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HATCHing a better future at Moonlight Basin

Oct. 12-25, 2018

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Celebrating birds of prey

Tech summit rolls out 'maker bus'

Halloween fest to bring the fright

Making it in Big Sky: Milkie's





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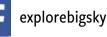
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ON THE COVER: The annual fall raptor migration is happening in the skies above Montana, and you can read more about it on page 18. Great horned owls, like the one seen in this photo, do not migrate and can be seen in the Greater Yellowstone year-round with keen eyesight and a little luck. NPS PHOTO

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The Lone Peak High School football team ranked eighth in the nation for donations for Touchdowns Against Cancer. They raised \$2,135 with 13 touchdowns in the month of September, contributing to the drive's \$125,088 of total funds raised for St. Jude Children's Research Hospital to fight childhood cancer.

"It's tremendous for the kids to participate in something where they have a chance to make a difference," coach Chris Samuels said. "It means a ton to me and my kids." Samuel's wife battled a rare form of cancer called soft-tissue sarcoma for the past two and a half years. Samuel's son, Austin, is a junior receiver on the team. PHOTO BY BAY STEPHENS

Do you want to see your photography in the pages of EBS? Submit a maximum of three images via email to carie@theoutlawpartners.com or use #explorebigsky on social media to be eligible. One photo per issue will be chosen for the opening shot.

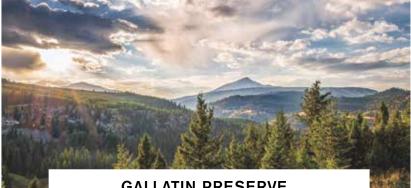
CORRECTION: In the Big Sky Offseason Business Guide that ran in the Sept. 28 issue of EBS, the hours were incorrect for Horse of a Different color. Horse of a Different Color is currently open 10 a.m. to 5 p.m. Monday through Saturday, and 11 a.m. to 4 p.m. on Sunday. The offseason closing date of Olive B's Big Sky Bistro was also incorrect. Olive B's will be closed Oct. 13 through Dec. 2.



MARTHA JOHNSON Vice President of Sales | Founding Broker THE BIG SKY REAL ESTATE CO.

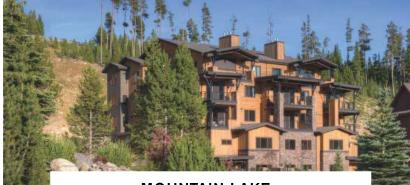
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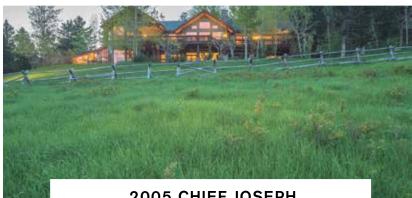


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NEWS IN BRIEF



Proposed Big Sky substation moving through county review

EBS STAFF

On Sept. 28, NorthWestern Energy submitted application materials for a conditional use permit and the owners of the proposed Rainham substation site submitted a zone map amendment, or zoning change, to Gallatin County.

The Big Sky Advisory Committee will review both applications and provide comments and recommendations to the Gallatin County Planning and Zoning Commission, which will take that feedback into consideration as a part of their own review of each application. Following that review, the planning and zoning commission will have the authority to make a final decision on the conditional use permit application.

For the zoning amendment, the planning and zoning commission will forward the results of its review to the Gallatin County Commission, which has the final authority for its approval. Since all three county commissioners sit on the planning and zoning commission, they typically run the portion of the hearing related to a zoning amendment as a joint meeting between the two commissions.

Based on the published meeting schedules of the Big Sky Advisory Committee and both commissions, the stakeholders expect the applications to move forward on this tentative timeline:

Gallatin County will review and comment on both applications in October; the advisory committee will meet and review both applications Nov. 5; the planning and zoning commission will hold a public hearing on both applications, and a joint county commission and planning and zoning commission hearing will be held for the zoning amendment Nov. 8; a second reading of the zoning resolution at a county commission meeting Nov. 20 or Nov. 27.

