discovery Park, prior to Big Sky Community Organization's Oct. 25 ribbon cutting celebration. PHOTO BY BAY STEPHENS

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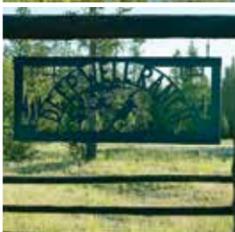
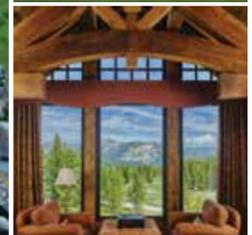
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## County to update emergency plans for wildfire, disaster response

EBS STAFF

BIG SKY – Gallatin County is in the process of updating its Hazard Mitigation Plan and Community Wildfire Protection Plan. Introductory meetings were held throughout the county between Oct. 12 and 24 and more in-depth meetings to discuss community concerns and desires will be held closer to February. A draft is anticipated in the spring and will be adopted next fall following approval by the Federal Emergency Management Agency.

The plans are countywide documents that outline actions to mitigate incidents like wildfire, flood or hazardous material spills. The CWPP is specific to wildfires and the plan directly impacts actions taken by the U.S. Forest Service.

Every five years, federal law requires that local governments update their HMP. The current plan was revised in 2012. The update process will also cover the CWPP from 2006, weaving the two hazard plans together.

Grants to help fund pre-disaster actions that mitigate threats, and funding to support recovery efforts are only eligible to areas that have hazard plans and have participated in pre-disaster efforts.

Director of Gallatin County Emergency Management Patrick Lonergan said at an Oct. 12 meeting in Big Sky that he hopes this new plan will go a step further than the 2012 plan that identifies county-wide hazards by also assessing hazard risk in specific areas within the county.

“We want to be able to identify what the top hazards are for Big Sky, what the top hazards are for West Yellowstone, for Bozeman,” Lonergan said, adding, “Now we need people from Big Sky to come in and say, ‘Well this is what matters to us.’”

*Visit [readygallatin.com/mitigation](http://readygallatin.com/mitigation) for more information on the hazard mitigation plan update.*

## Spanish Peaks Community Foundation grants \$59,000 in fall cycle Deadline for Moonlight Club Community Foundation is Nov. 15

EBS STAFF

Spanish Peaks Community Foundation completed its 2017 fall granting round on Oct. 1.

Beginning Oct. 23, specific entities receiving SPCF grants include the Arts Council of Big Sky, Big Sky School District, Big Sky Food Bank, Big Sky Discovery Academy, Big Sky Parent Teacher Organization, Casting for Recovery, Eagle Mount Big Sky Ski Program, Friends of Big Sky Education, Gallatin River Task Force, Montana Shakespeare in the Parks, Morningstar Learning Center, and Strings Under the Big Sky.

“It was great to see the determination process by the board of directors for this round,” said Tarsha Ebbert, the foundation’s executive director. “SPCF board members are very engaged in their community and their in-depth local knowledge really helps determine the immediate needs of Big Sky residents.”

The Moonlight Community Foundation is still accepting grant applications through Nov. 15. To apply, visit [moonlightcommunityfoundation.org/grants](http://moonlightcommunityfoundation.org/grants) or email [tarsha@moonlightcommunityfoundation.org](mailto:tarsha@moonlightcommunityfoundation.org).

*For more information about the Spanish Peaks Community Foundation visit [spanishpeaksfoundation.org](http://spanishpeaksfoundation.org).*

## Defining Big Sky’s DNA Visit Big Sky lays foundation for Tourism Master Plan

EBS STAFF

What is Big Sky’s DNA? That’s what 40 invited members of the Big Sky community attempted to uncover during an Oct. 18 brainstorming workshop, led by global branding consulting firm Destination Think!. The findings, which will also take into account the results of a public survey to be launched by Visit Big Sky in coming weeks, will form the foundation of a strategic plan to increase tourism to the area.

Senior Strategic Consultant Frank Cyper facilitated small break-out groups where attendees—tourism industry leaders, hospitality personnel, and key figures in politics, business, real estate development, arts, academia and recreation—were asked questions designed to distill Big Sky’s unique identity.

“It’s who you are, it’s what you love; it’s a sense of a place,” Cyper said. “And then, how you are projecting this to the rest of the world, and how it is being perceived?”

The playful approach started with yes and no questions and statements like, “Is Big Sky sexy?” and, “Big Sky is better than Jackson Hole,” followed by more involved questions such as, “What would the rest of the world miss if Big Sky didn’t exist?”

Visit Big Sky CEO Candace Carr Strauss said Big Sky’s identity must be refined before it can be successfully marketed as a tourism destination.

“If we don’t know who we are, how do we build a marketing strategy?” Strauss said, adding that the work they are doing with Destination Think! is essentially starting at ground zero. “[It’s figuring out] where we are, who we are, where we want to be—and how we get there.”

Visit Big Sky aims to have the Tourism Master Plan completed in February 2018.

## Ultra-exclusive ski area opens in Colorado

EBS STAFF

A new private skiing community has opened in Colorado’s San Juan Mountains, tucked between Telluride and Crested Butte. Taking the name Cimarron Mountain Club, this membership-based community will be reserved as a small and intimate club with only 15 memberships available.

Jim Aronstein, a former natural resources attorney and the man who started the vision, is working with Northview Hotels and Resorts to develop the property. The developers say that CMC is intended to be a wilderness refuge, and will retain a wilderness atmosphere without chairlifts or paved roads.

In the winter, the gravel roads will be groomed, but not plowed, meaning that access to CMC during the winter months will be via over-snow vehicles only. Members will need to use the club’s snowcats, snowmobiles or SUVs and passenger vans outfitted with snow tracks.

CMC will be a private ski area bigger than Aspen Mountain, offering 1,000 skiable acres with 1,640 feet of vertical terrain and more than 60 different ski runs. There is also skiing access on 950 acres of adjacent public lands and heli-skiing provided by a Telluride-based operation.

There will also be groomed cross country ski trails and fishing and mountain biking opportunities in the summer. Memberships for CMC are available starting at approximately \$3 million and three of the 15 available are already committed. CMC will open for the winter season in December 2018, weather permitting.



# There is a major branding campaign underway for Big Sky. What's a good slogan for Big Sky?



**Henry Sjaardema**  
*Big Sky, Montana*

"I would say, 'Big snow at Big Sky.'"



**Erin Kullbom**  
*Big Sky, Montana*

"I don't know... 'Horseback ride in the mountains.'"



**Tom Vandel**  
*Portland, Oregon*

"'Beyond belief.' 'Bigger than you think.' 'Get high on life.' Those are three off the top of my head."



**Gary Walton**  
*Big Sky, Montana*

"Paradise by the peak."

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**Op-ed:****Backcountry skiers should do more to help protect public lands**

BY ANTHONY PAVKOVICH

As winter draws closer, take a moment to look back on your favorite ski line of last season. Forget about the quality of the snow, the company or the après beers afterward, but instead focus on the location. If you're a backcountry skier like me, your skis were pushing through powder on our public lands. Throughout the season, backcountry skiers utilize public lands across our state on a daily basis.

Nearly as constant as our relentless pursuit of powder has been our legislators' attacks on our public lands. After a particularly threatening bill was introduced in January, H.R. 621, which called for the selling off of 3.3 million acres of federal lands, public land rallies swept across the West.

Montana was home to one of the largest of these rallies. More than 1,000 concerned and empowered citizens gathered at the Capitol in Helena to express their concern over this legislation. Throughout the crowd I saw hunters, anglers, backcountry horsemen and climbers. But where were the skiers?

Probably skiing.

As a backcountry skier, I encounter surprisingly few regulations when recreating on our public lands. More often than not, it's a lack of motivation or poor conditions that keeps me off the mountain. In the past, powder has always been more important to me than politics.

However, times are changing. As skiers, we may need to intentionally miss a powder day in order to keep our mountains accessible.

The next time you go out for a tour, I challenge you to extend the dialog beyond safety and venture into conversation that invokes action. Talk with your partners about issues in your area, because if you're like me, you're surrounded by a strong and passionate community.

This is a community that needs to be encouraged to make their voices heard. Just like the citizens chanting "public lands in public hands" in the halls of the state capitol, we need to remind our elected officials that these lands are valued in our community.

Following that line, educate yourself. Look for a reliable source and study the history and current issues local public lands face. Vote! It's the best way to make your voice heard on the local and regional level. While you're at it, contact your local representatives. Let them know that the backcountry skiing community is well informed and wants to participate in planning and conservation.

Finally, go skiing. By spending time in our public lands you develop a stronger relationship with a place and will be more motivated to work for its protection.

It's time to build on our successes. Met with waves of resistance, H.R. 621 was pulled due to the outdoor-recreation community's strong voice. Now, the challenge becomes, how do we stop reacting to policy but instead, as a community, shape it?

*Anthony Pavkovich is a board member of the Madison-Gallatin chapter of the Montana Wilderness Association. He is also an accomplished endurance athlete who recently ran from Bozeman to Red Lodge, through public lands, to highlight the need for their protection.*



# WINTER EVENTS

## 2017/2018

**NOVEMBER**

OPENING DAY | NOV. 23

**DECEMBER**

\$29 DAY | DEC. 1

TORCHLIGHT PARADE | DEC. 24

NEW YEARS FIREWORKS | DEC. 31

**JANUARY**

SNOBAR | JAN. 13 &amp; 20

RAIL JAM | JAN. 27-28

BSF SLOPESTYLE | JAN. 28

**FEBRUARY**

DUMMY JUMP | FEB. 3

BIG SKY BIG GRASS | FEB. 9-11

SMOKIN' ACES | FEB. 10-11

MAD WOLF RELAY | FEB. 24

**MARCH**

SNOWSHOE SHUFFLE | MAR. 3

SHEDHORN SKIMO | MARCH. 17

HEADWATERS RUNOFF | MAR. 23-25

**APRIL**

POND SKIM | APR. 21

CLOSING DAY | APR. 22

**BIG SKY BIG GRASS 48 HOUR FLASH SALE NOV. 1**

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**BIGSKYRESORT.COM/EVENTS**

# Wastewater disposal and reuse—what are the options?

BY AMANDA EGGERT  
EBS SENIOR EDITOR

BIG SKY – If there was a subtext to the Oct. 18 meeting of the Big Sky Sustainable Water Solutions Forum stakeholder meeting, it might have read, “democracy is messy” or “consensus-based decision-making takes time.”

Despite running more than a half-hour over its allotted three-hour timeframe, the forum didn’t quite pin down wastewater treatment priorities, although it appears that the group—which is comprised of 36 stakeholders that have been meeting since June 2016—is getting closer.

The five leading options for wastewater storage and reuse that were discussed include the following:

**A “purple pipe” irrigation option.** Residents would use treated effluent rather than potable water to water their lawns. Big Sky Water and Sewer District ratepayers could continue to water their lawns with potable water, but they would be charged at a much higher rate to do so.

This could help slow the use of freshwater from Big Sky’s aquifers, which will be in jeopardy as development continues. This is one of the lower-cost options, but the disposal capacity is an unknown and it makes the most sense for high-density areas close to existing sewer mains.

**Using treated effluent for snowmaking.** This would require a surface water discharge permit from the Montana Department of Environmental Quality.

Taylor Middleton, the general manager of Big Sky Resort, has voiced his support—as have many others in the forum—but several attendees of the Oct. 18 meeting questioned if the resort would use energy and resources to make snow with treated effluent during years when Big Sky has a robust snowpack. This would require a high level of treatment at the wastewater plant.

**Shallow groundwater recharge.** This could mean spraying treated effluent into forests or into wetlands so they could eventually filter through the soil and recharge aquifers. There are concerns about agronomic uptake with this option, particularly given Big Sky’s soil

composition—nutrients like nitrogen leftover in the water after it’s treated could potentially make their way into the watershed, where they pose a problem for aquatic life. Increased treatment could help mitigate this concern.

There are also water rights issues to contend with since the Gallatin headwaters are in what’s considered a closed basin, meaning there are no additional water rights free for allocation, and this would not constitute a beneficial use.

**Potable water reuse.** This is sometimes referred to as “toilet to tap,” and is more often seen in dry, highly populated areas where freshwater is scarce. The primary barriers to this option are cost and public perception. Big Sky’s wastewater treatment facility would require an expensive upgrade and there’s a so-called “yuck factor” that would have to be overcome.

**Direct discharge to the Gallatin River.** This is the most conventional—and one of the cheapest—options on the table, but a permit to do so could be challenged in the court system and rendered ineffective, even if it is granted by DEQ. This option has also encountered significant resistance from recreationists and environmentalists concerned about potential impacts to the ecosystem and the area’s recreation economy.

Most of the stakeholders found something they liked about each of the first three options, but there was less support for the latter two.

Forum facilitator Karen Filipovich pointed out at the beginning of the meeting that she’s aiming to have a water stewardship plan in place by the end of the year.

“All of the things we’ve talked about are all going to take time,” said Ron Edwards, general manager of the Big Sky Water and Sewer District. “This [development] train is moving really fast right now.”

*The next stakeholder meeting for the Big Sky Sustainable Water Solutions Forum is scheduled for Nov. 16 from 1-4 p.m. at the BSWSD boardroom. On Sunday, Oct. 29, a meeting held at the Bozeman Public Library will address alternatives to a direct discharge. Billed as a “third-party held, informational meeting about wastewater issues facing Big Sky,” it’s being hosted by Cottonwood Environmental Law Center of Bozeman and is open to the public.*

## Spanish Peaks effluent pond slated to come online end of October

BY AMANDA EGGERT  
EBS SENIOR EDITOR

BIG SKY – The effluent pond that’s been constructed in Spanish Peaks Mountain Club should be ready to accept treated wastewater from the Big Sky Water and Sewer District plant by the end of October, according to BSWSD General Manager Ron Edwards.

Edwards said Spanish Peaks developers have agreed to use 100 percent treated effluent on the Club at Spanish Peaks golf course. “Originally, they were going to do tees and greens with freshwater and now they’re saying they’re going to try 100 percent of it in reclaimed water, which from our perspective is a good thing.”

Edwards estimates that will amount to 30-35 million gallons of treated effluent used for golf course irrigation in an average year. The capacity of the pond is 15 million gallons, and it could be filled multiple times throughout the year.

The district will run up against its storage capacity around mid-May of next year if his projections hold up, Edwards said. Irrigation on area golf courses with treated effluent generally begins toward the end of April, but that’s weather dependent. “Sometimes we have to wait until the first of May,” Edwards said. “It all depends on how the weather shapes up in the spring.”

At their Oct. 17 meeting, the BSWSD board decided to move forward with awarding a contract to an engineering firm to design a plant upgrade, which would involve a greatly improved treatment system as well as a pipeline to the Gallatin River.

“We’ve always told people that designing [a pipe to the Gallatin] is one of the things we’re going to do,” Edwards said. “It doesn’t mean we’re going to turn around and build it. This engineering stuff takes time. You’re better [off] to design it and have that in place.”

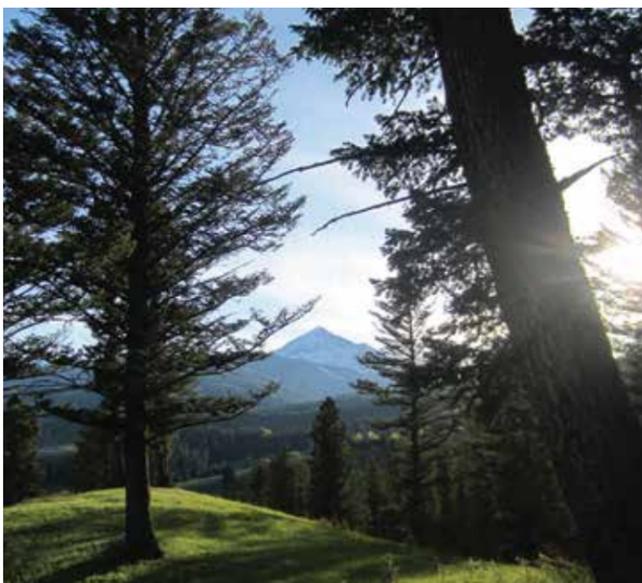
At their meeting, the board decided to enter into contract negotiations with AE2S, a civil and environmental consulting engineering firm that works across the upper Midwest.

Part of AE2S’s proposal includes treatment technology that would improve the plant’s ability to treat wastewater during the winter using a membrane bioreactor system, which was developed by the Dutch government and is used in approximately 30 plants worldwide according to Scott Buecker, a project manager with AE2S.

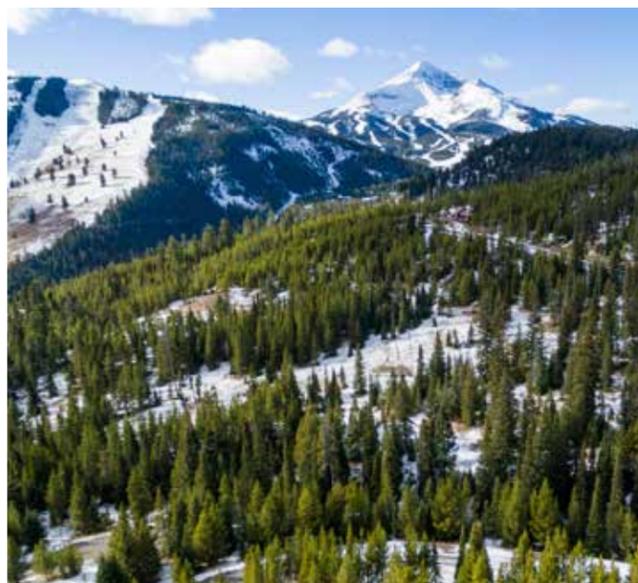
*The next BSWSD board meeting is scheduled for Nov. 21 at 8 a.m. in the BSWSD board meeting room.*

## BIG SKY LAND

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**Big EZ Lot 13 \*** | \$449K  
20 ACRES  
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# Adaptability and population growth among concerns raised at forest plan revision meetings

BY JESSIANNE WRIGHT  
EBS CONTRIBUTOR

**BIG SKY** – With 3.1 million visitors annually, the Custer Gallatin National Forest is the ninth most-visited national forest in the United States.

Covering more than 4,800-square miles, it's also among the most ecologically diverse forests, encompassing both Montana's highest mountain, Granite Peak, and the rolling grasslands of western South Dakota.

Midway through a four-year-long forest plan revision, Forest Service personnel are finding that adaptability is emerging as a repeated theme among residents who live near the Custer Gallatin, which includes pockets of land west of Bozeman as well as open prairie in eastern Montana.

Over the course of eight public meetings and four webinars held across the forest during the month of September, the Forest Service solicited comments from the public to gauge community objectives and desires. Those comments will help shape the revision, which should be presented in draft form in early 2018.

Forest Service spokeswoman Mariah Leuschen-Lonergan said topics have varied some based on location. Grazing, she said, was very important on the east side of the forest. "Over here, it's a lot more recreation-focused conservation," she added.

"One of the things we hear really across the forest is having the new plan be adaptable and flexible," Leuschen-Lonergan said. "The plan is meant to be a 10- to 15-year plan, but may extend well beyond that timeframe and we do not know all the emerging technologies and changes that may come between now and then."