FWP receives grant to fight invasive mussels

MONTANA FISH, WILDLIFE AND PARKS

The U.S. Bureau of Reclamation recently awarded a \$837,000 grant to Montana Fish, Wildlife and Parks to combat invasive mussels in Montana. These grant funds will be used to improve inspection/decontamination stations; provide campsites for inspection staff; purchase inspection and decontamination equipment, materials and supplies, outreach materials, storage sheds, and shelters; and also provide for sampling and analysis.

"Preventing the spread of aquatic invasive species like quagga and zebra mussels

Hungry Moose closes for renovations, hosts storewide sale

EBS STAFF

The Hungry Moose Market and Deli in Big Sky Town Center will be closed for building renovations from Oct. 29 to Nov. 9. The project will include installing a new floor and some general maintenance updates.

Prior to the 12-day closure, the business will be holding a storewide 20-percent off sale, which will include everything in the store except for tobacco products and deli items. The sale will be held from Monday, Oct. 15, through Sunday, Oct. 28.

The Hungry Moose Market and Deli in the Mountain Mall at Big Sky Resort will remain open from 7 a.m. to 7 p.m., seven days a week, and the renovated Town Center location will reopen on Saturday, Nov. 10.

Davis joins resort tax board

EBS STAFF

At the Big Sky Resort District tax board meeting on Oct. 3, the board voted unanimously to appoint Paul "Buz" Davis to the seat vacated by Jamey Kabisch. Davis was put forward as a possible replacement during the Sept. 7 board meeting that began with Kabisch's surprise announcement that he was retiring.

Davis received the third highest vote total during the May election, when Big Sky voters put Sarah Blechta and Steve Johnson on the five-person resort tax board. However, his appointment wasn't a foregone conclusion, as Blechta spoke up during discussion of the motion and voiced her reservations about the speed of the process and adding another male to the board.

"You know, it's that idea of optics and I just wanted it to at least be out there that I have reached out to a few different people in the community—nobody else seems

is a high priority for Reclamation," said Reclamation's Montana Area Manager Steve Davies. "The state of Montana is taking a leadership role with inspection and decontamination stations throughout the state. This funding will assist them with needed resources and equipment for two 'at risk' reservoirs: Tiber and Canyon Ferry."

Most of the funding will be used at Tiber Reservoir, near Chester, since it's the only reservoir in the state to test positive for aquatic invasive mussels in 2016. A large portion of funding will be used to construct a new campground loop and inspection site near Tiber Marina to provide needed campsites for inspection staff. A portion of the funding will also be used at Canyon Ferry Reservoir, near Helena, since a suspect sample was collected there.

"We are always looking for ways to improve Montana's aquatic invasive species inspection and monitoring programs," said Tom Woolf, FWP Aquatic Invasive Species Bureau Chief. "The improvements being made at Tiber will help make the inspection process better for both boaters and our inspection staff."

Visit cleandraindrymt.com for more information about the grant or Montana's efforts to defend against aquatic invasive species. You may also call the FWP fisheries office at (406) 444–2440.

to be interested," Blechta said. "I think Buz is going to be great, but I also feel like it was a little rushed."

Board secretary Steve Johnson noted that with an election held so recently voters had signaled that Davis was a strong candidate, and he was also one of the few people in the community who was ready to take the position.

Davis was out of town when the October meeting was held but signed his oath of office on Oct. 9. He joins the resort tax board at a busy time—the district has a request for proposal (RFP) out for help with a community strategic plan and is also hosting a summit Nov. 30 for representatives of other resort tax areas and communities around the state.

OPINION



The third annual Big Sky Global Tech Summit is being held at the school district Oct. 18-19. In what ways have technological advancements improved your quality of life and in what ways have they been detrimental?



Judy Gail Gallatin Gateway, Montana

"Some good things that have come from having technology are that it's easier to do schoolwork and projects. [Some] bad things are that students are writing less and rely too much on electronics"



KC Smelser Bozeman, Montana

"It's beneficial in that technology has allowed for more access to information and therefore better understanding of the world and its possibilities. It's been a hindrance in that technology has sped up everything in life: work, social connections, travel, and it becomes hard to appreciate the 'now' or the current moment at hand."



Max Woodger Big Sky, Montana

"Good things that have come out of technology are entertainment and learning experiences like using Google Docs for writing essays or presentation purposes. The downside is everyone glued to their phone and not talking face-to-face ... and I don't mean FaceTime."



Carly Purvis Big Sky, Montana

"It makes it a lot easier to connect with friends and family, especially when they are far away. But they use the data from our posts to target and market to us. And Russian hackers."

Letter: Seeking your vote for Gallatin County Commission in November

Since 2007 I have been honored with the opportunity to serve Gallatin County citizens as one of your county commissioners. In 2008 I took a leadership role, partnering with Bozeman city leaders to establish a new 911 center alongside Bozeman's new fire station, near the regional park. The resulting partnership has been a success, and MSU will soon join the partnership.

I also had a leadership role in a new detention center. In 2008, we conducted 96 public citizen presentations. Voters approved the bond, and the result was a new 160-bed jail, built on time and on budget.

I have also served on the landfill board for 10 years. This month, we will complete a land exchange with the state, resulting in the Logan Landfill property—that is now on state-owned land—becoming county-owned land. This will ensure future growth for the next 100 years.

Op-ed: I-185 has serious Constitutional flaws

BY NELS SWANDAL

Imagine a ballot initiative that would give every citizen in Montana \$1,000 each year. That initiative would be very popular and would likely pass. But with a \$1 billion price tag, it would result in a serious deficit for our state budget and require massive tax increases or cuts to other services.

The authors of our Montana Constitution were wise to prevent these types of situations from occurring. Monetary appropriations by ballot initiative allow special interests to use the initiative process to reap windfalls of tax dollars and could bust our state budget.

The Montana Constitution, in Article III, Section 4 states, "The people may enact laws by initiative on all matters except appropriations of money." This provision ensures that only the Legislature—which is constitutionally mandated to pass a balanced budget—would have the authority to set appropriations.

But this is not the case with I-185. While I-185 doesn't create a new appropriation, it repeals the sunset date for Montana's Medicaid Expansion program and thus repeals the termination date for the program's associated statutory appropriation. With the sunset date removed, I-185 creates a de facto permanent statutory appropriation.

In the words of the Montana Legislative Services Division, "[I]f the proposal [I-185] is approved it would be the actions of the people that would lead to the appropriation of state general fund money for an indefinite amount of time and for an indefinite amount."

By doing this, the initiative has a serious constitutional flaw, and I do not see how it would withstand judicial scrutiny.

We've seen this happen before. Special interests pass a ballot initiative, only to have it struck down as unconstitutional.

Since 2007, I and my fellow commissioners, have partnered with the U.S. Forest Service and Friends of Hyalite to keep Hyalite Road plowed and open for winter use. Access to our public lands and trails yearround is very important.

For over a year I represented the Gallatin County commissioners on the important Big Sky Sustainable Water Solutions Forum. This forum represented a wide range of stakeholders that spent considerable effort discussing long-term solutions for future growth of Big Sky and protecting the important water resources of the Gallatin River. Presently, important planning is being done in the Bozeman-Belgrade-Four Corners "triangle" area by the planning coordination committee. I strongly support those efforts and look forward to their assessment.

I invite Gallatin County voters to visit my website stevewhite18.org. I would appreciate your support for re-election in November.

Steve White Gallatin County Commissioner The proponent of I-185 was warned by the independent Legislative Services Division staff that the ballot initiative was on constitutionally shaky ground, but he chose to ignore that warning and did not make changes to the initiative that would put it in line with Montana's Constitution.

That hasn't stopped I-185's proponents from attempting to deceive Montana voters into passing an unconstitutional law.

Adding insult to injury, while I-185 is projected to raise \$74 million per year in new tax revenues, it doesn't even allocate enough funding to cover the cost of the permanent appropriation it creates.