Leuschen-Lonergan said one way to address this might be to use draft language that specifically mentions this need for adaptability. She gave one example of some draft language pertaining to recreation, saying that the plan could specify that "recreation opportunities are adaptable to changing trends or desired recreation opportunities and increasing demands and use of the forest."

Another common trend she's hearing pertains to concerns over population increases in areas like Bozeman, West Yellowstone, Gardiner and Red Lodge. Leuschen-Lonergan said people have expressed the desire that the new plan addresses the agency's ability to serve the public interest with infrastructure while also protecting the forest resources.

"[Population growth] is pretty intertwined with many recreational uses," Leuschen-Lonergan said. This covers facilities and developed recreation sites. She went on to explain that desired conditions, or the overarching vision for the forest plan, could include developing areas that can accommodate new levels of recreational use. With this approach, the Forest Service could concentrate use along some heavily traveled corridors and adapt existing facilities for future goals or changing visitor demands.

Steve Johnson, a Big Sky resident who sits on several local planning boards, has attended some of the revision plan meetings. He pointed out in an interview that Big Sky is surrounded by national forest, so things like trail access, trail designations, closures and wildlife impacts are important concerns. "Big Sky has an interest in those," Johnson said. "Big Sky needs to weigh in on that."

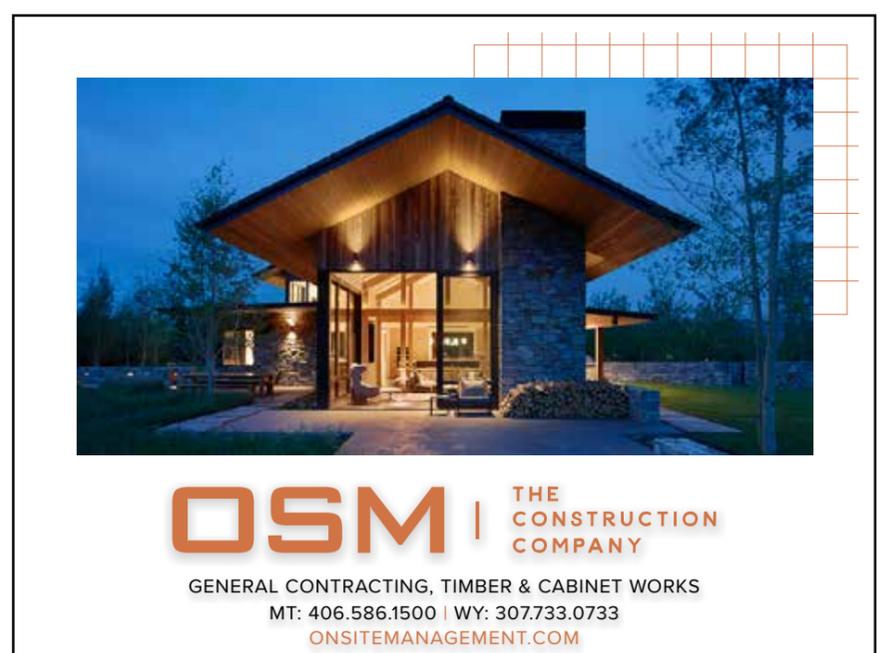
As part of the new forest plan, the Forest Service must consider every stream that has potential for wild and scenic designation and every possible wilderness tract, and identify if it is suitable for designation or not. Johnson specifically mentioned the need to consider the Hyalite-Porcupine-Buffalo Horn Wilderness Study Area, 155 acres of forest protected in 1977 as a wilderness study area but not a fully designated wilderness area.

In 2014, the Custer and Gallatin national forests were consolidated into the single Custer Gallatin National Forest. However, the forest has continued to be managed under forest plans created in 1986 and 1987. "Since '86 and '87 a lot has changed," Leuschen-Lonergan said.

"This hasn't been done for 30 years," Johnson said, referring to the forest plan revision. "It's likely that it will not be done again for 30 years, so it's important this is done right."

In January 2016 the Forest Service began the four-year process of revising the Custer Gallatin National Forest Plan. The meetings in September were the fourth round of public meetings held so far. Currently, the Forest Service is compiling information gathered at the September meetings and plans to release a draft of the proposed action closer to the new year, with public commentary and meetings to follow.

To track the progress of the Custer Gallatin National Forest plan revision, visit [www.fs.usda.gov/detail/custergallatin/landmanagement/planning/](http://www.fs.usda.gov/detail/custergallatin/landmanagement/planning/). General feedback and comments can be made by emailing [cgplanrevision@fs.fed.us](mailto:cgplanrevision@fs.fed.us).

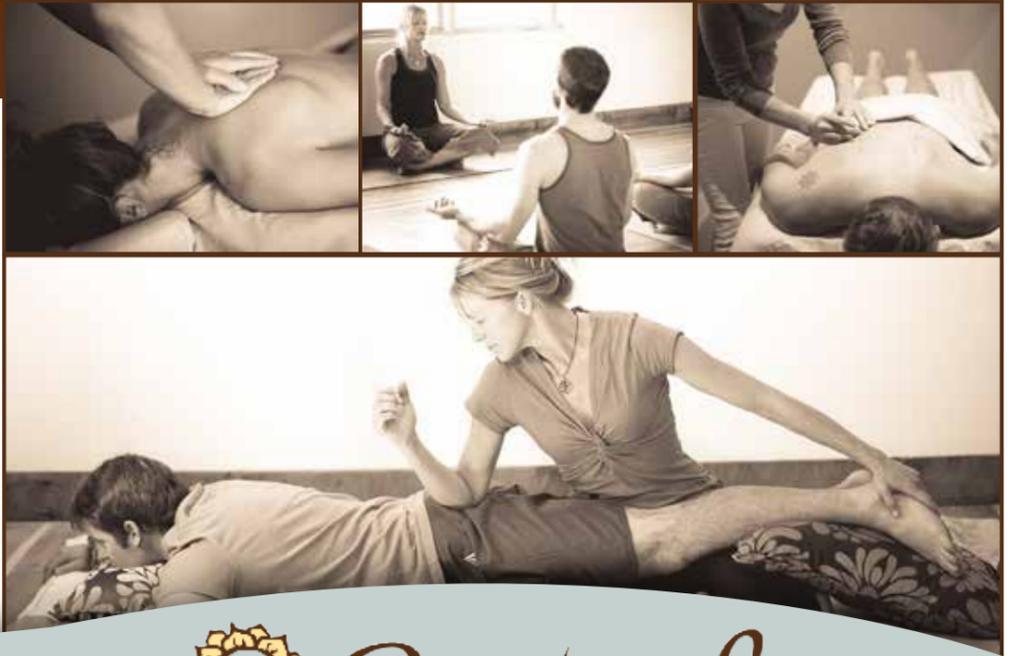


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All Levels Yoga

7:30-8:30am  
All Levels Yoga

9:00-10:00am  
All Levels Yoga

4:15-5:15pm  
All Levels Yoga

8:00-8:45am  
DanceX

9:00-10:15am  
All Levels Yoga

11:00-12:30  
The Practice  
(level 2-3 Yoga)

7:30-8:30am  
All Levels Mat Pilates

9:00-10:00am  
All Levels Yoga

8:00-8:45am  
DanceX

9:00-10:15am  
Level II Yoga

11:00-Noon  
Gentle/Restorative  
Yoga

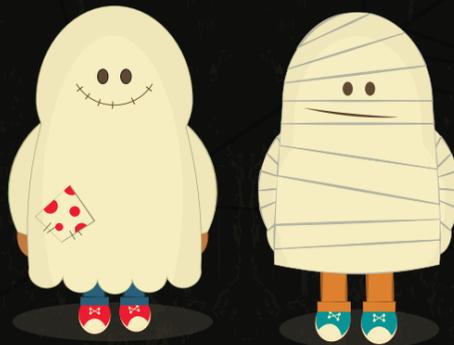
9:00-10:15am  
All Levels Yoga

# HALLOWEEN IS UPON US

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## STAY SAFE BIG SKY



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# Global Tech Summit explores innovative spaces, robotics and smart smartphone use

BY BAY STEPHENS  
EBS EDITORIAL ASSISTANT

BIG SKY - Technology, a bus with a big future and the great outdoors all came together at the second annual Global Tech Summit hosted by the Big Sky School District on Oct. 19 and 20. Teachers and presenters from around the state gathered to learn about and share new ways to approach teaching through technology.

Jeremy Harder, the fourth grade teacher at Ophir Elementary as well as the driving force behind the summit, said BSSD decided to host it the past two years as an alternative to the statewide MEA-MFT Educators' Conference, which took place the same two days.

"We just wanted to offer people a different opportunity, plus we felt like we were fortunate enough with funding and with the staff being excited [about] learning a lot of technology," Harder said. "We felt like people could benefit from what we know."

Another driver for hosting the summit was to showcase how technology education can be balanced with outdoor education to maintain social, emotional and physical health.

A shining example of balance through alternative learning was parked out front: a maker bus. With the support of the administration and community as a whole, BSSD is building a mobile makerspace out of the "old reliable" of the bus fleet.

"Eighteen years it's been here," said Harder, who has driven it to Yellowstone National Park with his fourth graders more than a dozen times. "It's one of our best busses. She starts right up. Problem is she's standard and a lot of the new drivers don't know standard."

BSSD's technology director Andrew Blessing said the bus will become a space for making of all sorts, from woodworking to robotics, sewing to LEGOs and beyond. Ryan Hunt, one of the summit's keynote speakers, acted as the maker bus builder-in-residence, having built his own with two friends starting in graduate school. He worked and brainstormed alongside BSSD staff as they stripped bus seats and put in new flooring.

Any makerspace will reflect the community it inhabits, Hunt said. These spaces can be versatile, allowing for a hands-on method of learning and exploration that flows with the interests of the makers themselves. Likewise, the maker bus will reflect the Big Sky community.

"The bus won't just be for the district—I mean we'll use it a lot here—but we want to take it up to Town Center this summer and go to farmers markets and do some of the kids camps and travel around Montana," Blessing said.

In short, the bus will become a place where "the mind can explode and make anything it wants," Blessing said.



Ophir Elementary fourth grade teacher Jeremy Harder wore his "#Teachers-MakeAmericaGreatAgain" hat at the second annual Global Tech Summit on Oct. 19 and 20. Harder is one of the conference's main coordinators.  
PHOTOS BY BAY STEPHENS

Workshops scattered throughout the summit offered fresh and interactive approaches to teaching using tools such as Google Classroom, interactive apps on iPads, circuitry and robotics.

Rob Reynolds of Eureka, Montana, shared the power of robotics for teaching problem solving and team building as teachers programmed and reprogrammed their robots until they could trace a square on the ground.

In a class on competitive robotics, Reynolds said the goal has less to do with winning, and more to do with working together. At a tournament, this "coopertition" leads teams to help other teams that might struggle with coding their robots.

Drawing from an Atlantic magazine article by psychology professor Jean M. Twenge, local health coach and artist Jackie Rainford Corcoran delved into the effects of smartphones on the health of today's youth.

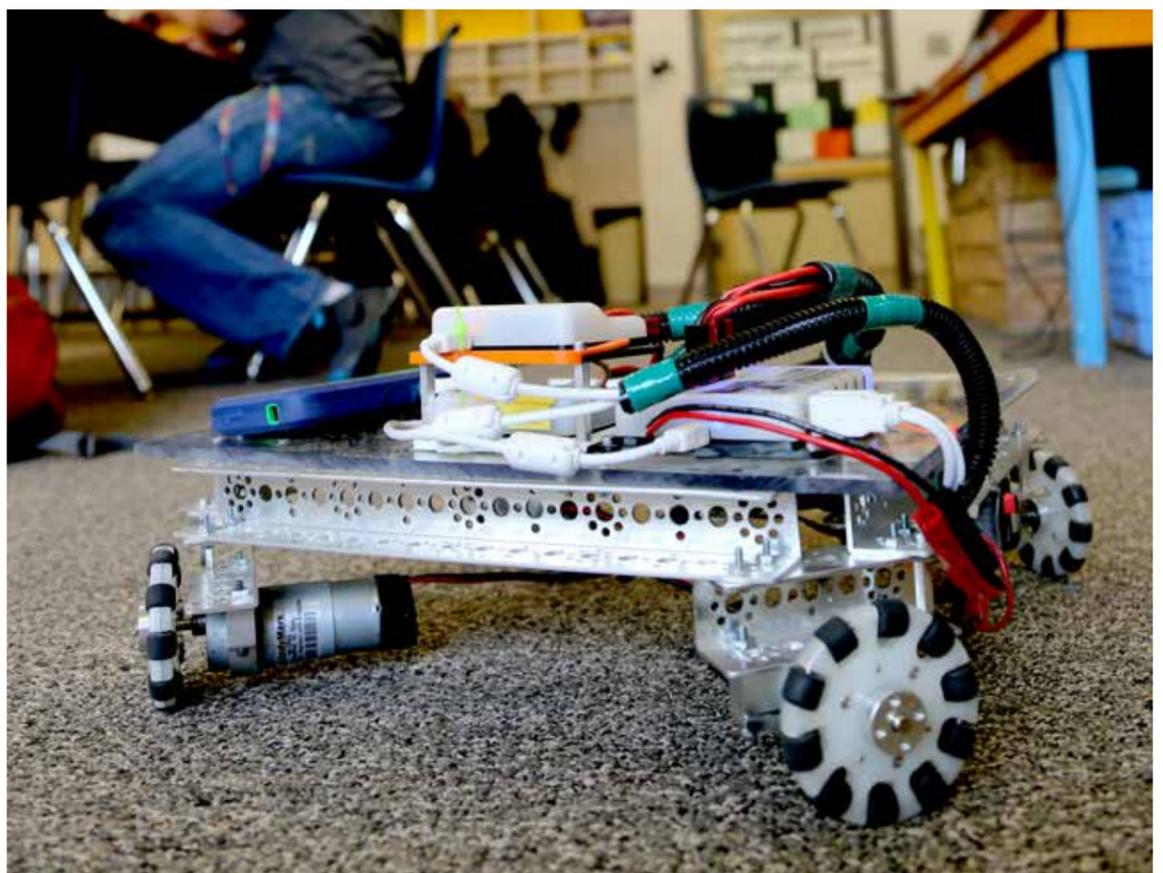
"We are in uncharted waters," Rainford said.

"We do not know what the outcomes of this [era of technology] will be." She warned the audience against simply shunning or blaming technology for generational issues. Instead, Rainford offered encouragement to continue seeking ways to use technology for growth while affirming students through personal interactions.

Throughout the summit, attendees were animated.

"A lot of cool new things have been brought to the table," said Ophir Elementary first grade teacher Ashley Jenks. "I think it's just really valuable and it gets everyone super excited and energetic for the school year. We all feel really pumped to make it the best school year yet."

"Each year we just hope it gets bigger and better and different," Harder said, as he rolled around ideas for next year in his mind.



One of Rob Reynolds' robots with a holonomic design and "omniwheels" that allow it to move in any direction without turning.

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## School arts programming gets creative

### Urban meets rural at the Big Timber Arts Roundup

BY ABIGAIL HOGAN  
EBS CONTRIBUTOR

The Big Timber Arts Roundup—a three-day arts intensive student retreat—is nothing short of a magical experience. From Oct. 19-22, with approximately 40 students from Montana, Pennsylvania and California, I got to spend hours a day working with creative professionals who provided strong guidance and helped us to improve our work. Each student focused on one of four disciplines: photography, painting, acting and writing. My area of focus this year was theater.



In late October, six Lone Peak High School students attended the Big Timber Art Roundup, an arts-intensive retreat with students from across the country and professional creatives in their area of focus. PHOTO BY MEGAN BUECKING

Participating students, artists and teachers stay at the Hobble Diamond Ranch, owned by Bob and Susan Burch, during the roundup. The 32,000-acre ranch boasts fall-colored cottonwoods, rolling hills, lots of cows, the Yellowstone River, and plenty more to explore.

“The trip could be in a parking lot and it might as well be just as fun,” said Liam James, a senior student and actor from the Haverford School in Philadelphia. “It’s the people who make it what it is.”

Each student got an exclusive one-on-one experience with artists that included writers Paul Zarzyski, Kim and Janet Zupan, and Claire Davis; painter Diana Brady, photographer Barbara Van Cleave, and actors from Montana Shakespeare in the Schools.

I have had the privilege to attend the Big Timber Arts Roundup my sophomore, junior, and now, my senior year, but for most students, the trip is a once in a lifetime opportunity. In previous years, I attended for writing and theater.

Artistic experiences like this are a great way to keep the arts alive in schools. It is so important for schools to encourage and support students’ artistic endeavors. The arts can be an outlet for students who need a way to express themselves and can lead to different ways of thinking in core academic classes like math, science, history and English.

The roundup introduced me to amazing artists who are willing to continue helping me with my craft and students who will always be my friends. The roundup helped me form a clearer vision for my future. I plan to continue studying the arts in college next fall. Down the road, my goals are to publish works of poetry, a play and maybe a novel; and to be performing in plays outside of school, and hopefully auditioning for big productions.

*Abigail Hogan is a senior at Lone Peak High School.*

### Arts Council brings ‘Alaska’s fiddling poet’ to Big Sky classrooms

BY JULIA BARTON  
EBS EDITORIAL ASSISTANT

From Oct. 25-27, the Arts Council of Big Sky sponsored artist Ken Waldman, who refers to himself as “Alaska’s fiddling poet,” to spend time with local students as well as members of the community.

Waldman is a former college professor with a master’s degree in creative writing. He uses his passion for the arts to fuel visits to hundreds of schools across the country and aid them in arts education.

His lessons are unique, as Waldman uses fiddle-playing and interactive poetry to engage with students. During his time in Big Sky, he spent time at Ophir Elementary and Middle School, as well as the Big Sky Discovery Academy. He also led a writing workshop for Lone Peak High School students and adults.

To round out his time in Big Sky, on Friday, Oct. 27, beginning at 5 p.m., Waldman will host an old-time music variety show at the Rainbow Ranch Lodge. This event is open to any community members who wish to see what Alaska’s fiddling poet truly has to offer.

The Arts Council has put in significant effort in the last year towards increasing community art programs to augment the painting and writing workshops, summer concerts, and art-related initiatives the organization already spearheads, both in and out of the classroom.



Traveling artist Ken Waldman stopped in Big Sky to share his unique brand of fiddling poetry with area students and the community at large. PHOTO COURTESY OF THE ARTS COUNCIL OF BIG SKY

## Ophir exhibit to raise funds for arts programming

BY SARAH GIANELLI  
EBS ASSOCIATE EDITOR

BIG SKY – Art Harvest is a student exhibition and fundraiser that was started last year by Big Sky artist and Ophir parent Liz McCrae. A partnership with the Bozeman nonprofit ArtSpot, which currently provides the elementary school’s only regular art education, the Art Harvest exhibit and sale will take place Nov. 9 from 5-7 p.m. in the Ophir School library.

Chelsea and Richard Smith, the founders of ArtSpot, bring a range of art programming to grades K-8 in approximately a dozen Montana schools annually.