Permanent Medicaid expansion is projected to cost Montana taxpayers more than \$60 million per year by fiscal year 2023. I-185, on the other hand, specifically states that no more than \$26 million per year shall be allocated to fund Medicaid expansion. That leaves all Montana taxpayers on the hook to cover \$34 million per year in costs for Medicaid expansion.

The proponents of I-185 not only chose to write an initiative that violates our state constitution, they also wrote one that could result in even higher taxes or cuts to other government programs and services.

It's no wonder the hospital corporations are supporting I-185. They reap a direct benefit by providing services to Medicaid expansion enrollees.

Don't be misled. I-185 isn't about healthcare. It's all about money. Those who gain the most are the special interests bankrolling this effort.

They've shown they have no respect for our Montana Constitution. We owe their initiative no respect in return. Please join me and vote no on I-185.

Nels Swandal served as a Montana District Court Judge for 18 years.



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Obituary: Glenn Martin Bell

Glenn Bell died peacefully on Sept. 26 after a valiant two year fight with metastatic bladder cancer. He approached the disease with the characteristics that were the hallmarks of his life: energy, optimism, grace, love and courage. Glenn is survived by his wife, Carmen, who was the love of his life, and by his son, Grayson Terrel Bell.

Glenn was born on Oct. 2, 1960 to parents Terrel H. Bell and Betty Ruth Bell who preceded him in death; and has two siblings, Mark (Laura), Warren (Tammy) and Peter (Catherine) Bell, and 10 nieces and nephews.



During the course of his illness, Glenn frequently stated that his greatest blessings were his loving family and friends. Glenn was raised in Salt Lake City and spent some of his formative years in McLean, Virginia. He was a graduate of West High School and Humboldt State University, where he received a degree in fisheries biology.

Glenn's professional career was spent in the wonders of nature in and near West Yellowstone and Big Sky, Montana, where he demonstrated consummate skills as a fly fisherman, fishing guide, skier and friend. Glenn's greatest joys were time with his son skiing, talking sports and myriad other outdoor activities; and with his wife, Carmen, hiking the mountains near Big Sky, exploring the endless backroads near Yellowstone National Park, and traveling to Peru and Hawaii.

For those of us who remain, we will forever hold fond memories of his happiness and laughter, the simple joy of a good ice cream sandwich, his eternal fascination with nature and its beauty, and his shining example of integrity, tenacity, love, and good humor.

Glenn's family will hold a private memorial service at a future date. In lieu of flowers, Glenn requested that a donation be made to the Huntsman Cancer Foundation at huntsmancancer.org/giving/. Condolences and memories may be shared with the family dahlcares.com.





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BSSD Tech Summit returns to Big Sky Oct. 18-19 Maker bus ready to roll out activities for conference

BY BAY STEPHENS EBS STAFF WRITER

BIG SKY – Big Sky School District's "maker bus" will debut as a functioning makerspace at the third annual Big Sky Global Tech Summit held at the district Oct. 18-19. The summit will gather educators from around the state to explore innovative ways technology can allow intentional and mindful learning.

Keynotes by author, professor and maker John Spencer; Jonathan Distad, a new local with expertise in tech innovation; and BSSD's own technology and design thinking teacher Jeremy Harder, a Google Certified Educator, will center around this year's theme of intentional and mindful learning. Other presenters will include district staff and educators from across the state.

The summit acts as a stand-in for a statewide educators conference that Big Sky's teachers would otherwise attend on the same dates. Spearheaded by Harder and a technology committee, the district began hosting the event three years ago after considering the insights they could offer at the nexus of technology and education.

"[Technology] is one area where we've been innovators in the state of Montana, and this is one of the ways we try to share that innovation and impact," BSSD Superintendent Dustin Shipman said, speaking on behalf of the school board. "We're thrilled to have our third year coming up. ... The tech committee at our school just works tirelessly," both to put on the conference and throughout the rest of the year, he added.

Since its inception, balancing technology with outdoor education to maintain social, emotional and physical health has been integral to the summit, which offers extended lunches for participants to mountain bike, hike or fly fish.