At Ophir, where ArtSpot has been providing art education for more than a decade, the Smiths are in the classrooms every Tuesday and Wednesday, which allows them to spend time with every K-5 student each week.

“[The Smiths] have been an integral part of Art Harvest,” McCrae said. “Both in developing the ideas for the art projects we will display and sell, and in carrying them out to produce beautiful work on the part of the students.”



An exhibit of student artwork on Nov. 9 will support the continuation of arts programming in the Big Sky School District. PHOTO BY LINDA NELL

But the students aren’t just drawing pretty pictures, McCrae said. The educational component involves studying ancient masters and contemporary regional artists, and developing technique in a variety of mediums.

McCrae came up with the idea of Art Harvest to help fund the district’s art programming and ensure students have access to means of creative expression in the school.

“In a town where we celebrate all these beautiful things outdoors, and sports and a healthy lifestyle, the kids who are really talented artists are not celebrated,” McCrae said. “Art Harvest is an evening dedicated to celebrating these kids’ art.”

Not surprisingly, the Smiths are also stalwart believers in the importance of art education in the schools.

“The place the visual arts have in a child’s education has many facets,” Chelsea Smith said. “Art education increases knowledge, develops critical thinking, demonstrates large and small differences, builds personal and human development, and brightens our days.”

A dozen of the strongest student pieces created for Art Harvest will be framed and displayed. In addition to the original works, gift cards printed with the imagery will also be for sale at the Nov. 9 event.

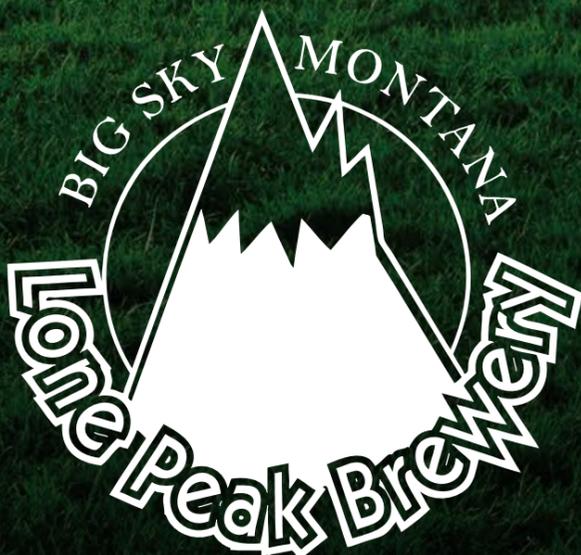
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## Big Sky School District board welcomes new trustee, reinstates canyon bus route

BY SARAH GIANELLI  
EBS ASSOCIATE EDITOR

BIG SKY - At its Oct. 24 meeting, the Big Sky School District board selected Margo Magnant to fill a vacancy on the school board left by Kim Gunderson, who moved out of the district. Magnant was chosen over Big Sky Fire Department Chief William Farhat, who also submitted a letter of interest for the seat, and was not present at the meeting.

Magnant thanked Superintendent Dustin Shipman for his recommendation and addressed the board. "As a product of Bozeman public schools and the daughter of a special education teacher, education has been very important in my life," Magnant said. "I see the school system as an enormous part of this community's growth and I would be honored to serve."

Magnant, who is the Big Sky Chamber of Commerce membership director, attended Georgetown University in Washington D.C., and is currently pursuing a master's in Business Administration from the University of Montana.

"While I am not a parent, I do represent an important segment of our community—a young taxpayer working hard to build a life in this place that I love," she said.

Magnant founded the Big Sky Young Professionals group to bring together young, like-minded individuals with the goals of building community and fostering personal and professional growth.

"From this background, I hope to provide a fresh perspective on the school board," Magnant said. "It is an exciting time at the district with a comprehensive strategic plan, and excellent staff and administration in place. The appointment as trustee is a true honor which I will not take lightly."

Magnant is filling an interim position, and will run in the regular May elections should she wish to remain on the board.

In other school district news, Secondary School Principal Alex Ide reported that the district is number one in the state for ACT test results.

Shipman also announced that the suspended bus route, which serviced the canyon from the Cinnamon Lodge area to Karst, and the Ramshorn neighborhood, would be reinstated beginning Nov. 1.

"Like we said, we'd give you the bus back as soon as we found a driver," said board chair Loren Bough.

*The next meeting of the Big Sky School District school board will be held at 5:30 p.m. on Wednesday Nov. 29, in the Ophir School conference room.*

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# Close championship race forecast for PBR World Finals in Las Vegas

BY JUSTIN FELISKO  
EBS CONTRIBUTOR

PUEBLO, Colo - The 2017 World Championship race has developed into one of the most exciting and intriguing races in PBR history. With the top five riders separated by 655 points heading into Las Vegas, the championship race is wide open.

At the PBR World Finals, one rider can earn a maximum of 3,300 world points in the six-round competition. While any rider within at least 2,000 points of the world lead is mathematically alive, Derek Kolbaba, Eduardo Aparecido, Cooper Davis, Kaique Pacheco, Jess Lockwood and Cooper Davis are the clear frontrunners heading into the 2017 PBR Built Ford Tough World Finals at T-Mobile Arena in Las Vegas.

“This is the best world title race I have ever seen,” said two-time World Champion Justin McBride. “I don’t want to take anything away from the [previous] races, but usually you got one guy or you got a two-man race that is really strong. Last year we got to see a three-man race, which doesn’t happen very often.

“This year, I thought it was down to four, and Kolbaba made it five. Then if Chase (Outlaw) has a big weekend it is six. I don’t know. It really is anybody’s ballgame.”

Aparecido spent the majority of the season in the No. 1 ranking and is looking to join 16 other riders with a PBR World Championship to their name in the circuit’s 24-year history.

But Kolbaba’s torrid run through September and October, which featured back-to-back walk-off victories, and three 90-point or more championship round rides, has vaulted him to No. 1, on the doorstep of a gold buckle and a \$1 million champion bonus.

At No. 3, Davis, the reigning World Champion, may be the most seasoned among this year’s world title contenders despite not having sat atop the world standings since clinching the 2016 world title on the final day of the World Finals last year.

The rider Davis usurped last year, Kaique Pacheco, now fourth in the world, is laser focused and technically gifted; the Brazilian has remained in contention for this year’s world title despite a series of nagging injuries, let alone the mental fatigue of finishing runner-up in the 2015 and 2016 world title races.



Derek Kolbaba, a 21-year-old rider from Walla Walla, Washington, is ranked No. 1 heading into the PBR World Finals in Las Vegas Nov. 1-5. PHOTO COURTESY OF BULL STOCK MEDIA

“It is hard to pick a favorite,” PBR Director of Livestock Cody Lambert said. “An injury will take any of them out of it. Even with the injuries, Kaique and Jess are still there.”

No. 5 Lockwood, a heralded 20-year-old from Volborg, Montana, has not let a torn groin, broken ribs, a punctured lung and a lacerated kidney get in the way of him possibly becoming the youngest World Champion in PBR history.

“They have all had hiccups and had big moments,” Lambert said. “It has been real exciting to watch and any one of them can win it. Those guys are so good that they are role models to everyone, and it doesn’t matter who wins it. I will be proud of what all of them have accomplished.”

*The 2017 PBR World Finals are shaping up to be one of the year’s best sports events. Tickets can be purchased at [axs.com](http://axs.com) or the T-Mobile Arena box office. For a complete schedule of PBR World Finals events, visit [pbrfinalsweek.com](http://pbrfinalsweek.com)*

*Justin Felisko is Senior Writer/Editor for Professional Bull Riders. He has contributed to SiriusXM Radio, 120 Sports, The New York Times, USA Hockey, the Colorado Springs Gazette and the Emmy-nominated documentary series, “Fearless.” He would name a bull “Caffeine-a-bolic” if he were given the chance.*

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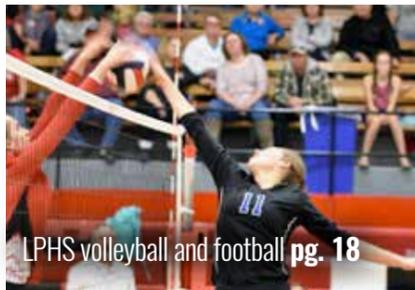
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## Section 2: ENVIRONMENT, SPORTS, BUSINESS, DINING & HEALTH



LPHS volleyball and football pg. 18



Lone Peak Caregivers expands pg. 19



Mix it up: Tea varieties pg. 20

# The New West: For 10,000 years, Sheepeaters knew how to live with nature

BY TODD WILKINSON  
EBS ENVIRONMENTAL COLUMNIST

Earlier this year, tantalizing new research based on mastodon bones was reported, suggesting that humans might have been in North America far longer than we've been long lead to believe—for 130,000 years rather than the much shorter post-Pleistocene estimate of 13,000.

Whether for 130 millennia or 13, it's a long, long time of human presence on the continent. Epic, in fact, compared to the superficial way we flag-waving "Americans" are taught to think about history, even in our own backyards of the northern Rockies.

If you're in southwest Montana, non-pre-history "started" with the arrival of Lewis and Clark passing through in 1804 or, if in Jackson Hole, with the brief wanderings of Davey Jackson, Jim Bridger, or with the first permanent white settlers to take root five, maybe six generations ago.

We treat true native inhabitation as exotic, as if it's an "other," as if we still can't seem to wrap our minds around the fact that long before the Egyptian pyramids were getting built, the Roman and Greek empires rose and fell, and "civilization" was blossoming in Mesopotamia, people were here—within viewshot of where you're reading this, making a living.

...

Tory Taylor is a man of the mountains. For 30 years, he and his wife Meredith operated a backcountry outfitting and guide service based in Dubois, Idaho, and they've ventured into many of the wildest corners of the Greater Yellowstone Ecosystem.

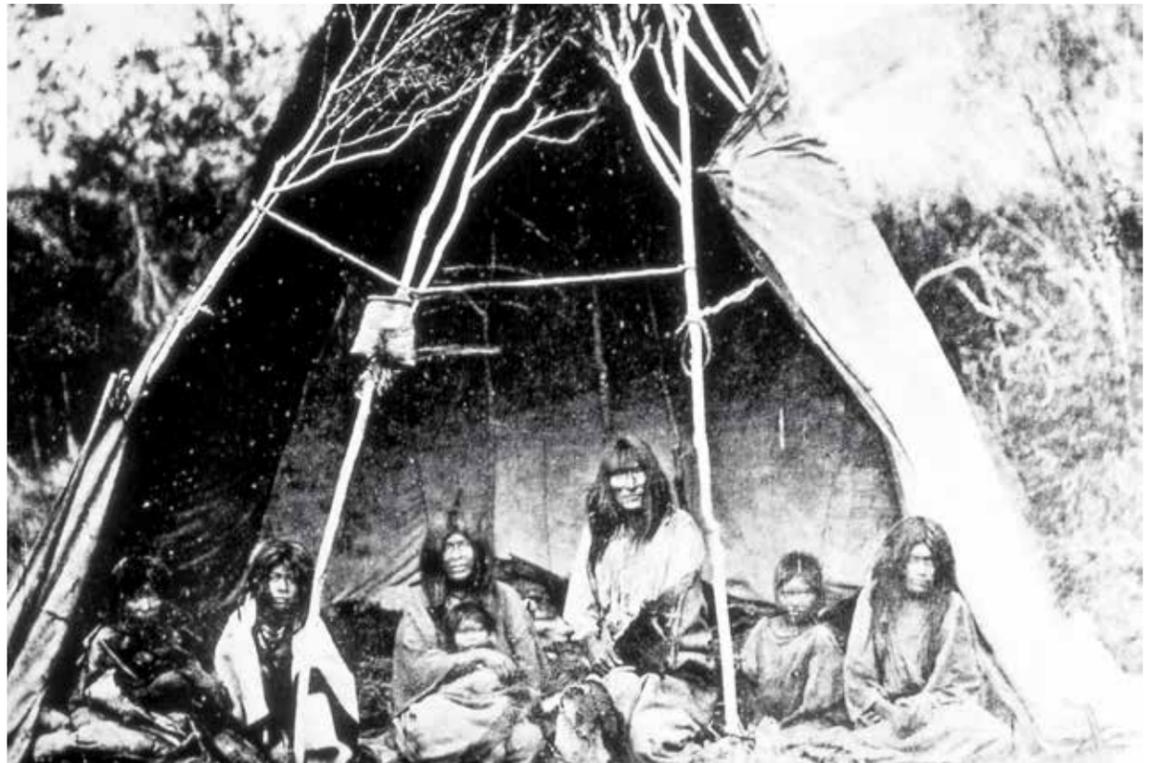
While Taylor understands and venerates the proud tradition of outfitters and guides, some of whom have been doing it for generations, he struggles mightily with the notion of "pre-history", as if the tenure of what happened before we got here doesn't matter.

In 1994, Taylor was on a horseback ride through the high ramparts of the Wind River Range when his boot kicked up something buried in a mat of pine-needle duff. What emerged was not a mastodon bone but a soapstone bowl. Hand-carved, its date of creation still isn't exactly known, but it likely belonged to a member of the Mountain Shoshone, also known as "the Sheepeaters."

In fact, additional evidence continues to be unearthed showing how the Sheepeaters roamed our region, toting a sophisticated understanding of how the natural parts of Greater Yellowstone worked because their survival, across generation after generation after generation, depended upon it.

Taylor's book "On the Trail of the Mountain Shoshone Sheepeaters: A High Altitude Archaeological Odyssey" is not a scientific treatise. It is a breezy, 140-page volume of discovery as the author reveals where the artifacts he found led him. The trail includes his interaction with experts in archaeology and paleontology who pull back layers of human connection to the land that are invisible to most of us.

Apart from William Henry Jackson's probably misleading and widely circulated black and white photograph of the Sheepeaters, showing a



The Sheepeaters lived in the Greater Yellowstone Ecosystem millennia ago and are the focus of a new book by Tory Taylor titled "On the Trail of the Mountain Shoshone Sheepeaters: A High Altitude Archaeological Odyssey." PHOTO BY WILLIAM HENRY JACKSON

family in a wikiup, little, relatively speaking, is known about this subset of Shoshonean people.

Where Taylor's book succeeds is in applying his own perspective as a mountain wanderer, possessing a keen appreciation for the challenges, nuances and topography of the high country. A modern hunter and gatherer himself, he contemplates nutrition via "the Paleo diet," and travel with and without the aid of horses, and clothing and portable shelter prior to the advent of North Face.

He ponders vistas that were about staying alive instead of merely satisfying our modern, self-focused indulgence of recreating simply to have fun.

How is the ken of place different between Greater Yellowstone's self-proclaimed 21st century "explorers" and "adventurers" and the Sheepeaters' depth of knowledge in their era without Google maps on the cell phone and real-time weather reports warning one that it's time to take cover?

All of this is not a total knock on our sense of reality, in which a 10,000-square-foot trophy home, hot tub and dram of Scotch awaits after a "hard mountain bike ride" or afternoon of making turns off-piste.

Taylor's book forces us to think, to imagine the long, long, long span of time when the skills learned by living as a community in sync with nature and not in defiance of it, was the norm, not the exception.

"On the Trail of the Mountain Sheep Eaters" prompts more questions than it answers. Taylor takes us to places we think we know like the back of our hand but what we discover is something far more breathtaking.

*Todd Wilkinson, founder of Mountain Journal (mountainjournal.org), is author of "Grizzlies of Pilgrim Creek" about famous Greater Yellowstone grizzly bear 399 featuring 150 photographs by Tom Mangelsen, available only at mangelsen.com/grizzly. His profile of Montana politician Max Baucus appears in the summer 2017 issue of Mountain Outlaw and is now on newsstands.*

# Big Horns close the season 6-3, prep for state playoffs

BY CHRIS SAMUELS  
EBS CONTRIBUTOR

ABSAROKEE/BIG SKY - The Big Horns closed out their second season as an 8-man football team with a road win Oct. 13 and an Oct. 18 loss at home against the Ennis Mustangs, a team that could very well reclaim the state championship in November.

On Oct. 13, the Big Horns earned a hard-fought victory against the Absarokee Huskies. The Big Horn defense was stifling, holding the Huskies scoreless in the first half. Lone Peak wasn't able to get on the board during the first half either, and the score stood 0-0 heading into halftime.

The Big Horns got it together in the second half with senior receiver Howie Robin hauling in two touchdown passes from sophomore quarterback Frankie Starz. Absarokee notched its only score of the game with a kickoff return for a touchdown.

Senior receiver Liam Germain put the game out of reach with a touchdown run and junior kicker Milosz Shipman converted the PAT bringing the final score to 21-6.

"The defense really stepped up against Absarokee," said LPHS assistant coach Dan Wade. "It was our best effort of the season."

Leuzinger and senior defensive end and linebacker Jackson Wade led the team in tackles. Other standout defensive efforts included a fumble recovery by senior linebacker Evan Redmon and an interception by sophomore receiver Austin Samuels, who snagged his fifth interception of the season, earning him a spot in LPHS's record books. He's now tied with Eddie Starz, who graduated last year.

Five days later, Lone Peak hosted the Ennis Mustangs under the lights for the Big Horns' last regular-season game of the year.

Lone Peak honored its seven seniors in a pre-game ceremony by bringing them out on the field with their families. Leuzinger and Robin played two seasons with the Big Horn football squad, and Zach Cone has worn a Big Horn jersey for three years. Lone Peak seniors with four years include Redmon, Germain, Wade and Holden Samuels, who spent this season recovering from a knee injury he sustained at football camp this summer. Each senior was honored for his accomplishments on the field and in the classroom.



The Big Horns played the Ennis Mustangs at home on Oct. 18. The Mustangs won the game 50-7, bringing their record to 8-1. PHOTO BY DOUG HARE

The game was dominated by the Ennis Mustangs, who are the defending state champions. The Big Horns scored early when Starz found Robin for a long touchdown. Robin has the distinction of scoring a touchdown in all nine games this season, and his TD marked the offensive highlight for Lone Peak—it was all Ennis after that. They closed the game with a 50-7 win.

Although they ended the regular season with a loss, the Big Horns' 6-3 record secured their first 8-man football playoff game in the program's young history. The Big Horns play the Flint Creek Co-op on Saturday, Oct. 28, at 1 p.m. in Drummond. Flint Creek Co-op is a joint team comprised of Drummond High School and Granite County High School in Phillipsburg. They're the No. 1 seed in the western 8-man conference. If the Big Horns bring home a win, they'll continue on to the second round of state playoffs on Nov. 4.

## Big Horns close regular season with disappointment in Twin Bridges

BY AMANDA EGGERT  
EBS SENIOR EDITOR

TWIN BRIDGES - The Big Horns finished their regular season with a tough road loss in four sets to the Twin Bridges Falcons on Oct. 21. Lone Peak closed their regular season 8-2 in conference play and with an overall record of 11-5.

Falcon middle hitter Kailee Oliverson was a ferocious presence at the net, demonstrating her formidable firing power early on. The 6-foot-3-inch senior logged five-plus kills in the first set alone. Many of her hits sailed through the Big Horns' blockers, leaving Lone Peak's back row scrambling to dig them near the 10-foot line.