"Most conferences you go to, you sit, you eat and then you sit," Harder said. "And while you're sitting, you're learning about getting kids up and moving, but you're still sitting. So, we wanted to do something different."

In the same spirit, workshops engage participants so that they do what they are trying to teach, Harder said.

out that the one parent who has attended the tech summit the past three years walked away from the conference-ending giveaway with a new Chromebook.

Harder estimated that there were 30 attendees last year; this year they're shooting for 50.

Thanks to the dedication of Harder's Senior Design Technology class, the maker bus will play a part in the 2018 summit. Seniors Max Butler, Cody Clack, Jarrett Blackburn and Myles Wilson were able to bring the bus near enough to completion to be usable in the tech summit, contributing their own elegant solutions to design challenges they encountered.

The maker bus has officially been dubbed the "Imagination Station," which, Harder said, "is sort of a conundrum because it's a moving thing, but when it's parked, it's a station." The final product will sport a large work bench, running water supplied via a garden hose, electricity from an extension cord, and solar panels.

The mobile makerspace will allow kids to get their hands on circuitry boards and a 3D printer, to learn crafts such as sewing—Harder hopes for a sewing machine donation—leatherworking and woodworking.

Harder's classes are also designing maker bus activities to create an activity bank to be tapped into in the future.

Some of Harder's students want to mount a collapsible greenhouse on top of the bus while another student envisions a Bluetooth-operated watering system. When students presented their ideas to their classes, many students discovered they'd been unwittingly working on complementary projects with classmates, Harder said.

The short-term goal is to prototype the bus around Big Sky, with students helping run the activities they designed for events like the summer Farmers Markets. Down the road, district staff want to drive the vehicle to other school districts like Bozeman, Ennis and West Yellowstone to showcase how an old bus can transform into a space where students and educators can learn through making.

Every year, a unifying interactive project allows attendees to work together on a tangible enterprise that encapsulates the theme of that year. For the 2017 summit, conference participants helped tear out seats of an old district school bus destined to become BSSD's own makerspace on wheels.

The collaborative magnum opus of this year's summit will be designing a tepee cover using Google Drawing, then taking the graphic to canvas with charcoal, and finally assembling the structure under the guidance of Harder and social studies teacher Tony Coppola.



Although the community has been very involved in supporting the summit including donations from the Yellowstone Club Community Foundation, a free vehicle wrap for the maker bus by Rau DeSigns, and beverage assistance from The Corral and Beehive Basin Brewery, which are hosting summit socials Thursday and Friday evenings, respectively—Harder hopes that more locals turn out for the workshops and keynotes.

"We're trying to make it a community thing in the offseason," Harder said, pointing From left to right, Myles Wilson, Max Butler, Cody Clack and Jarrett Blackburn of Jeremy Harder's Senior Design Technology class played a key role in building out the Big Sky School District "maker bus" so it would be ready for the third annual Global Tech Summit held at the school Oct. 18-19. PHOTO BY BAY STEPHENS

HATCHing hope at annual summit in Moonlight Basin

BY BAY STEPHENS EBS STAFF WRITER

BIG SKY - What mark on a tombstone bears the most importance?

The dash between birth and death date that represents one's lifetime. The music group Sons of Serendip shared this insight during a performance at the HATCH summit at Big Sky's Moonlight Basin Lodge from Oct. 3-7, where 100 hand-picked individuals were brought together to level the dash of their lives at hatching a better world.

In the words of Bozeman-based HATCH founder Yarrow Kraner, the summit is "built on that premise of finding exceptional human beings and connecting them in a way that they can accelerate each other."

Attendees are carefully curated to bring people on the frontlines of interesting and important challenges into contact with those that can support them, the wider goal being to have global impact.

This year's summit included individuals from across the spectrum of expertise and experience: human capital consultants, musicians and artists, startup CEOs, astrophysicists, "creative disrupters," "amplifiers," as well as students from Montana State University and Lone Peak High School.

"We spend 1,000 hours to put 100 people in the room," Kraner said. "And those 100 we hope will impact the lives of 100 million."