"There was basically no defending that," said Lone Peak head coach Missy Botha. "Considering what a big player she [is], I think the back row did a fair job defending her."



Senior setter Kuka Holder battles with Twin Bridges at the net during an Oct. 21 faceoff. PHOTO BY JOHN MEYER

The Big Horns were down two players. Junior outside hitter Madison Wagner was out with a cold and Brooke Botha, also a junior outside hitter, was out hunting. (Oct. 21 was opening day of rifle season.)

The first set remained close until the second half. Despite a brief resurgence toward the end, with senior libero Bryn Iskendarian at the service line, the Falcons claimed the set 25-18.

In the second set, the Falcons and Big Horns played a more competitive net game. Junior middle hitter Solae Swenson and senior middle hitter Katie Hoffman traded blocks and kills with the Falcons. The second set ended 27-25, Falcons' lead.

Despite well-timed and effective blocking by the Falcons, the Big Horns found their groove in the third set and led by as many as eight points at times. The Falcons' Oliverson reclaimed her mojo in that set, but Twin Bridges couldn't quite catch the Big Horns. Lone Peak senior defensive specialist Julia Barton closed the set 25-21 by sending an ace across the net, one of two she logged during the game.

The fourth set ended in the Falcons favor 16-14. Missed serves by the Big Horns in the final set hampered their forward momentum, and Lone Peak fans were fired up about the officiating. Their increasingly frustrated commentary grew in volume as the game progressed.

"At the end there, if the ref hadn't intervened, we were right there with them and we could have taken them," Botha said. "I have to commend my girls for their composure and their classiness during that game."

"If we see [Twin Bridges] further down the road in the post-season, with better officiating, I'm sure we're going to be competitive with them," Botha added.

Swenson closed the game with 10 kills and Hoffman notched five. Hoffman led the Big Horns in blocks with four, and Iskendarian led the Big Horns in both aces and digs with five of each.

*The Big Horns are seeded No. 2 heading into the 11C District Tournament on Oct. 26 and 27. If the Big Horns finish in the top two, they'll continue on to the Western C Divisional Tournament, Nov. 2-4 at Manhattan Christian High School.*



# From Jackie *with love*



BY JACKIE RAINFORD CORCORAN  
EBS HEALTH COLUMNIST

The September 2017 issue of The Atlantic on how technology is affecting our children's health is getting a lot of press—both good and bad. The author, San Diego State University psychology professor Jean M. Twenge, has been studying generational differences for 25 years.

Her provocative article titled “Have smartphones destroyed a generation?” asks an intriguing question and gives one pause. We are in uncharted territory when it comes to technology. Never before has a generation had potentially unlimited access to a powerful, hand-held personal computer from the time they're born.

Twenge argues that because of this, kids today are “on the brink of the worst mental-health crisis in decades.”

The outcomes of this historic shift could be far-reaching. The generation that Twenge refers to, which she aptly dubbed iGen, was born between 1995 and 2012. This makes them 5 to 22 years old —not old enough to fully know the effects.

Among other observations, Twenge notes that teenage behavior trends have increased since the iPhone was released in 2007.

Along with other thought-provoking claims, Twenge says that her data shows iPhone and social media use is causing teen suicide rates to go up. While statistics are often easy to rebuke, accurately measuring the rate of teen suicide in the U.S. seems plausible. But is technology the cause? Some experts are pushing back, saying that Twenge's data shows correlation but not causation.

As a holistic health coach, reading about the rising rate of teen suicide compels me to try and see the bigger picture.

## Technology and our children's mental health

What are the trending patterns of sleep, diet and exercise among this generation? What's the role of our economy, educational system, parenting practices and overarching culture? Is there a link between suicide and prescription drug use?

These are not questions to be thought about in a vacuum. Each community and family has its own unique way of doing things. Many conversations need to be had. If we approach these topics with curiosity and a willingness to listen to each other (including our children) without judgment, we could tap into these issues on a local level—perhaps where they matter most.

There is tremendous potential for leadership here. When we have personal confidence in the value that we bring to the world along with authentic humility, we pass this on to our children, students and mentees. We arm them with the inner strength and wisdom of knowing that meaning, acceptance and love does not come from outside of ourselves. It comes from within.

When we strive to become the best and healthiest version of ourselves, we lead by example. How do each of us approach mental, physical and spiritual health? And what's our own relationship with our devices? Do we leave others feeling lonely and isolated because we disengage in favor of screens?

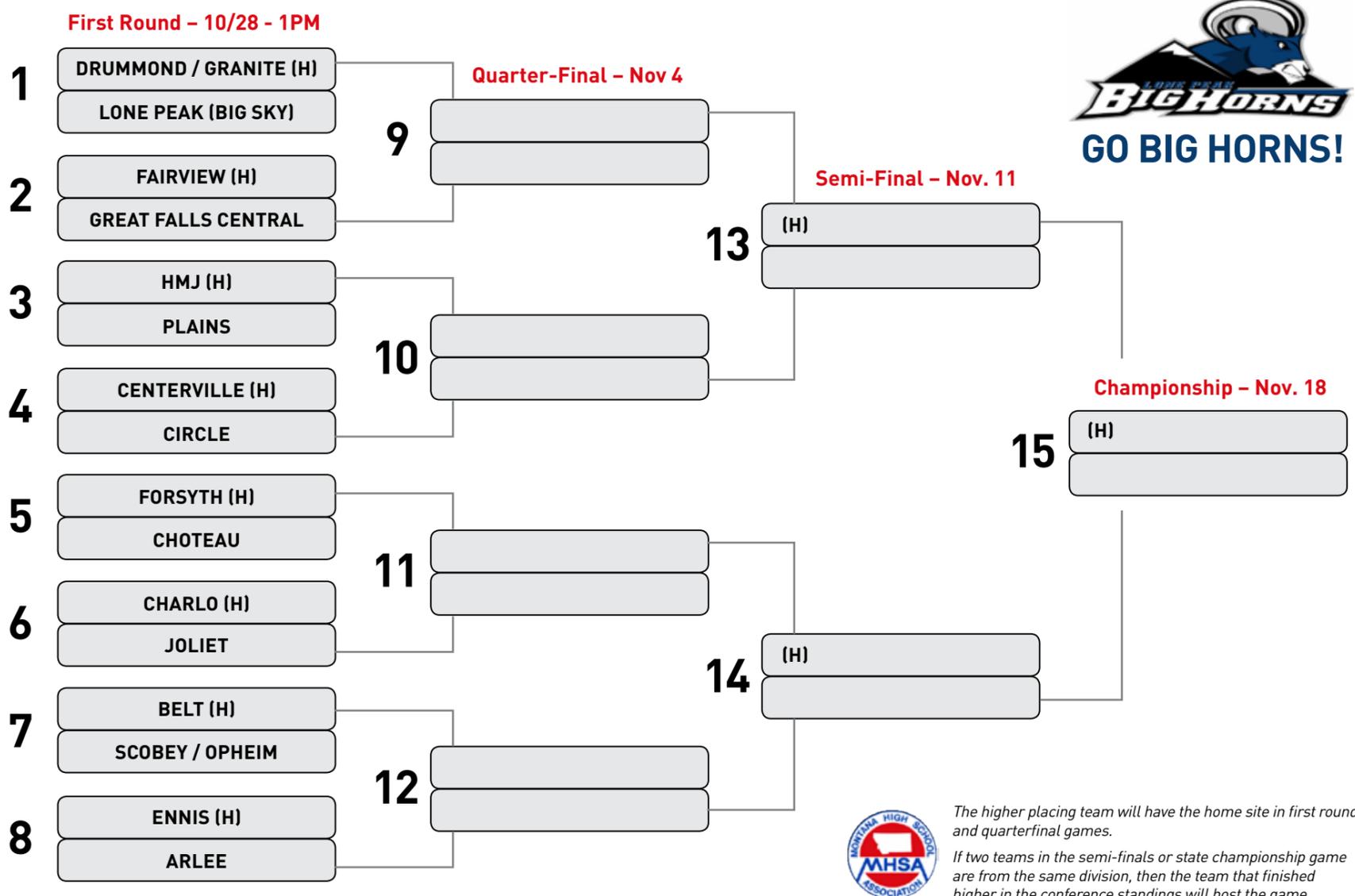
Technology is indifferent to our wants and needs. It's a tool. We can use it to make our lives richer or squander away time and disconnect from the rest of the world. The choice is ours.

I hope we rise above blaming and shaming technology and a generation of children who happened to be born at the advent of the iPhone.

Today, our country would be well served if we focused on building each other up and consciously coming together in new and innovative ways. And in doing so, there's a good chance technology will play a part in making it possible.

Jackie Rainford Corcoran is an IIN Certified Holistic Health Coach, culture consultant and public speaker. For a complimentary health consultation, reach her at [rainfordcorcoran@gmail.com](mailto:rainfordcorcoran@gmail.com).

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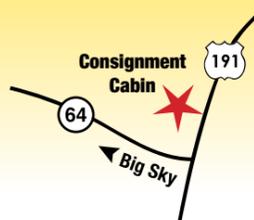
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## DOCTOR'S NOTE

### Getting ready for the ski season



BY JEFF DANIELS  
EBS MEDICAL COLUMNIST

With the cold weather and snow in the mountains, hopes for a long Indian summer fade, and we are prompted to get ready for the ski season, which starts in less than six weeks.

For the past 11 years, the Medical Clinic of Big Sky has waited until Thanksgiving Day to make the transition up to the Mountain Clinic, which will then be open seven days a week throughout the ski season. This year, the ski season has been extended through the third Sunday in April. As we've done in the past, we will keep the Town Center Clinic open at least four days per week—Monday, Tuesday, Thursday and Friday. Both will operate as urgent care clinics, prepared to handle ski-related injuries as well as other injuries and illnesses. This is our 24th ski season serving the Big Sky community, and we've seen it all!

Now, we are starting to stock up on the essential items that help us provide the best care to those injured on the slopes. This includes various types of knee braces, the latest technologies in wrist and shoulder stabilization, as well as the basics like crutches and slings.

We're also brushing up on our techniques for treating injuries that we rarely see after the ski season finishes and before the next one begins. A common injury in the ski season is a dislocated shoulder, probably 30 or 40 every winter. When a fast moving adult falls and flails an arm behind, the shoulder joint can be forced to dislocate. Just the sheer number of people skiing and snowboarding and risking a fall is all that it takes to give us such a high number compared to the summer. Golf and fishing are very low risk. Falling off a mountain bike much more commonly leads to a fracture of the clavicle, but we've also had an occasional bike-associated dislocation come in, covered with mud and pine needles instead of snow.

People sometimes ask how I keep "trained" to handle the dislocations that we see mainly in the winter. Well, every few weeks from May through November, I get a new crew of medical students and residents, and I give them all a lecture on diagnosing and treating a dislocated shoulder. First, we discuss the anatomy and look at X-rays. Then I go through my history of learning how to reduce a dislocation and the techniques we used to use. Next, a volunteer lets me pull on their arm in various positions—standing first, then sitting, and finally lying down if it hasn't gotten (theoretically!) back into place.

In the rare instance that I can't reduce a shoulder in a couple of minutes without any drugs, we have to consider conscious sedation to relax the patient. There are several standard drugs that clinics, emergency rooms and hospitals will use to achieve sedation, as well as associated equipment to have on hand if there are problems or complications caused by the procedure.

My students get a kick out of all this, especially the ones who have had their own dislocated shoulders in the past. Even in the summer, most of the clinic's students have outdoor experiences and are avid skiers and snowboarders; many of them have had the typical injuries, like ACL tears and broken clavicles.

So we'll be ready to deal with the ski season when it starts on Thanksgiving Day. Our skis will be tuned and we'll be anxious to hit the slopes. And again, our "pilgrimage" up to the Mountain Clinic will be completed before our turkey dinner.

*Dr. Jeff Daniels was the recipient of the 2015 Chamber of Commerce Cbet Huntley Lifetime Achievement Award and has been practicing medicine in Big Sky since 1994, when he and his family moved here from New York City. A unique program he implements has attracted more than 800 medical students and young doctors to train with the Medical Clinic of Big Sky.*

# Lone Peak Caregivers to open storefront in Westfork Plaza

BY DOUG HARE  
EBS STAFF

BIG SKY – Nine years ago, Philadelphia native Charlie Gaillard decided to move to Big Sky with the intention of opening a medical marijuana dispensary. With a little elbow grease and entrepreneurship, he started Lone Peak Caregivers in the units across from the Whitewater Inn. Five years ago, Gaillard moved into his current location in the Big Horn Shopping Center next to the Big Sky Community Food Bank. Three years ago, LPC expanded to open another dispensary in Ennis.

“We’ve really been growing year after year,” Gaillard said. “The reasoning behind the Westfork shop is to extend the service hours for patients that were unable to get to us because of work hours or other scheduling conflicts.”

Gaillard now employs nine full-time employees and at busier times of the year also has numerous part-time employees. By mid-November, he plans to have a new storefront in the Westfork Plaza open for business.

The current location will operate as usual—as an organic growing operation of over 65 strains of *Cannabis indica* and *Cannabis sativa*, and also as a retail store featuring Montana-made products and art.

“We’re excited to provide patients with a convenient location with expanded hours,” said Sammy Weiffenbach, who will manage the new location. “It’s also another place where we can offer locals and tourists locally-sourced merchandise.”

Medical marijuana has been legal since the Montana Medical Marijuana Act was passed into law in 2004. This past summer, after more than a decade of having a medical marijuana program, the Montana Legislature passed Senate Bill 333, a law that increased regulations on the industry and levied a 4 percent gross sales tax for dispensaries—the first of its kind in the Montana medical marijuana industry.

According to the Department of Revenue, cannabis tax collections for the months of July, August and September totaled \$380,000, from a reported \$7.5 million in gross revenues, exceeding expectations. Notably, only 393 dispensaries of an estimated 610 licensed providers statewide have turned in



Lone Peak Caregivers, owned by Charlie Gaillard, is expanding its medical marijuana operation to include a new storefront in the Westfork Plaza. PHOTO BY DOUG HARE

their quarterly taxes, leading some to infer that the state’s yearly revenue from the newly implemented tax will easily exceed the estimated \$1 million mark.

Early reports from Helena suggest that cannabis tax revenue is slated to fund a statewide marijuana seed-to-sale tracking program and other improvements to regulations on the industry. The cannabis tax is scheduled to decrease to 2 percent in July 2018 and remain at that level for the foreseeable future.

Gaillard is in favor of the new tax and thinks it’s a good way to fill up the state’s coffers. “I think we will see improvements to the industry directly from the revenue it provides.”

The Department of Health and Human Services reported a resurgence in enrollment in the medical marijuana program after the passage of more comprehensive regulatory measures last spring. In November 2016, there were 7,558 registered medical marijuana patients. According to data from the DHHS, that number more than doubled in less than a year, with 17,819 cardholders reported as of this July.

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# MIX IT UP

## Varie-teas

BY CARIE BIRKMEIER  
EBS STAFF

Tea is the world's second most commonly consumed beverage, behind only water. Tea is grown in over 40 countries around the globe, but most predominantly in India, China, Sri Lanka and several other Asian countries.

Many people are surprised to learn that all tea varieties come from the same plant, *Camellia sinensis*. Different varieties of tea are produced by physically altering the shape and chemistry of the leaf through withering, rolling, shaping, oxidizing and drying. Where the plant is grown, the time of year, and the soil, can all affect the profile of the final product.

Oxidization is the most crucial part of tea processing and will define, for the most part, what type of tea is created. Oxidization refers to the process of enzymes, in this case present in tea leaves, interacting with air. The effects of oxidation can be seen when a cut apple or the yellow skin of a banana turns brown after exposure to air. If desired, this browning process can be avoided by applying heat.

The teas listed below are listed in order of unprocessed to processed.

**White tea** is essentially unprocessed. The leaves are plucked, dried, and that's it. Leaves are not rolled, shaped or altered prior to the drying process, and little to no oxidization occurs. The brewed tea is pale green to light yellow in color, and has a mild and delicate flavor and aroma.

**Green tea** is also unoxidized, but avoids the chemical reaction by applying heat. Leaves are plucked, rolled, and then heated by steam or pan-fired in order to stop enzymes from browning the leaves. The liquid produced is green or yellow in color, and the flavor depends on whether the leaves were steamed, which imparts grassy notes, or pan-fired, which lends a toasty quality.

**Oolong tea** is the broadest of varieties, ranging between unoxidized to almost completely oxidized, the difference between green and black teas. In some cases, heat is applied to slow the oxidation process, allowing delicate layers of flavor to emerge, sometimes likened to the layers in a painting. Because of the complex process and range of results, the color and flavor of oolong tea vary quite a bit.

Completely oxidized tea is known as **black tea**. It is the least time consuming to produce, and is often completed in a single day. The color of black tea ranges from red to dark brown, and has the most robust flavor of tea varieties.

Herbs, fruits and spices are often added to any of the above varieties to create herbal teas, such as chamomile or earl gray. Caffeine content in tea is dependent on the amount of oxidation. For example, green tea contains on average 30-35 milligrams of caffeine per 8 ounces, while black varieties can contain as much as 60 milligrams per cup.

Tea contains no fat, gluten, calories, preservatives or sugar. It does contain antioxidants which have been proven to improve overall health, and prevent cancer and cardiovascular disease. So, the next time you decide to steep a cup of any variety, to enjoy warm or chilled, you can rest assured that you're making a healthy choice.



Different types of tea vary in color based on the amount of oxidation they undergo during processing. From left to right: white, oolong, green and black. CC PHOTO

# AMUSE-BOUCHE

*Amuse-bouche refers to an appetizer, and by French translation means, "to entertain the mouth." It offers a glimpse into what you should expect from a meal. Also it's free, compliments of the chef.*

## One of the most perfect foods isn't what you might think



BY SCOTT MECHURA  
EBS FOOD COLUMNIST

With Halloween right around the corner, there seems to be massive displays of pumpkins everywhere. Their commercial window is short compared to others in their family such as zucchini and winter squashes. The reason is simple; we typically only do three things with pumpkins. We carve them into jack-o-lanterns, we roast the seeds, and we make pie with them once a year.

But we are missing out on one of nature's most perfect foods.

Native to Central America and Mexico, evidence suggests pumpkins have been cultivated for nearly 7,000 years. They are in the same gourd family as cucumbers, honeydew melon and zucchini. The word pumpkin originated from the Greek word "pepon." Interestingly, they are one of the only fruits in which the male and female flowers are on the same plant, though only the female flower produces fruit.

Originally pumpkins were not that large or smooth but, much like bell peppers and tomatoes, we have bred them to be more visually appealing.

Something else worth noting: Only pumpkins and tomatoes retain virtually all of their nutritional value during the canning process.

Pumpkins have been part of Thanksgiving festivities since the beginning, but not originally in the form of a perfect crust pie. Rather they were used to make custard in which eggs, cream, honey and spices were combined inside a hollowed-out pumpkin. Then it was baked in the coals of a fire until the outside turned black, and was then scooped out with the custard and soft-baked interior. I'm thinking I'd rather make one of those this year.

But in terms of health and nutrition, it's hard to beat a pumpkin.