Collaboration, creativity and mentorship are the name of the game. According to Kraner, the average attendee will leave HATCH with six to seven collaborative projects. Over the past four years, the HATCH team has seen a groundswell of these endeavors earn national and international acclaim, but more importantly, positively impact the world.

"That ecosystem is what can create this ripple effect of tangible change," Kraner said. "These projects are very real. And they come from Big Sky, Montana."

For HATCH, 1 plus 1 equals 11 because human potential is exponential.

For many who have attended HATCH, they've found a kinship with other globally minded thinkers.

"I think it's kind of become a family for me," local songwriter Kylie Spence said. She attended last year as a junior in high school and made connections that helped to launch her music career.

Fifteen years ago, HATCH began as a music festival, but slowly morphed from a public-facing event to the more exclusive summit of today, a transition that Kraner said has been misunderstood.

"When you put so much time and effort and energy into putting the right hot-points into the room, you want them to have as many connectivity points as possible," Kraner said.

"We're at a very interesting inflection point right now. I think people are awakening to the fact that they need to get off the sidelines," he said. "We really do our best to motivate with hope and inspiration but also with very direct calls to action and support."

This motivation through inspiration has encouraged John Hagle, a first-time HATCHer who runs a research center in Silicon Valley that identifies emerging business opportunities that should be on a CEO's agenda.

"That's what's interesting or exciting," Hagle said. "[Kraner is] articulating a narrative of opportunity."

The unifying theme, "Hatch a better world," focuses on the opportunity of what a better world could look like and how people can take part, a departure from the fear-based narratives Hagle's observed in his work and travel. He believes this positive approach to the world holds more power.

"We need to find ways to help people move from fear to hope or excitement and be more constructive and collaborative," Hagle said. "I think we have a hunger for hope."

Visit hatchexperience.org to learn more.

While in Big Sky, participants engaged in morning breakout sessions centered around optimizing human potential and their own potential, listened to inspirational and galvanizing talks from attendees in the afternoon, connected with each other during unstructured time and enjoyed artistic and musical performances.

Over the course of the summit, "HATCHers" worked in labs of six to eight members to formulate solutions to problems facing our world. Labs wrestled with issues ranging from oceanic health and democracy, to food systems and gender and race equality, the goal of each being actionable solutions that could be implemented beyond Big Sky.



The summit may target the wider world, but it starts with the individuals, such as Lone Peak High School freshman Carly Wilson, who said her perspective on life's possibilities has been broadened.

"It helps me discover what I can do with what I love," Wilson said. "[I] don't have to do a certain job because it's there. I can create my own and do what I want to do. That's inspired me to think a little bit out of the box for the future."

The HATCH Summit at the Moonlight Basin Lodge Oct. 3-7 curated 100 applicants from all walks of life to create an ecosystem of collaboration aimed at positive global impact. PHOTO BY BAY STEPHENS

BSCO to purchase land in heart of Big Sky

BIG SKY COMMUNITY ORGANIZATION

With the financial support of the Len Hill Charitable Trust, and in-kind support of the Simkins family and 15 additional donors, the Big Sky Community Organization is under contract to purchase 3.3 acres in the heart of Big Sky.

The parcel, located in Town Center along Aspen Leaf Drive and between Ousel Falls Road and Simkins Drive, includes the current Town Center Park that houses the Music in the Mountains concert series and Big Sky Skating and Hockey Association's ice rink, along with the currently vacant gravel parking area to the east. By purchasing this property, the community is ensured a permanent place to gather outside and enjoy recreational and enrichment opportunities.

After 9 months of planning, BSCO is expected to close on the parcel before the end of the year thanks to a \$1.5 million grant from the Len Hill Charitable Trust, pending the signature of a final grant agreement later this month. "I am grateful to have the opportunity to give back to Big Sky while also being able to honor my late husband, Len Hill, with such a transformational project in a community that we loved dearly together," said Patricia Gordon from the Len Hill Charitable Trust.

Existing green space will be increased significantly on the parcel with parkland improvements as well as space for future indoor community facilities.