A 4-ounce portion only has about 26 calories, and pumpkins contain no saturated fat or cholesterol. They are rich in fiber as well as antioxidants, and are a virtual storehouse of vitamins.

Pumpkins boast one of the highest levels of vitamin A, which supports vision, the immune system and cell growth.

In addition, they are also high in vitamin C, an essential nutrient in tissue repair. This is beneficial since humans, along with monkeys and guinea pigs, do not produce their own.

Next on the vitamin list is E. Vitamin E is essential to our immune system as well as our overall metabolism.

Pumpkins are also an excellent source of the B complex of vitamins, of which there are too many benefits to mention here.

In addition, they contain zeaxanthin, which is a strong filter against ultra violet rays, thereby protecting our skin and complexion.

They also have countless polyphenolic compounds which then get converted to yet more vitamin A.

As if that isn't enough, pumpkins are rich in copper, calcium, potassium and phosphorus.

Given the nutritional value, low price and color—studies show orange is the most appealing food color to humans—it's perplexing to me why pumpkins aren't utilized more.

I like to flavor hummus with it periodically, and occasionally fold some pumpkin puree into my mashed potatoes. For me, pumpkin is far more useful and nutritious than to be used solely for flavoring your Starbucks latte.

*Scott Mechura has spent a life in the hospitality industry. He is a former certified beer judge and currently the Executive Chef at Buck's T-4 Lodge in Big Sky.*



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STEM Saturdays run through November 18th from 10:00 am-12:00 pm. Advanced registration is recommended. \*Ages 10 and under must be accompanied by an adult.

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Advanced registration is required for all programs, and many programs fill quickly. For more information, email [nancy@bigskydiscoveryacademy.org](mailto:nancy@bigskydiscoveryacademy.org)

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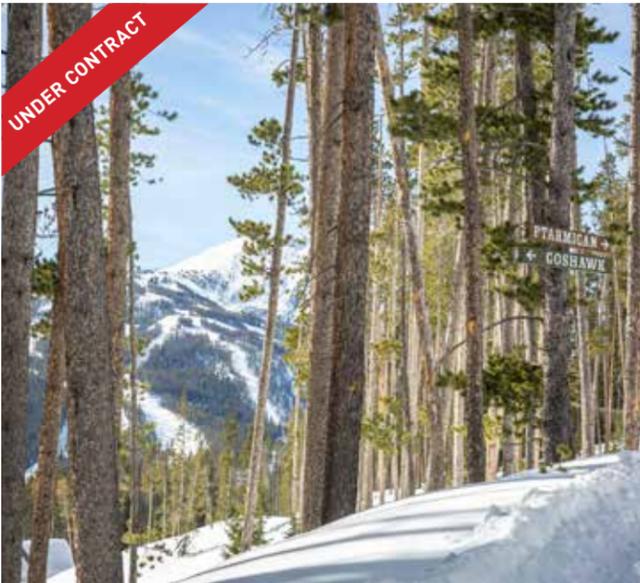
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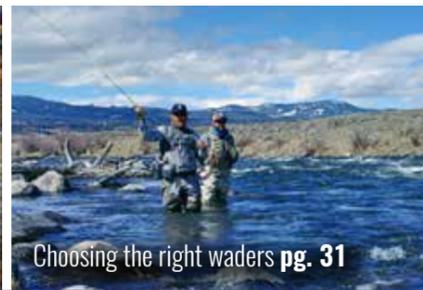
## Section 3: OUTDOORS, FUN & BACK 40



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'Reel Rock 12' pg. 29



Choosing the right waders pg. 31

# INSIDE YELLOWSTONE



## Ski with a pro at the Yellowstone Ski Festival Registration now open for the November event

EBS STAFF

Get a jump start on your 2017-2018 ski season during the Yellowstone Ski Festival Nov. 21-25 in West Yellowstone on the Rendezvous trail system. The event's highlights include a series of Nordic skiing clinics, competitive races, a biathlon race, on-snow gear demos, an indoor ski show and a variety of presentations and clinics.

For the past 30 years cross country skiers from around the U.S. and Canada have started their ski season in West Yellowstone. An estimated 3,500 skiers attend the event each year and according to event coordinator Emily Lovett, the clinics fill up quickly.

The clinics are taught by dedicated Nordic skiers, who will teach a number of drills to help skiers gain efficiency and strength. The coaching staff is comprised of world-class skiers, coaches and professional instructors. Coaches will rotate through the various classes so participants will get exposure to different coaches throughout the week.

Some of the special clinic offerings include:

- 5- and 3-day Skate & Classic Technique for Performance (all levels)
- 3-day Skate & Classic Camp for Master Racers
- 2-day Skate & Classic Tune-up
- 2- and 1-day Improve Your Skate Technique
- 1-day Improve Your Classic Technique
- 1-day Classic Touring (new to Nordic skiing)
- 1-day Learn to Skate Ski
- 1-day USSA Level 100 Coaching Certification Technique Clinic
- Women, Wine and Wax/Whiskers, Whiskey and Wax



The Yellowstone Ski Festival in West Yellowstone Nov. 21-25 gives cross country skiers a chance to gear-up for the season with clinics, demos, lectures and races. PHOTO BY JENETTE SETTLE

Beyond pre-season instruction and fitness, the Yellowstone Ski Festival is a touchstone event for cross country ski culture, with on-snow demos, an indoor expo and lectures in the evenings. There are also several races scheduled during the week, including a biathlon, as well as several distance competitions.

"Enjoy your first tracks in West Yellowstone," the event organizers said in a press release. "Whether first tracks truly means the corduroy and you, or it is the first time on skis this season, or the first time on skis period; you are invited to take them at the Yellowstone Ski Festival."

Visit [skirunbikemt.com/yellowstone-ski-festival.html](http://skirunbikemt.com/yellowstone-ski-festival.html) for more information, to see the full schedule or to register.



All roads in Yellowstone National Park close at 8 a.m. on Nov. 6 except the road between the North Entrance and the Northeast Entrance.

## Lookout project would hurt views at Mt. Washburn

BILLINGS (AP) - Communications towers proposed for a historic fire lookout and popular hiking destination in Yellowstone National Park would detract from its views, park officials have determined.

The finding has triggered consultations with Wyoming preservation officials to look for ways to minimize the impact.

Yellowstone is proposing to erect a three-sided mounting structure with 40-foot towers for cellular antennae and other equipment around the Mt. Washburn Fire Lookout.

It's part of a broader effort to improve Yellowstone's wireless infrastructure and cell service in developed areas—changes that have sparked debate over how much connectivity is appropriate in a park that for many visitors offers an escape from an increasingly linked-in world.

The determination that the Mt. Washburn proposal would have an "adverse" visual effect was included in a letter from Yellowstone Superintendent Dan Wenk to preservation officials that was obtained by Public Employees for Environmental Responsibility.

Park officials will consult with Wyoming's historic preservation office on ways to minimize or offset the equipment's visual impact, said Yellowstone spokeswoman Morgan Warthin.

The new towers and mounting structure would allow for the removal of telecommunications equipment that's been installed on the lookout tower over the course of decades, park officials have said.

Wyoming Historic Preservation Officer Mary Hopkins said that would benefit the structure itself but there still would be visual impacts.

"I don't think it's going to look any worse," Hopkins said. "Our concern is the historic structure and the effect on that only—not whether there's cell service."

Public Employees for Environmental Responsibility executive director Jeff Ruch said the park was making a bad situation worse.

"It was ugly and it's about to get ugly squared," Ruch said. "Given the nature of what they're proposing, we're not sure how you can eliminate the adverse impact other than by putting a cloak of invisibility on the whole structure."



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## New Yellowstone youth campus plan approved

EBS STAFF

Yellowstone National Park plans to construct a new youth campus at Mammoth Hot Springs to replace and improve the park's existing education facilities. NPS Intermountain Regional Director Sue Masica approved the project on Oct. 4.

The current campus was constructed in 1978. Functionally out of date, the inadequate dormitory, classroom and office space do not meet the needs of today's students and staff, according to a press release from the National Park Service. The release also notes that the accessibility, energy efficiency and parking are deficient at the existing educational facilities.

The new campus buildings will be designed and constructed to meet the Living Building Challenge, a green building certification program and sustainable design framework that requires performance standards demonstrated over 12 consecutive months. For example, 105 percent of the campus's energy needs must be supplied by on-site renewable energy on a net annual basis, without the use of on-site combustion.

A portion of the campus will be built on a previously disturbed site. The development will allow for overnight stays for up to 140 students at a time, which is more than double the capacity of the current facility.

"The youth campus will be funded through a combination of philanthropic donations received by our nonprofit partner, Yellowstone Forever, and federal support," said Yellowstone Superintendent Dan Wenk in a press release.

"The campus we build together will teach sustainability. It will facilitate high quality learning experiences and inspire students to be life-long learners and stewards of Yellowstone long into the National Park Service's second century."

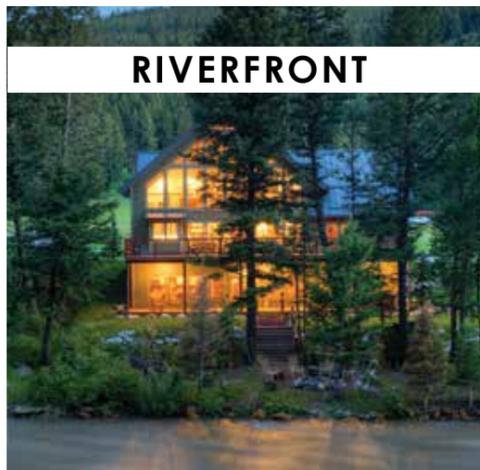
The anticipated completion date for the new campus will be 2022, Yellowstone's 150th anniversary.

Documents associated with this decision, including an environmental assessment and a finding of no significant impact, can be found through the Planning, Environment and Public Comment (PEPC) system at [parkplanning.nps.gov](http://parkplanning.nps.gov).

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# Inside the Big Sky

By Derek Lennon

## Fall is the best time for spotting bald eagles

BY DEREK LENNON  
EBS CONTRIBUTOR

In 1782, the Second Continental Congress declared the bald eagle a national emblem of the United States. As the national bird and U.S. mascot, the bald eagle is easily the most iconic and identifiable bird for Americans.

After a severe population decline, the eagle became protected under the Bald and Golden Eagle Protection Act of 1940. Since then, bald eagles have thrived in their native habitat of North America—especially in Montana and the Greater Yellowstone Region. In 2007, the bald eagle was removed from the federal list of Threatened and Endangered Species in the Lower 48. Today, bald eagles are a common sight across the Treasure State.

Bald eagles live in Montana all year long, but the best time to spot one is during the fall. As bald eagles migrate south from Alaska and Canada in search of food and warmer temperatures, the Montana population increases. Keep your eyes peeled in forested areas near rivers and lakes and you'll likely spot a bald eagle or two.

### Some interesting facts about bald eagles:

- The scientific name for a bald eagle is *Haliaeetus leucocephalus*.
- Bald eagles only live in North America.
- Montana is home to over 500 active bald eagle territories.
- Their white heads and tails, dark brown bodies, and yellow bill are unmistakable.
- Eagles do not develop their identifiable plumage until about 5 years of age.
- They are the second largest bird of prey in North America—only the California condor is bigger.
- Bald eagles measure approximately 3 feet head to tail.
- Their wingspan ranges from 6 to 8 feet.
- Females are generally 25 percent larger than males.
- They weigh 9 to 14 pounds, but their skeleton only weighs about half a pound.
- Bald eagles have approximately 7,000 feathers.
- Bald eagles can fly at 35 to 44 mph, but can swoop at 100 mph to catch food.
- They can soar for hours at a time and reach heights of 10,000 feet.
- Bald eagles tend to make chirps and whistle sounds.
- These birds live an average of 28 years, but the Smithsonian says they can live up to 50 years.
- Bald eagles are carnivores that eat salmonids, suckers, whitefish, carrion, and small mammals and birds.
- They tend to live in forested areas along rivers and lakes.



Fall is one of the best times to spot bald eagles in southwest Montana as migratory birds boost the area's year-round population. NPS PHOTO

- Bald eagle nests are called aeries. Aeries are typically built in the oldest, largest diameter trees, usually ponderosa pine, Douglas fir and cottonwoods.
- Aeries are built out of branches and sticks and then lined with grass, plants and pine needles. They are often used for multiple years.
- Nests can be up to 12 feet high, 8 feet across and weigh up to 2,000 pounds.
- Bald eagles breed at 5 to 6 years of age.
- Females lay one to three eggs in March or April. The eggs are incubated by both male and female for roughly five weeks.
- Baby eagles are called eaglets. They attempt their first flight at 10 to 12 weeks.

There's something special about spotting a bald eagle in the wild. It's fun to see these iconic and powerful birds soaring overhead while in Yellowstone National Park or swooping down on your favorite lake while fly fishing.

*Derek Lennon is a skier and writer who lives, works, and plays in the mountains of the world. He is based in Big Sky, Montana, where he lives with his wife Mia and two dogs.*

*A version of this story was originally published on the Visit Big Sky blog at [visitbigskymt.com/interesting-facts-bald-eagles/](https://visitbigskymt.com/interesting-facts-bald-eagles/). Read more interesting content about the area on Visit Big Sky's blog at <https://visitbigskymt.com/category/blog/>.*



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## Big Sky Fire Department's Halloween Festivities

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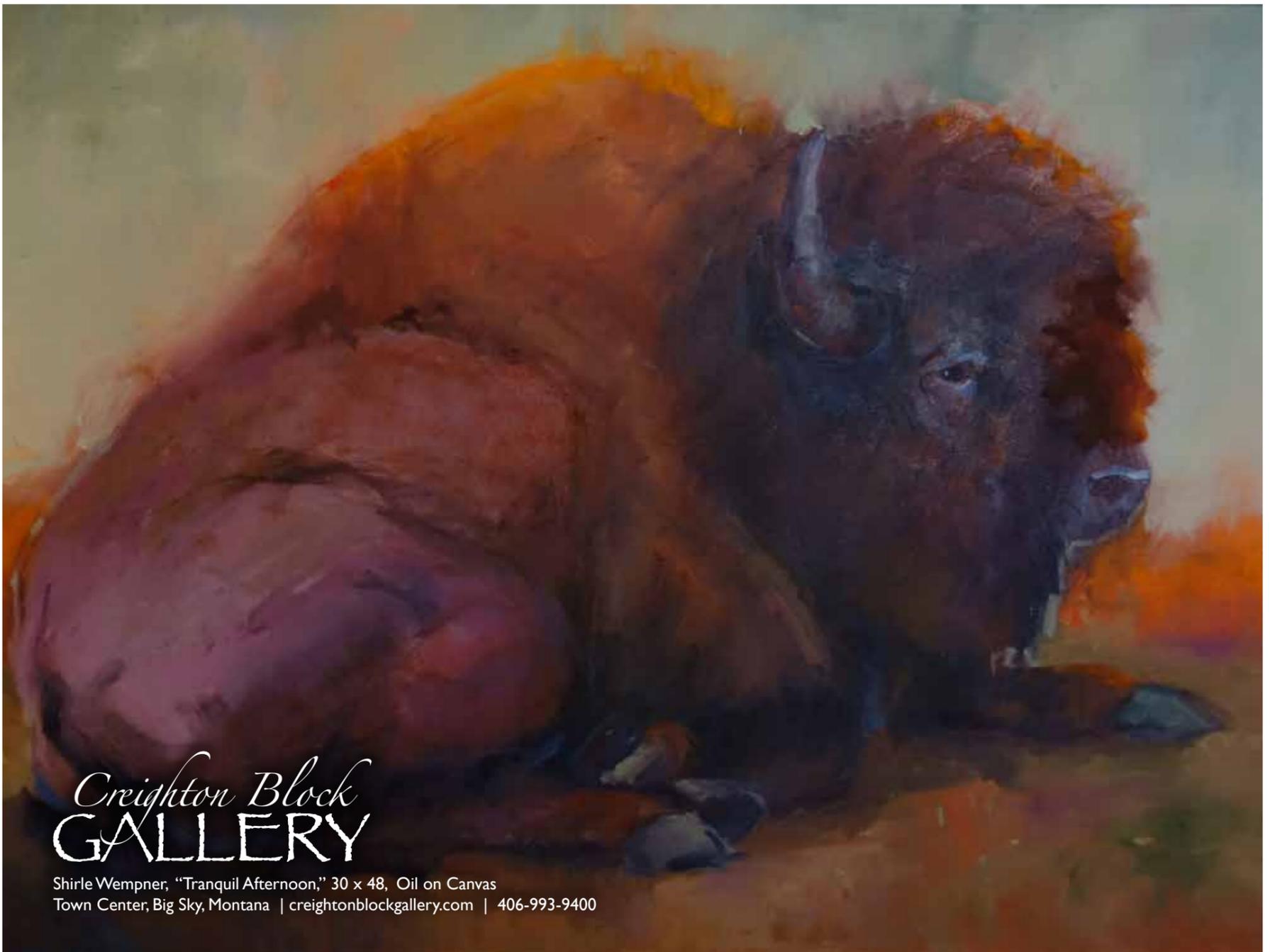


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## 'Reel Rock 12' shows in Bozeman Nov. 8

EBS STAFF

"Reel Rock 12," released by Sender Films and Big UP Productions, will premiere four short climbing films in their annual tour that promise to deliver action, humor and inspiration. This year's lineup features Margo Hayes, the first woman to climb a 5.15 grade; Brad Gobright, an up-and-coming free soloist; the return of Chris Sharma to the deep-water soloing stage; and Maureen Beck, a one-handed climber who tackles tough overhanging boulders.

"The Reel Rock Film Tour continues to grow and evolve each year," festival cofounder Peter Mortimer said in a press release. "The films have always brought the climbing world together, but with the ever-increasing number of events now accompanying the screenings, climbing greats and fans alike can compete, network, socialize and give back to the community."

The tour kicks off with premiere events in New York City, Seattle and Boulder in early November and will screen at over 500 locations worldwide, including Bozeman on Nov. 8. Below is a brief description of the documentary shorts showing during this year's tour.

### "Break On Through"

In high-end modern rock climbing, 5.15 is the top of the difficulty scale, a grade achieved by only a few men and never by a woman. Margo Hayes, a little known 19-year-old from Boulder, Colorado, is determined to change that. To be closer to the world's hardest routes, she has moved to Europe, where she trains and climbs with the goal of succeeding on two of the most iconic 5.15 routes in France and Spain. But pushing her body and mind to the absolute limit, she risks injury and failure in her quest to be the first.

### "Above the Sea"

Chris Sharma remains the world's greatest practitioner of deep water soloing—climbing ropeless above the sea. Ten years after his generation-defining ascent of a majestic arch, Sharma returns to the Mediterranean island of Mallorca where he discovers a beautiful, sweeping wall with small holds running up its face. If he can link the moves, and endure the numerous heart-stopping plunges into the sea, he will establish what may be the world's hardest deep water solo climb.