"To be able to anchor 3.3 acres of valuable real estate in the heart of our community for parkland and community facilities is a dream come true," said BSCO Executive Director Ciara Wolfe. "We recognize that the decisions we make today are charting the future of our community. The existing asset was too important to our overall community civic infrastructure and this step ensures the park remains a park for the rest of time, while also providing much needed land for expansion of parkland and future community facilities." This acquisition is the initial step for BSCO in its civic infrastructure improvements outlined in the recently completed Master Parks and Open Space plan, which assessed current and future needs for the growing community. Strong partnerships with existing landowners, philanthropic supporters and other nonprofit organizations have been key to making this acquisition possible.

Metrics show that assets of this type in a community aimed to bring diverse populations together ultimately develops trust between people, perceptions of safety and a community's ability to draw together people of different incomes, races and backgrounds. BSCO aims to create places for the community to gather and facilities that promote further programming and opportunity for everyone in Big Sky.

"This acquisition allows us to continue hosting some of Big Sky's favorite events including weekly Thursday night Music in the Mountains concerts and the Classical Music Festival, even with the significant growth in attendance we are experiencing annually," said Brian Hurlbut, executive director of the Arts Council of Big Sky. "We're thrilled to be partnering with BSCO on this incredible community project."

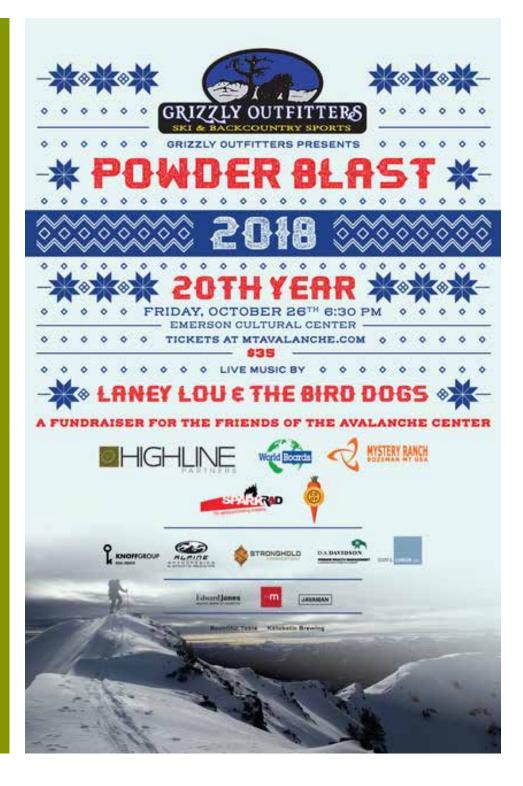
Big Sky Skating and Hockey Association Board Chair Ryan Blechta was also excited about the announcement. "BSCO securing a forever home for our ice rink allows us to raise the necessary funds to bring a refrigerated rink to Big Sky this winter and expand the service we provide for an additional three months each winter."

"During a time of rapid growth within Big Sky, it is critical we continue to expand our civic infrastructure to meet our growing community's needs, ensuring no one is left without the opportunity to lead a healthy, happy, engaged lifestyle in our community," Wolfe added. "We will be excited to share plans for a future phase of community facilities on this parcel when they are complete, knowing that it will take the entire community to make them come to fruition."

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High nitrogen levels measured in the West Fork of the Gallatin River

GALLATIN RIVER TASK FORCE

Nitrogen levels measured in the West Fork of the Gallatin River during summer 2018 were some of the highest ever recorded, which may have contributed to increased algae in the Gallatin River, according to the Gallatin River Task Force.

This summer, unprecedented levels of bright green algae were observed covering the bottom of the Gallatin River between Beaver Creek and Portal Creek and on several tributaries, including the West Fork, South Fork of the West Fork, and Taylor Fork. Algae blooms are a concern because they alter aquatic insect habitat and can be a nuisance when swimming or fishing. Severe algae blooms can lead to decreased dissolved oxygen levels in stream water, which harm fish and stream insects.