Maureen Beck was born missing her lower left arm, but in the film "Stumped," you'll see that hasn't stopped her from a life of climbing.  
PHOTO BY CEDAR WRIGHT

### "Safety Third"

For most climbers, it's safety first. But Brad Gobright is definitely not like most climbers. Fueled by day-old donuts and unhindered by a fear of falling, this young talent is pushing the limits of traditional and free solo ropeless climbing. Having survived a few big scares, Gobright is determined to make his boldest ascent yet—a first-ever free solo of an exposed and difficult route.

### "Stumped"

Maureen Beck may have been born missing her lower left arm, but that hasn't stopped her from going hard. She pushes her "stump" to the limit, takes whippers on a 5.12, and crushes overhanging boulders, while shotgunning beers between burns. But she is not here to be your inspiration. "People say, 'Look, a one-armed climber, now I have no excuses.' I'm like, 'dude, you never had any excuses in the first place.'" A fascinating profile of a fascinating rock climber.

*The Bozeman showing is scheduled for 7:30 p.m. on Nov. 8 at Emerson Center for the Arts and Culture in Bozeman. For more information visit [reelrocktour.com](http://reelrocktour.com).*

## Ski swap heralds in ski season

BRIDGER SKI FOUNDATION

Known as an iconic Bozeman event that heralds the beginning of ski season, the Bridger Ski Foundation's Annual Ski Swap will mark its 50th year Nov. 4-5, at the Gallatin County Fairgrounds.

Winter recreationists can find just about any kind of equipment at the swap, from cross-country skis to fat powder skis, snowshoes, poles, backpacks, clothing, boots and more. For those looking to upgrade their equipment this season, the swap is also a chance to sell old equipment.

BSF takes a 20 percent commission if a consignment item is sold, and the volume of sales makes it the biggest fundraiser of the year for the nonprofit club, which provides ski programs for more than 600 youth and adults and also grooms an incredible network of community Nordic ski trails.

"But it's more than just a fundraiser for us," said BSF Executive Director Swithin McGrath. "This is a community event. It's part of how we help the community (and our athletes) source affordable equipment and sell their used gear. It keeps skiing more affordable for everyone." And, she added, it's just a

fun weekend where you bump into old friends and begin to get excited about ski season.

The ski swap also brings in thousands of items from local retailers, who sell their rental gear and leftover inventory at the swap. Those endless tables of hats, mittens and gloves? Most of them are brand new, being sold at a steep discount.

For those who are selling items, BSF suggests cleaning up gear that will be for sale, as this will help items sell. Also know the size, color and brand of each item. Consignment items can be dropped off at the fairgrounds on Nov. 3 between 10 a.m. and 7 p.m. with a cash-only fee of \$1 per item. Items that do not sell during the swap will be posted to the BSF website and must be picked up Nov. 5 between 2 and 5 p.m.

The annual ski swap will run from 10 a.m. to 6 p.m. on Nov. 4 and from 10 a.m. to 2 p.m. on Nov. 5. BSF members will have an opportunity to get in an hour early both days.

*For additional information on the Annual Ski Swap, visit [bridgerskifoundation.org/skiswap](http://bridgerskifoundation.org/skiswap).*



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# EDDY Line

## Wading through the many options of waders



BY PATRICK STRAUB  
EBS FISHING COLUMNIST

Halloween means costumes and frosty pumpkins. It also means the season of “wet-wading”—or fishing without waders—is over. Many of my longtime clients know I push the wet-wading envelope to the fullest, often sporting shorts and long johns well into October. But there’s a line that is crossed this

time of year and waders have to be worn.

For the next several weeks, nearly all of our local fishing options are viable—and wise—places to wet a line. Waders now become an essential component to your angling repertoire, and will remain so for the next six to eight months of the angling calendar. But, with the many options on the market, from stocking foot to wading pants to boot foot to zippered waders, it’s easy to drown in the myriad of choices. Here’s some help from nearly a quarter-century of wearing waders.

**Breathable versus non-breathable.** This may be the simplest choice of all. Most anglers fish in a variety of weather throughout the year. Unless you only fish during the coldest months, purchase breathable waders instead of thicker neoprene waders. Breathable waders are made from a variety of fabrics, with each manufacturer touting their material is the best.

My advice: quality is often associated with price, and most higher price-point waders are of similar quality. Plus, with the more expensive waders you may also get better repair or replacement treatment.

**Stocking foot waders.** These are the most common waders purchased and most likely what you will end up using the most. They include a stocking foot made of neoprene or other material. Some manufactures like Patagonia incorporate a lined stocking foot in their high-end wader, which is nice for the colder months. With stocking foot waders, purchasing wading boots is essential.

Similar to waders, wading boots come in a variety of options. Because stocking foot waders do not incorporate a boot foot into the wader, you can have a few different pairs of wading boots, which is helpful if you plan to fish on a rocky stream or in a boat, or cover a lot of water walking the banks.

**Boot foot waders.** Boot foot waders incorporate a boot into the wader itself. Welded onto the legs of the wader are laceless boots. These are ideal for fishing situations in which sturdy wading shoes are not essential—like fishing from boat or a stream with a flat, non-slippery bottom. Since the latter rarely exists here in southwest Montana, only purchase boot foot waders if you plan to do most of your fishing from a boat.

**Wading pants.** These are breathable waders that do not incorporate a suspender system and are only waist-high. Because I spend more time on the water than most, I wear my boot feet in the boat in winter, my stocking foot



The right pair of waders can make or break a day of fishing. Whether fishing near or far from home, choose your wader purchase wisely and you can fish in any kind of weather and in any kind of water. PHOTO BY KELLY HARRISON

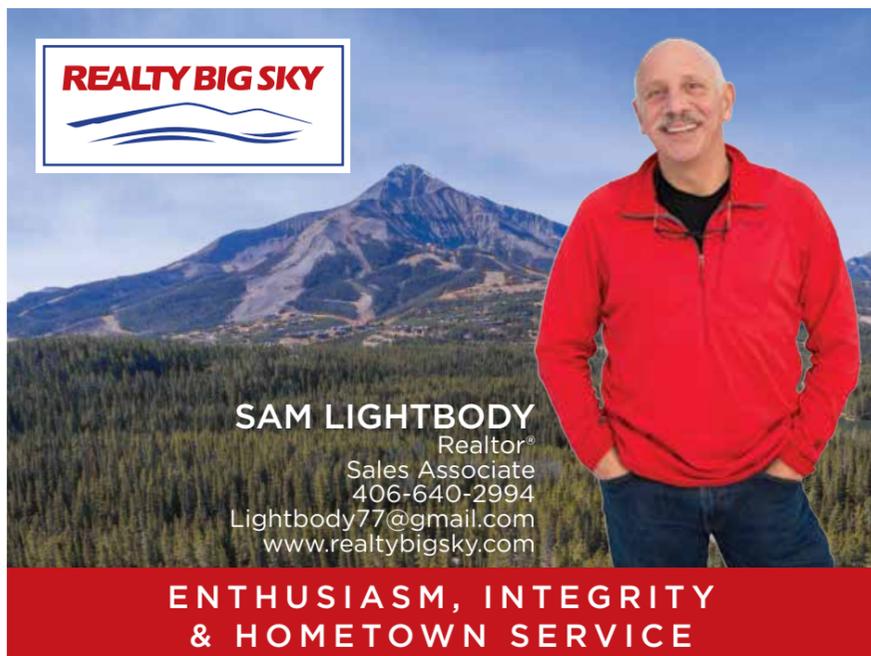
when I’m covering some ground on a spring creek, and my waist-high wading pants in warmer weather when I know I will not be wading deep. And, therein lies the only drawback to wading pants—you are limited to how deep you can wade. I find wading pants ideal for early spring and late fall fishing and for anglers who know their wading limitations and wear wading pants to keep them from wading too deep.

**Zipper waders.** Relatively new to the wading scene, zippered waders have increased the comfort level for many anglers. By comfort level, I mean making it easy to relieve oneself when nature calls. I used to scoff at zippered waders citing their potential for leaking, but then I began wearing them this year, but only the top quality ones. And now a pair of zippered waders is my go-to stocking foot option.

In colder weather, the zipper is a godsend when I need to use the bathroom and in warmer weather, the un-zipped chest allows me to cool off if I get hot. Zippered waders are the most expensive choice but for this stuck-in-his-ways angler, I wish I’d made the right decision years ago.

Like a favorite rod in your gear arsenal, your waders should hold considerable prestige. If you plan to fish the next six months, choosing the right pair is essential to maximize comfort and your ability to get the most out of your fishing. Wading through the options may seem laborious, but do your homework and ace your fishing this winter.

*Pat Straub is one of area’s most respected spring creek and walk-wade guides. He is the author of six books, including “The Frugal Fly Fisher,” “Montana On The Fly,” and “Everything You Always Wanted to Know About Fly Fishing.” He and his wife own Gallatin River Guides in Big Sky.*



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# On the Trail: Lemondrop Trail

Explore local hiking, biking and equestrian trails with Big Sky Community Organization's trail series.

BY CIARA WOLFE  
BSCO EXECUTIVE DIRECTOR

Fall weather came back to Big Sky, giving us a few more sunny days to get out on the trail. During that sun-streak I chose to hike up Lemondrop Trail, also known as Lemon's Knob. The trail is named after the Lemon family, early settlers in Gallatin Canyon who first purchased Twin Cabins Camp, now the site of Rainbow Ranch Lodge.

Lemondrop Trail begins at the Twin Cabins Trailhead 5 miles south of the traffic signal at the junction of Highways 191 and 64 in Big Sky. The trailhead is located behind Rainbow Ranch Lodge, on the other side of the Gallatin River and to the left.

The hike to the top of the knob and back is approximately 3.7 miles, and provides excellent 360-degree views of Gallatin Canyon, the surrounding mountains and the Gallatin River. From the trailhead, hike approximately 2 miles to a saddle where the trail intersects with Porcupine Creek Trail. Veering left at this junction will take you up to Lemon's Knob.

The trail climbs quickly from the trailhead before plateauing on a saddle that looks north into the Porcupine Creek drainage. Porcupine Creek Trail continues south along this saddle. By taking a left you will climb small Lemon's Knob to the west, and come down the same way.

When trail conditions are wet, there is an additional unmarked trail at the north end of the trailhead that climbs a south-facing slope up onto the saddle where the trail connects with Porcupine Creek Trail. This route is dryer than the marked trail that meanders through the forested gully, and is the recommended route during muddy conditions. Both trails are heavily used by horses and well-defined.

The Lemondrop Trail leads into the Hyalite-Porcupine-Buffalo Horn Wilderness Study Area, so motorized vehicles are not allowed. Signage at the trailhead explains the Porcupine Aspen Project, which entails cutting down conifer trees and prescribed burns. This will enhance new growth in aspen stands that play a vital role in the ecosystem and creates habitat and forage for big game and upland birds.

The area is a popular access point for hunting, so remember to wear your blaze orange during the fall season and be bear aware while recreating in the area.

*For more information about Big Sky's parks, trails and recreation programs, visit [bscomt.org](http://bscomt.org). The Big Sky Community Organization is a local nonprofit that connects people to recreational opportunities by acquiring, promoting and preserving sustainable places and programs for all.*



Located directly behind Rainbow Ranch Lodge, Lemondrop Trail leads to the top of Lemon's Knob and back in under 4 miles.  
PHOTO BY CIARA WOLFE



## TRAIL STATS

Distance	Uses	Difficulty	Elevation	Surface
3.7 miles round trip	Hiking, running, biking and horses	Intermediate	1,135 feet change	Dirt

**Directions:** Take Highway 191 5 miles south of the traffic light at the junction of Highway 64. Turn left at Rainbow Ranch Lodge and take a bridge across the Gallatin River. Take an immediate left; the dirt road will lead to the trailhead where there is ample parking, an outhouse and horse hitches.

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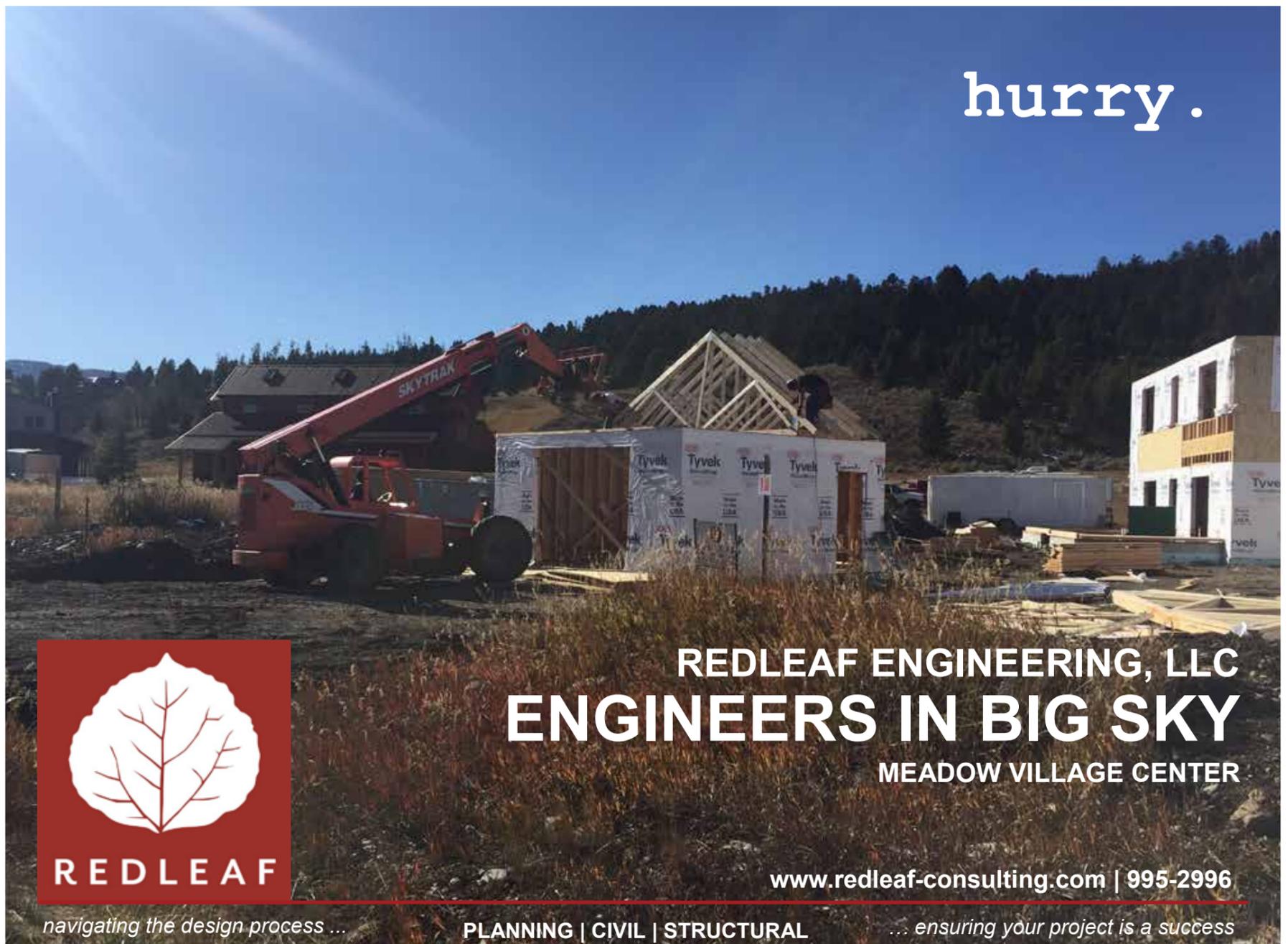
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# BIG SKY BEATS

BY BAY STEPHENS  
EBS EDITORIAL ASSISTANT

Find out what tunes we're bumping! In Big Sky Beats, Explore Big Sky staff suggest tracks for your next playlist. Whether you need to freshen up your music library, want to expand your collection or just need some tunes for the time being, we've got you covered.

Oogie boogie!

Scared yet? No? Ok well, I guess that makes sense, considering this is a page in a newspaper. It was still worth a shot!

Speaking of scary, we've rigged up a Halloween set list for boogying through the spooky holiday. These songs might make you want to dance like a vampire (that is, alone and somewhere dark where no one can see you) or to howl and jive like a werewolf in good company.

Either way, throw the chill from those old bones with some freaky dance moves!

1. "Thriller," Michael Jackson
2. "Love Shack," The B-52's
3. "Brick House," Commodores
4. "Monster Mash," Bobby "Boris" Pickett and the Crypt-Kickers
5. "Witching Woman," The Eagles
6. "Moondance," Van Morrison
7. "Superstition," Stevie Wonder
8. "Ghostbusters - From 'Ghostbusters,'" Ray Parker, Jr.
9. "Uma Thurman," Fall Out Boy
10. "Werewolves of London (45 version)," Warren Zevon

## CROSSWORD PUZZLE

- ACROSS**
- 1 "\_\_\_ Abner"
  - 4 Aleutian island
  - 8 Vishnu's serpent
  - 12 Father: Arabic
  - 13 Banana genus
  - 14 Plant of the iris family
  - 15 Computer chip
  - 16 Raw
  - 18 Coptic clergyman
  - 20 Defiant shout
  - 21 Abstract being
  - 25 Sputnik dog
  - 29 Emery
  - 32 One
  - 33 Pack down
  - 34 Eur. finch
  - 36 Celsius (abbr.)
  - 37 Husband of Jezebel
  - 39 Easy job
  - 41 Of punishment
  - 43 Of birth
  - 44 Youth
  - 46 Benevolent and

- Protective Order of Elks (abbr.)
- 49 Lade (2 words)
  - 55 Adjusted gross income (abbr.)
  - 56 Spruce
  - 57 Husband of Halcyone
  - 58 Pitch
  - 59 Glacial trough
  - 60 Madame Bovary
  - 61 Woman: obs.

- DOWN**
- 1 Byron poem
  - 2 Dayak people
  - 3 Sawyer
  - 4 \_\_\_ Darya River
  - 5 Press for payment
  - 6 Shak. contraction
  - 7 Kernel (pref.)
  - 8 Haw. island

ANSWER TO PREVIOUS PUZZLE

U	P	C	F	R	A	E	T	A	A	L
R	E	O	L	O	B	B	I	A	N	A
A	T	M	U	N	R	U	F	F	L	E
L	O	M	A			R	A	F		
		O	F	F	E	R	D	I	N	G
H	E	D	G	E	G	A	P	N	A	R
A	L	I	M	I	M	U	S	R	A	D
N	U	T	S	L	I	K	E	R	A	Y
S	L	Y	P	E		E	U	R	U	S
		A	V	A		R	I	C	H	
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D	E	B	T	A	A	R	E	H	A	M
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- 9 Scot. alder tree
- 10 Give (Scot.)
- 11 Annex
- 17 Mulberry of India
- 19 S.A. herb
- 22 Explosive letters
- 23 Killer of Castor
- 24 Red dye
- 26 Arraign
- 27 Bleaching vat
- 28 Tamarisk salt tree
- 29 Poor-quality goods
- 30 US dam
- 31 Ancient weight
- 35 To yield profit
- 38 Aesir god
- 40 Vehicle compartment
- 42 Resin
- 45 Carplike fish
- 47 Irish writing
- 48 Ireland
- 49 Limited (abbr.)
- 50 Gold (Sp.)
- 51 Eastern church chalice veil
- 52 Rapid eye movement (abbr.)
- 53 Sports hall
- 54 Oxygen (pref.)

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A77

## American Life in Poetry: Column 657

BY TED KOOSER, U.S. POET LAUREATE

I was deeply moved by this week's poem, which shows us the courage of a person struggling with a disability, one that threatens the way in which she wishes to present herself. It illustrates the fierce dignity that many of us have observed in elderly people. Wesley McNair served five years as poet laureate of Maine, and his most recent book is "The Unfastening," published by David R. Godine.

### My Mother's Penmanship Lessons

By Wesley McNair

In her last notes, when her hand began to tremble, my mother tried to teach it

the penmanship she was known for, how to make the slanted stems

of the p's and d's, the descending roundness of the capital m's, the long

loops of the f's crossed at the center, sending it back again and again

until each message was the same: a record of her insistence that the hand

return her to the way she was before, and of all the ways the hand had disobeyed.

We do not accept unsolicited submissions. American Life in Poetry is made possible by The Poetry Foundation ([www.poetryfoundation.org](http://www.poetryfoundation.org)), publisher of Poetry magazine. It is also supported by the Department of English at the University of Nebraska-Lincoln. Poem copyright ©2016 by Wesley McNair, "My Mother's Penmanship Lessons," from "The Unfastening" (David R. Godine, 2017). Poem reprinted by permission of Wesley McNair and the publisher. Introduction copyright © 2017 by The Poetry Foundation. The introduction's author, Ted Kooser, served as United States Poet Laureate Consultant in Poetry to the Library of Congress from 2004-2006.



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# BACK40

For Explore Big Sky, the Back 40 is a resource: a place where we can delve into subjects and ask experts to share their knowledge.

**Noun:** wild or rough terrain adjacent to a developed area **Origin:** shortened form of “back 40 acres”

## The first ‘resorts’ of Gallatin Canyon

### A history of homesteaders, prospectors and dude ranches

BY ANNE MARIE MISTRETTA  
EBS CONTRIBUTOR

Throughout the latter half of the 19th century, trappers, prospectors and loggers trekked into the relatively untouched and pristine Gallatin Canyon to harvest its resources.

The earliest residents traveled through the unforgiving Gallatin and Jack Creek drainages in the 1880s searching for good land for grazing and potentially profitable homesteads. Ranching here was challenging for homestead families, who were often crammed into log structures that were poorly insulated against a harsh climate. Dryland farming in high altitudes tested homesteaders’ hardiness, self-sufficiency and spirit.

As early as the first decade of the 20th century, some residents began to realize that, rather than mining and timbering, it was the area’s landscape and tourism possibilities that held the promise of an economic motherlode. At that point, change was truly underway in the Gallatin Canyon, culminating later in the century with the opening of Big Sky Resort.

Tom Michener, among Gallatin Canyon’s first champions, hoped his slog up the riverbed road would be rewarded by the mineral fortune that surely lay in the mountains and streams.

“The Gallatin Basin ... is destined someday to become one of the main wealth producing parts of the county,” Michener wrote in a Seattle magazine in 1908. “The most important part ... is its undeveloped mineral resources.” Michener established and sold stocks in the West Fork Mining Company, owned by Hercules Dredging Company and Eureka Improvement Company of Spokane and Seattle.

Walter Cooper, another entrepreneur, sought riches in timber standing in the Upper Gallatin watershed. Backed by Helena money, he formed the Cooper Tie Company in 1904 and set up a tie hacker camp in Eldridge on the Taylor Fork, supplying railroad ties to the Northern Pacific Railroad.

Michener’s West Fork Mining Company failed to produce much gold, and mining in general didn’t “pan out” here, so to speak. Cooper Tie folded four years after it began.

Many homesteaders abandoned their ranches and moved on. But some ranchers continued to work hard to eke out a living and build a community.

Although the canyon developed first, the West Fork drainage (now the Meadow) saw successful homesteading in the early 1900s. The Crail Ranch, a section and a half (960 acres), dominated what is now known as Meadow Village, through two generations of Crails. Crail neighbor Clarence Lytle,



Located halfway between Yellowstone National Park and Gallatin Gateway, the Half-Way Inn, pictured here in 1919, was formerly the Dew Drop Inn and would become the Rainbow Ranch.



Lilian Crail and her Chicago friends prepare the 1915 Dodge camper for their trip into Yellowstone National Park circa 1920s. PHOTOS COURTESY OF HISTORIC CRAIL RANCH

who ranched an adjacent quarter section (160 acres), sold out to Julius Butler and Don Kilbourne (the B Bar K) in 1926. Henry Johnson sold his 160-acre homestead on the South Fork in the 1950s to the McBrides.

#### Dude ranches – Big Sky’s first resorts

As early as 1906, ranchers along the Gallatin supplemented their finances by enticing Yellowstone visitors to extend their vacations “dude ranching.” Sam Wilson, owner of Buffalo Horn Ranch and Resort (now the 320 Ranch), collaborated with Michener, who owned a ranch near the current Conoco gas station, to regulate rates for the dude ranches. For \$12 a week—plus another \$6 for a horse—vacationers could escape urban stress by renting a cabin, donning chaps and tackling ranch chores.

Many of the area’s current resorts opened their doors to tourists throughout the early 1900s. The Lemon Family purchased the Dew Drop Inn in 1919, renaming it Half-Way Inn (now Rainbow Ranch). They offered lodging, a café, a gas station and convenience store, and “dude” activities. The B-K evolved into a boys’ camp and eventually became the Lone Mountain Ranch.

Pete Karst, mail and supply freighter for Cooper Tie camp, acquired the Cold Springs Ranch when Cooper’s operation folded. The 1910 railroad extension to Gallatin Gateway was a boon for the Karst Kamp and other dude ranches, such as Elkhorn and Covered Wagon, that cropped up along the improved “Gallatin Way to Yellowstone.” Buck and Helen Knight relocated from Paradise Valley to build a resort on the old Stillman ranch in 1945.

Eventually the Crail Ranch, which operated as a ranch for a half century, succumbed to dude ranching under new owners in the 1950s. It was the intact Crail Ranch, along with the timberlands of Andesite, that became core elements of Huntley’s vision for Big Sky Resort.

When Huntley’s Big Sky Resort opened in December 1973, he reached across the country, inviting visitors to experience this exhilarating environment of unique natural resources that had lured and satisfied tourists for nearly a century.

As Michener predicted, this area has become an economic engine not only for Gallatin County but also for the region and entire state. Michener had foreseen the value of tourism, but real estate and resort resources have exceeded his wildest visions.

*Anne Marie Mistretta is the chair of the Historic Crail Ranch Conservators, and has been active with Crail Ranch preservation since 2003.*

## Section 4: OUTDOORS, FUN & BACK 40

Windhorse Equine Learning pg. 38

'Infinite Landscape' exhibit pg. 41

Horrorfest schedule pg. 42



## Carol Guzman wields a paintbrush to protect public lands

BY SARAH GIANELLI  
EBS ASSOCIATE EDITOR

BIG SKY – Bozeman artist Carol Guzman's passion for the natural world rivals her devotion to painting. That's because without protected lands and their resident plant and wildlife, Guzman would have to find other sources of inspiration for her artwork.

"It's what feeds my art," Guzman said. "When I go out, I want to paint what I'm seeing. It gives me a greater feeling of intimacy when I can watch how the animal interacts with and is affected by its environment."

A diverse artist whose subject matter has included Western toys, South of the Border scenes, and Native American artifacts, shifting focus likely wouldn't be difficult for Guzman, but for the past eight years she has been captivated by wildlife, especially birdlife.

Of the paintings in an exhibit opening at Bozeman's Old Main Gallery and Framing on Nov. 4, "Nesting Sandhill" is one of her favorites. A depiction of the migratory bird on a nest in northeastern Montana's American Prairie Preserve, "Nesting Sandhill" is a perfect example of Guzman's process, which begins with curiosity and sustained observation.

"It was an experience to see her on the nest," said Guzman, describing the rare visual treat. Typically, Guzman takes photographs for reference while creating the oil painting in her studio. For landscapes, Guzman often works in plein air.

"People don't realize there are so many birds up on the prairie," said Guzman, who will be donating some of the proceeds from her show to the American Prairie Reserve. "Some of them migrate very long distances. Shore birds come to the prairie to have their babies ... robust birdlife is really an indication of a healthy ecosystem."

While admittedly her current fixation, Guzman doesn't want to pigeonhole herself as a wildlife artist, and continues to paint landscapes, still lifes and portraits.

"It's all a matter of what I feel and what attracts my eye," Guzman said. "That's the beauty of being a fine artist, you can just pick and choose what you want to paint and hopefully people will respond to it."



Guzman's "Nesting Sandhill" will be on display in a group exhibition that opens at Bozeman's Old Main Gallery on Nov. 4. A portion of the proceeds will benefit the American Prairie Reserve. PHOTO COURTESY OF OLD MAIN GALLERY & FRAMING



Oil painter Carol Guzman has been perfecting her renditions of Montana's birdlife for nearly eight years. The artist also paints still lifes and plein air landscapes that share her appreciation for the natural world. PHOTO BY CLYDE ASPEVIG

Guzman is a classically trained, realistic painter who earned a fine art degree in the mid-'70s from Parsons School of Design in New York City.

In 1990, following a divorce, Guzman left Manhattan with her paints and her dog and spent the next year touring the country and living out of her van.

"I was a gypsy and I loved it," Guzman said.

While plein air painting alongside the scenic Icefields Parkway in the Canadian Rockies, she met fellow artist Clyde Aspevig, who was doing the same thing. The two have been together ever since.

Aspevig's Montana roots eventually drew them back to the region, where they settled in rural Shields Valley north of Livingston for 16 years before relocating to Bozeman.

Guzman describes their life together as a continuous treasure hunt to find great art and new things to paint. In addition to a shared enjoyment of art, the outdoors and adventure, the couple started a website devoted to encouraging people to savor aspects of nature that are often overlooked. They came up with the name "Land Snorkel" while admiring the desert succulents during a hike in Sedona, Arizona.

"[Land Snorkel] is an idea my husband and I started years ago that encourages people to spend more time in nature—which we all need in this time of digital everything—wandering and wondering with no destination in mind," Guzman said.

"The land itself, it just makes you feel more human, that you're part of an ecosystem, and part of the world. It's part of our existence; it's where we come from," she added.

For Guzman, encouraging adults and children to spend more time in nature is not solely about the personal benefits, but comes full circle to the need to protect the source of those gifts.

"If fewer and fewer people are spending time in nature, fewer people are appreciating it. So who is going to conserve it?" Guzman asked. "If you don't have a link to the land you're not going to have any desire to keep it."

Locally, Guzman's work will be on display at Old Main Gallery and Framing in Bozeman from Nov. 4 through December. She also shows her work by appointment. Visit [carolguzman.com](http://carolguzman.com) for more information.

# Equestrian film festival gallops into Bozeman

## WINDHORSE EQUINE LEARNING

Windhorse Equine Learning, a Bozeman nonprofit that helps kids learn and grow with horses, presents the Equus International Film Festival "On the Trail," a selection of six favorite films from the 2015 and 2017 Equus International Film Festival in Missoula, which took place in mid-September.

The Bozeman event will take place Sunday, Oct. 29, from 5-9 p.m. at the Emerson Center for the Arts & Culture. Proceeds will support Windhorse Equine Learning programs.

The event features films about horses and people from around the globe and right here at home. The film selection includes the 2017 EIFF winner of Best of the Festival, "Talking to the Air: The Horses of the Last Forbidden Kingdom," filmed in Nepal.

The Equus International Film Festival is the premier global venue for award-winning equine film, television and other media that bring focus to the horse and other equines and seeks to enhance the equine-human bond and improve the welfare of the horse.

Doors open at 4 p.m. There will be a silent auction supporting Windhorse Equine Learning, barbeque sandwiches with locally sourced ingredients from Blue Smoke Barbeque and a cash bar hosted by the Emerson Grill.

Windhorse Equine Learning is a nonprofit providing educational programs that facilitate learning and personal growth through experiential interactions with horses. The Equine-Assisted Learning curriculum is taught by certified instructors and seeks to build leadership skills, improve focus and healthy self-awareness, empowerment, self-esteem, communication skills (verbal and nonverbal) and positive interactions with peers and instructors.



Filed in Nepal, "Talking to the Air" is one of six equestrian-themed films featured in "On the Trail," which screens at the Emerson on Oct. 29. PHOTO COURTESY OF THE EQUUS INTERNATIONAL FILM FESTIVAL

The Windhorse mission is to empower students to realize their full potential and help prepare them for a successful future. The 2017 Equus International Film Festival "On the Trail" will support scholarships so that youth from all economic backgrounds can benefit from Windhorse programs.

*Tickets are available online or at the door. To learn more, watch trailers from the featured films, or to purchase tickets, visit [windhorseequinelearning.org/filmfestival](http://windhorseequinelearning.org/filmfestival).*

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# The Gallatin's changing pathway

## Speaker to discuss how Gallatin Canyon has changed over time

GALLATIN HISTORY MUSEUM

Duncan Patten, hydrologist, professor and author, will discuss his book, "The Gallatin Way to Yellowstone: A Changing Pathway Through Time," at the Museum of the Rockies' Hager Auditorium on Nov. 1 at 6 p.m. Patten's lecture is a part of the Gallatin History Museum Monthly Speaker Series.

Patten's book uses repeat photography, or a comparison of historic photos and modern retakes of the same location, to show how places and the landscape change (or do not change) over time. He focuses on the Gallatin Canyon from its mouth just south of Gallatin Gateway to West Yellowstone.

The route through the Canyon, once called the Gallatin Way, was used by many who traveled to the west gate of Yellowstone National Park in West Yellowstone. This was especially true for tourists that stayed at the Gallatin Gateway Inn, owned by the Milwaukee Railroad, who were bused through the Canyon to the park.

Many historic images date before 1900 or in the very early 1900s, showing both limited development in the Canyon and the condition of the road that eventually opened all the way to West Yellowstone in 1914.

Historic guest ranches developed along the way, following miners and cattle ranching. Some of the very early guest ranches were Karst's Cold Springs Ranch (mid-canyon), Michener's cabins at West Fork, Halfway Inn (originally called Dew Drop Inn and now Rainbow Ranch), Buffalo Horn Ranch (now 320 Ranch), and Nine Quarter Circle Ranch, which evolved from an operating cattle ranch and is still operated under the old name. In the 1920s Elkhorn Ranch and Covered Wagon Ranch were established.

In 1908, railroad service was added to West Yellowstone which greatly impacted tourist business at the west gate of Yellowstone. Increased use of personal cars eventually put the Gallatin Gateway Inn out of business.



This stretch of highway along the Gallatin River is just upstream from present-day 35 mph bridge, and is pictured on the left in 2016 and on the right circa 1900. LEFT PHOTO BY DUNCAN PATTEN, RIGHT PHOTO COURTESY OF THE GALLATIN HISTORY MUSEUM

In 1929 the northwest corner of Yellowstone National Park was added to protect the petrified wood forests in that area. This corner of the park had been managed by the Army until 1918 when the National Park Service was established and took over the park. The foundation of the old Soldier's Station is still evident in the northwest corner of the park.

All the while, the road continued to improve with gravel in the 1920s and early versions of pavement in the mid-1930s. The 1950s and '60s saw a major upgrade and change for the highway as parts of the road were moved or improved.

Major changes came to the Canyon with the development of Big Sky Resort in the early 1970s, and tourist business in the Canyon and West Yellowstone greatly increased about that time.

Visit [museumoftherockies.org](http://museumoftherockies.org) for more information.

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## Emerson calls for art and formal wear

### Deadline for entries Oct. 30 and Nov. 6

EBS STAFF

In 2018, the Emerson Center for the Arts & Culture will celebrate its 25th anniversary, while the historic former public school that houses the organization turns 100 years old.

The festivities begin on Jan. 26, 2018 with the annual Celebration of the Arts fundraising event and concurrent exhibits. The theme for this year's event is "winter formal" and will explore the history of the Emerson and other area schoolhouses. The Emerson has partnered with the Gallatin History Museum to fashion a unique exhibition of antique photographs, banners and—with the help of the community—formal wear from school dances.

Those interested in having their prom dress or tuxedo on display in the Emerson lobby should send images of the formal attire, along with a brief story about the evening it was worn to [education@theemerson.org](mailto:education@theemerson.org). Pictures should show the formal wear in its current condition, and include a blast-from-the-past prom photo if available.

Selections will be made based upon quality, decade trends, and unique personal history. The deadline for submissions is Nov. 6.

The Emerson is also calling for art donations to this year's Celebration of the Arts live and silent auctions. The deadline for entries is Oct. 30. Selected works will be on display in the Jessie Wilber Gallery beginning Dec. 6 to provide a preview of the work that will be available for auction during the January fundraising event.

All proceeds from the live and silent auctions go toward the Emerson's art education, exhibits and restoration projects.

For submission guidelines visit [theemerson.org](http://theemerson.org).

## Locals Fishing Report from Gallatin River Guides

Brought to you by Jimmy Armijo-Grover, General Manager



We're at the tail end of fall fishing here in the SW Montana, and the beautiful fall colors along the river, much like the number of anglers, have been falling for weeks. November is days away and it's one of the best times of the year to fish. If solitude is your thing of course.

Historically, it starts getting cold now so walk wading is the preferred method of fishing, which is good because most of the fish on the Madison have moved out of the float section into the walk wade sections to spawn and do their thing. If you're a streamer junkie you can still find some out of a boat. The Gallatin and Madison both fish well into November. Nymphing will be

the most productive approach with small stoneflies and midges. Fish will be found in their winter lies (slow deep runs, dropoffs and seams) where they won't need to move far for food. On colder days you may need to work a spot hard until your drift ultimately "hand feeds" the fish.

Fish can still be found in the shallows and tight to the banks, where they can be caught with smaller, slowly stripped or swung streamers. A good approach is to swing a streamer through a run working downstream and to nymph your way back up to pick up any missed fish. Our favorite patterns are Kelly Galloup's Mini-Dungeon, Sculpzilla, Coffee's Sparkle Minnow and the Mini Loop Sculpin.

There may be some dry fly activity on warmer and cloudier days with some lingering Baetis and possibly some midges. The best way to find good dry fly fishing is to contemplate bringing your dry fly box and then leaving it in the truck. Works everytime.

We feel like we are beating a dead horse at times, but it can't be said enough to stay clear of spawning redds. Don't walk or fish over them. Ever. Remember when Whitney Houston reminded us that the children are our future? The same thing applies to fish...

A reminder that YNP closes to fishing on Nov. 5th. Also, enjoy the solitude and give other anglers more space than usual so they too can enjoy some peace and quiet.

-Shane Stalling

Zebra Midge



Sculpzilla



Pat's Rubberleg



Galloups Mini-dungeon



Baetis Cripple 2



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# 'Infinite Landscape' exhibit benefits American Prairie Reserve

BY SARAH GIANELLI  
EBS ASSOCIATE EDITOR

BIG SKY - Old Main Gallery and Framing will host a group exhibition featuring new works by Missoula artist Monte Dolack, Bozeman's Carol Guzman and California-based Emilie Lee. The exhibition will be on display through December, with an opening reception on Saturday, Nov. 4 from 6 to 9 p.m.

Connected by their avid support of the American Prairie Reserve, situated on the highlands surrounding northeastern Montana's Missouri River, the artists will donate 10 percent of sales from the show to the nonprofit.

When complete, the American Prairie Reserve will be the largest protected landscape in the continental U.S. and provide habitat for the native animals that once roamed the Great Plains.

All three artists participating in the exhibit have spent time on the reserve and have developed an intimate relationship with the land and the wildlife that inhabit it.

Lee first learned about the American Prairie Reserve while living in New York City and looking for a project that would combine adventure and a meaningful story she could share through her artwork.

"I was inspired by APR's success," Lee said. "And it seemed like a positive story that was important to share with the world as we face increasing threats to our wild places. I hope that when others hear this story they are encouraged to continue fighting for conservation."

Camping on the reserve for a month and shadowing wildlife researchers, Lee developed an ability to paint the landscape with increased curiosity and sensitivity.



Monte Dolack's "House of Sky" is one of a series of paintings inspired by the grasslands of northeastern Montana. A portion of the proceeds from a group exhibition at Old Main Gallery will benefit the American Prairie Reserve, a nonprofit striving to create the largest nature preserve in the continental U.S. PHOTO BY CHRIS AUTIO

All of Lee's paintings were created from either direct observation or memory, and represent two years of exploration and research, resulting in tender renditions of the understated beauty of the prairie, from the fleeting gumbo primrose to the infinite horizons.

Dolack, an artist of international repute who has worked with many conservation organizations throughout the West, has visited the American Prairie Reserve twice for multiple-day visits.

"I am interested in [APR's] bold and visionary mission of eventually establishing a national park devoted to the prairie," said Dolack, who did a series of landscapes inspired by his time there. Having grown up in Great Falls, Dolack said he has a deep personal connection with big open spaces.

For Guzman, the prairie is often an over-looked, under-valued portion of the American West.

Through paintings that depict the region's wildlife, largely birdlife, she hopes to inform and educate people about a part of Montana she feels few people know about or visit.

"The area is very unique and expansive," Guzman said. "It is a true grassland that was never sod busted, so [remains] native prairie. I have been there numerous times and it evokes feeling in me that I have not experienced in any mountain range or geography normally thought of as Montanan landscape."

Old Main Gallery and Framing is located at 124 Main Street in Bozeman. For further information on "Infinite Landscape" and the participating artists please call (406) 587-8860, email [galleries@oldmaingallery.com](mailto:galleries@oldmaingallery.com) or visit [oldmaingallery.com](http://oldmaingallery.com).

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## EVENTS CALENDAR

**FRIDAY, OCTOBER 27 – THURSDAY, NOVEMBER 9**

**\*IF YOUR EVENT FALLS BETWEEN NOV. 10 AND 23, PLEASE SUBMIT IT BY NOV. 2 BY EMAILING MEDIA@OUTLAW.PARTNERS.**

## BIG SKY

**FRIDAY, OCTOBER 27**  
**Something Wicked & Groovy This Way Comes, costume party**  
**Town Center, 4-8 p.m.**

Renegade Americana with Ken Waldman, music  
Rainbow Ranch Lodge, 5 p.m.

Trivia Night  
Lone Peak Cinema, 8 p.m.

**SATURDAY, OCTOBER 28**  
STEM Saturdays, class  
Big Sky Discovery Academy, 10 a.m.

**Horror Fest**  
**Lone Peak Cinema, afternoon and evening**

**Mini Monster Mash, Halloween party**  
**Fire Pit Park, 4-6 p.m.**

**SUNDAY, OCTOBER 29**  
Live Music  
Compass Café, 11 a.m.-1 p.m.

Horror Fest  
Lone Peak Cinema, afternoon and evening

**MONDAY, OCTOBER 30**  
Service Industry Night  
Lotus Pad, all evening

**TUESDAY, OCTOBER 31**  
Top Shelf Toastmasters  
Town Center Sales Office, 12 p.m.

**WEDNESDAY, NOVEMBER 1**  
**Last day of LPHS Interact Club Clothing Drive**  
**Lone Peak High School**

**FRIDAY, NOVEMBER 3**  
Fish Fry  
BYWOM, all evening

Trivia Night  
Lone Peak Cinema, 8 p.m.

**SATURDAY, NOVEMBER 4**  
STEM Saturdays, class  
Big Sky Discovery Academy, 10 a.m.

**SUNDAY, NOVEMBER 5**  
Live Music  
Compass Café, 11 a.m.-1 p.m.

**MONDAY, NOVEMBER 6**  
Service Industry Night  
Lotus Pad, all evening

**TUESDAY, NOVEMBER 7**  
Top Shelf Toastmasters  
Town Center Sales Office, 12 p.m.

**WEDNESDAY, NOVEMBER 8**  
Family Cooking Night  
Ophir Elementary Cafeteria, 6 p.m.

## BOZEMAN

**FRIDAY, OCTOBER 27**  
**Carnival of Terror Haunted House**  
**Anderson School House, Oct. 27 and 28, 5:30-10 p.m.**

Collapsing Stars, music  
406 Brewing, 6 p.m.

Jazz Night, music  
Red Tractor Pizza, 7 p.m.

**SATURDAY, OCTOBER 28**  
Halloween Public Skating  
Haynes Pavilion, Gallatin County Fairgrounds, 12-1:20 p.m.

Left on Tenth, music  
Red Tractor Pizza, 7 p.m.

Quick Draws, Cocktails & Costumes  
Emerson Cultural Center, 7 p.m.

**Jaybirds, concert**  
**Story Mansion, 7 p.m.**

The Magic of the Theater, opera  
Willson Auditorium, 7:30 p.m.

**Ririe-Woodbury Dance Company, performance**  
**The Ellen Theatre, 7:30 p.m.**

**SUNDAY, OCTOBER 29**  
The Magic of the Theater, opera  
Willson Auditorium, 2:30 p.m.

Equus International Film Festival  
Emerson Cultural Center, 5 p.m.

Bridger Mountain Big Band, music  
Red Tractor Pizza, 6 p.m.

Ty Stevenson, music  
Bozeman Hot Springs, 7 p.m.

**MONDAY, OCTOBER 30**  
Tom and Chelsea Cook, music  
Red Tractor Pizza, 7 p.m.

**TUESDAY, OCTOBER 31**  
**Brews & The Big Sky, class**  
**Museum of the Rockies, 5:30 p.m.**

Trick-Or-Treating  
Downtown, 4-6 p.m.

**WEDNESDAY, NOVEMBER 1**  
**Gallatin Canyon & The Road to West Yellowstone, lecture**  
**Museum of the Rockies, 6 p.m.**

## HORROR FEST SCHEDULE

## Saturday, October 28

## THE BIG

The Great Pumpkin Charlie Brown ..... 1:00 p.m.  
ParaNorman ..... 1:45 p.m.  
Beach Massacre at Kill Devil Hills ..... 4:00 p.m.  
Christian Ackerman - Terror Vortex and Karpenter ..... 6:00 p.m.  
Rocky Horror Picture Show ..... 8:30 p.m.  
Raw..... 12:00 a.m.

## THE LITTLE

The Birds ..... 1:00 p.m.  
I Am Not a Serial Killer ..... 3:30 p.m.  
The Lure ..... 5:30 p.m.  
Happy Death Day ..... 8:00 p.m.  
DJ Tiny - Night of the Living Dead ..... 10:30 p.m.

## Sunday, October 29

## THE BIG

Ernest Scared Stupid..... 2:00 p.m.  
Ice Cream Man ..... 4:00 p.m.  
[Rec] ..... 6:30 p.m.  
Better Watch Out ..... 8:00 p.m.  
The Lure..... 10:30 p.m.

## THE LITTLE

Happy Death Day ..... 2:30 p.m.  
The Thing ..... 4:30 p.m.  
It Follows ..... 7:00 p.m.  
Get Out ..... 9:00 p.m.  
Artists of Antiquity - Live Score to the Quay Brothers ..... 11:00 p.m.

Lucky, film  
The Ellen Theatre, 7 p.m.

**THURSDAY, NOVEMBER 2**  
Art on the Rocks: Syrah & Shadow Boxes, class  
Rocking R Bar, 6:30 p.m.

**FRIDAY, NOVEMBER 3**  
The Final Savasana, retreat  
Sweet Zenith, Nov. 3-5

Celebrate Agriculture Social  
MSU, 4:30 p.m.

**The Godfather**  
**The Ellen Theatre, 7:30 p.m.**

**SATURDAY, NOVEMBER 4**  
Winter Farmers' Market  
Emerson Ballroom, all morning

Bozeman Ski Swap  
Gallatin County Fairgrounds, all day

Celebrate Agriculture Conference and Reception  
MSU, all day

Season Pass Pickup  
MAP Brewing, 2-6 p.m.

**Croce: Two Generations of American Music**  
**The Ellen Theatre, 8 p.m.**

**SUNDAY, NOVEMBER 5**  
Bozeman Ski Swap  
Gallatin County Fairgrounds, all day

**MONDAY, NOVEMBER 6**  
From Prairies to the Atomic Age, lecture  
Hager Auditorium, Museum of the Rockies, 6 p.m.

**TUESDAY, NOVEMBER 7**  
Collapsing Stars, music  
MAP Brewing, 6 p.m.

Pecha Kucha 25  
The Ellen Theatre, 6:40 p.m.

**WEDNESDAY, NOVEMBER 8**  
Pecha Kucha 25  
The Ellen Theatre, 6:40 p.m.

Reel Rock Film Tour  
Emerson Cultural Center, 7:30 p.m.

# WORTH THE DRIVE

## Jackson Hole, WY

### SHIFT Festival and Summit

Nov. 1-3  
Snow King Resort

SHIFT—Shaping How We Invest For Tomorrow—is an annual gathering for the advancement and protection of our public lands. This year’s theme explores “The Business Case for Public Lands,” and how investments in outdoor recreation and conservation of public lands create vibrant, resilient economies in communities around America. For a full schedule of events or to purchase tickets visit [shiftjh.org](http://shiftjh.org).

## Livingston, MT

### Livingston to Anchorage: Scenes from the AICan Highway

Oct. 27-mid November  
Green Door Gallery

Artist Angie Frokes’ 6,000-mile journey from Livingston to Anchorage and back is chronicled through paintings, pottery and soft sculpture, and will be on display at the Green Door Gallery at 120 N. Main Street in Livingston. This show captures the varied experiences of a three-week adventure in British Columbia, the Yukon and Alaska with images of wildlife, Native culture, landscape and a golden retriever named Murphy. An artist’s reception will be held Oct. 27 from 5-8 p.m.

## Livingston, MT

### Young Frankenstein

Oct. 27-Nov. 12  
Shane Lalani Center for the Arts

The first production of the Shane Center’s 2017-2018 community theatre season, “Young Frankenstein” runs every weekend through mid November. In Mel Brooks’ version of the classic, the grandson of the infamous Victor Frankenstein inherits his family’s estate in Transylvania, finding himself in the mad scientist shoes of his ancestors. Show times are Fridays and Saturdays at 8 p.m. and Sundays at 3 p.m. Visit [theshanecenter.org/events/young-frankenstein](http://theshanecenter.org/events/young-frankenstein) to learn more and purchase tickets.



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### Terry G. Kennedy: On Mountaineering

BY DOUG HARE  
EBS STAFF

Two days after Christmas in 1969, five college students walked into the St. Mary Ranger Station on the east side of Glacier National Park with the intention of climbing a 4,000-foot sheer rock face. The north face of Mount Cleveland had never been climbed before. But these Montana climbers were young, ambitious, and already had a fair amount of mountaineering experience on Glacier's peaks under their belts.

The ranger in charge of the station, Bill Frauson, was an expert mountaineer and no-nonsense, decorated World War II veteran. He expressed his reservations about the attempt, warning the young men of the mountain's severe weather patterns and the difficulty of rescue operations, but eventually allowed the crew of precocious alpinists to pass his inspection.

They were never seen alive again. Initial search efforts floundered and their broken bodies were recovered seven months later under 25 feet of debris from the avalanche that took their lives.

This enigmatic tragedy near the highest point in the Lewis Range not only rocked the tight-knit community of skilled mountaineers from Bozeman to Kalispell, but would impact a generation of adventurers in ways no one could have predicted.

The author of "In Search of the Mount Cleveland Five," Terry Kennedy, was 15 years old at the time of the tragedy. While many would take this event as a cautionary tale about the precariousness of life and inherent dangers of snowy mountains, Kennedy found his own call to duty.

"I made a promise to myself. I would pick up the torch ... the Mount Cleveland Five had carried and find whatever it was those guys were seeking," writes Kennedy about a decision he made when the first search and rescue attempts were called off.

In his recently published book, that he says took him 40 years to write, Kennedy pieces together the fate of the climbers who never came back home and details the emotional burdens of those whose loved ones died doing what they love. Finally, the book crescendos into a coming-of-age story about mountaineering in Montana.

Even for those who don't like their feet to get cold, or prefer hobbies safer than climbing, "In Search of the Mount Cleveland Five" mingles adventure, camaraderie, comedy, loss and suicide into a narrative that teaches us about the strange alchemy of turning tragedy into triumph, and grief into muted joy.

Kennedy and Jim Kanzler, brother of one of the Cleveland Five, eventually did make a first ascent of the north face of Mt. Cleveland, along with a number of difficult summits throughout their impressive climbing careers. Whether or not those two ever found what the five climbers were seeking is open for debate. What is certain is that, like his contributions to the mountaineering world, Kennedy has succeeded in honoring those who went before him.

*Doug Hare is the Distribution Director for Outlaw Partners. He studied philosophy and American literature at Princeton and Harvard universities.*



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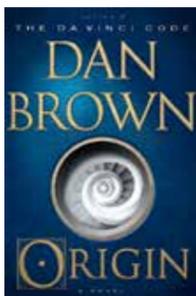
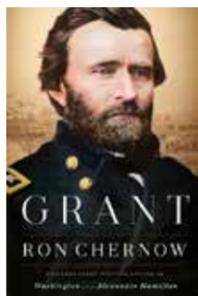
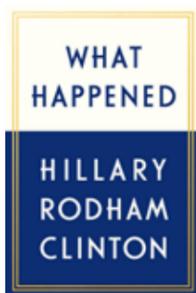
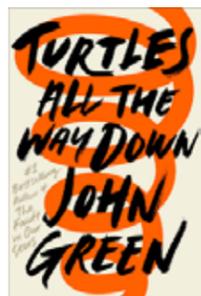
# Between the shelves

BY AMY HUNTER  
ASSISTANT COMMUNITY LIBRARIAN

Nothing will ever replace holding a book in your hands, flipping the pages and reading. Luckily, a new way to read books does not take away from the original. Through OverDrive, the Big Sky Community Library has digital books available to read on a smart device or Kindle, and audiobooks that can be listened to on a smart device whenever.

Books on CD open up another listening option. Check them out at the library and take them on upcoming road trips. We have recently ordered a number of new books on CD. In teen fiction, the new John Green book "Turtles All the Way Down" is available. In biographies and memoirs, Hillary Rodham Clinton's new book "What Happened" is her take on what happened during her campaign, and "Grant" by Ron Chernow explores the life of Ulysses S. Grant over 38 CDs for those with a long drive planned. Dan Brown's new book "Origin" is also available at the library. There are books on CD available for all ages—just ask a librarian.

In other news, put the scholastic book fair on your calendar, Nov. 9 from 8:30 a.m. to 5:30 p.m. and Nov. 10 from 8:30 a.m. to 12 p.m. in the elementary school gym.



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**Announcements**

**Volunteers Meet  
Wednesday 11/1  
10:00 A.M.**

**hours.**  
Sunday 1-5p.m.  
Monday 10a.m.-6p.m.  
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# CLASSIFIEDS

## HELP WANTED

Part-time Children's Autism Trainer, Big Sky, MT. Responsibilities: learn about autism, provide instruction to children w/developmental disabilities. 18+ yrs old, high school equivalency. \$9.74-10.80. Visit [FamilyOutreach.org/job-openings](http://FamilyOutreach.org/job-openings) for job description and application. Cassie: 406-587-2477 or [clovejoy@familyoutreach.org](mailto:clovejoy@familyoutreach.org).

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### Help Wanted - Valet/Service Technician

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**Compensation:** TBD during application process, Employment type: full-time

## LEGAL

NOTICE OF SPECIAL MAIL-IN BALLOT ELECTION COUNTY OF GALLATIN, MONTANA

NOTICE IS HEREBY GIVEN that a mail ballot election will be held in and for the Big Sky Fire District, with a mail ballot election due date of November 7, 2017, on the question of increasing the District's mill levy an additional 29.11 mills for the purpose of funding additional emergency response/firefighting personnel positions and increased operating costs, providing necessary emergency response equipment, and renovating both Fire District stations to improve the District's ability to provide appropriate emergency response.

### PROPOSITION

THAT THE BOARD OF TRUSTEES FOR THE BIG SKY FIRE DISTRICT BE AUTHORIZED TO LEVY AN ADDITIONAL 29.11 MILLS TO GENERATE AN ADDITIONAL APPROXIMATE SUM OF \$1,500,000 PER YEAR BASED ON THE 2017 FISCAL YEAR MILL RATE FOR THE PURPOSE OF FUNDING ADDITIONAL EMERGENCY RESPONSE/FIREFIGHTING PERSONNEL POSITIONS AND INCREASED OPERATING COSTS, PROVIDING NECESSARY EMERGENCY RESPONSE EQUIPMENT, AND RENOVATING BOTH FIRE DISTRICT STATIONS TO IMPROVE THE DISTRICT'S ABILITY TO PROVIDE APPROPRIATE EMERGENCY RESPONSE.

The approximate amount of money that is to be raised, based on the 2017 Fiscal Year mill rate, is \$1,500,000 per year. The levy shall be permanent, with the amount subject to the allowances specified in §15-10-420, MCA as to newly taxable property, inflation and any applicable provisions and adjustments as may be authorized by law. The Board of Trustees may determine in a specific fiscal year that the number of mills required may be lowered for a specific year. If the mill levy passes, the impact of the election on a home valued at \$100,000 would be \$39.30 per year in additional property taxes, and on a home valued at \$200,000, the impact would be an additional \$78.60 per year in additional property taxes.

The election shall be conducted by mail ballot with ballots being mailed on October 18, 2017, and voted ballots are due November 7, 2017. Regardless of postmark date, ballots returned by mail must be received in the election office by 8:00 pm on Election Day or they will not be counted.

DATED this 26th day of September, 2017  
Charlotte Mills, Gallatin County Election Administrator

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OF THE YEAR - BEST GROCERY STORE/MARKET - BEST SPA/SALON - BEST BREWERY  
- BEST NEW BUSINESS - BEST PLACE TO TAKE YOUR DOG - BEST DIRTBAG MEAL  
DEAL - BEST BANK BEST RESTAURANT - BEST BURGER - BEST APRES - BEST  
BARTENDER - BEST MUSIC VENUE IN BIG SKY - EVENT OF THE YEAR - BEST BUSINESS  
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