The Gallatin River Task Force is a nonprofit organization that monitors the health of the watershed and collects regular data at 21 sites on the Gallatin River and the streams that feed it to track baseline river conditions and understand events, like elevated algae growth. Nitrogen analyses were among the first test results the organization received from their summer monitoring.

"These results suggest nitrogen levels were likely one of the factors that contributed to the increase in algae in the Gallatin River downstream of the West Fork, but we are awaiting several test results and subsequent data analyses that will give us further insight into the cause of the bloom," said Kristin Gardner, executive director of the task force.

Environmental conditions, that include levels of nutrients, like nitrogen and phosphorous; water temperature; streamflow; water clarity; and sunlight, drive algae growth. Researchers must evaluate all these factors together to determine the reason for algae blooms.

In the past, excess nitrogen has contributed to nuisance algae growth on three major streams in the Big Sky area: West Fork of the Gallatin River, Middle Fork of the West Fork, and South Fork of the West Fork. Potential sources of excess nitrogen to local streams include over-irrigating golf courses with treated wastewater, improperly maintaining septic systems, applying too much fertilizer to outdoor landscapes, and concentrated areas of pet and horse waste.

The task force measured the highest nitrogen levels of the summer in the West Fork above the South Fork confluence: 0.42 milligrams/liter for total nitrogen and 0.31 mg/L for nitrate. In contrast, the state standard for total nitrogen is 0.3 mg/L. The state standard for nitrate was removed by the Montana Department of Environmental Quality in 2013; however, the task force still uses the previous standard of 0.1 mg/L as a trigger value of elevated nitrate in local streams.

The only historical nitrate measurements similar to the summer 2018 values were collected at two sites on the West Fork downstream of the Big Sky Community Park in August 2008. At that time, water quality assessments documented excess algae in the South Fork and West Fork that extended into the Gallatin downstream of the West Fork confluence. Although algae levels were not measured in the Gallatin in 2008, visual observations by frequent river users suggest that they were not as high as 2018.

The task force expects to receive additional results in November and will collaborate with experts from the Montana Department of Environmental Quality to interpret data from this year alongside historical measurements to fully explain the combination of factors that caused the 2018 algae bloom.

The Gallatin River Task Force has developed a webpage with more information on algae blooms and local river conditions that will be updated as more information becomes available.

Visit gallatinrivertaskforce.org/algae-bloom-faqs to learn more.



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LOCAL LOOK BACK The Beehive Ramp

BY JAMIE MATHIS

There's a tired, old saying that goes something like, "It's easier to beg for forgiveness than it is to ask for permission." That was our mindset when building the Beehive skate ramp. Tiny wheels and huge pants nearly killed skateboarding in the early '90s, and there wasn't much of a skate scene in Montana when it's neon claws had a hold of the world in any of it's incarnations.

Skateboarding in Big Sky in the '90s was difficult to say the least. In the wintertime we kept a rail slide bar in the tunnel between Rockstar parking and the Shoshone Lodge. It was loud, dusty and cold. The summer months were short, and the streets were littered with gravel—it wasn't ideal. The solution was to build a ramp.

Now, anyone that has ever been a skateboarder knows how difficult it is to get anything done at the city level. Months and months go by proposing plans to park committees. If you own land you sure are welcome to put a ramp on your property. If you don't, you resort to other means.

Skaters in Portland built a couple of features under a bridge in concrete in the mid '90s. They kept it clean and kept the addicts out. The city let them stay and it's still there today; it's called Burnside. We knew about it. Dave Goff, Tony Walsh, my brother Joey, James Case, Dave Marquez, Timmy Bowers, and a few others made the pilgrimage to the concrete mecca. That type of construction was out of the question for us. We had built wooden ramps though. We had all the wood from a ramp Kim Peterson had in her backyard in Missoula. The problem was we didn't have a place to put it.

Before Beehive Basin was littered with million-dollar mansions, it was a good place to build a campfire, drink a few beers and hang out with your friends. There was a spot where we had parties, a short walk up the hill from where the muddy parking lot was. I can't remember who first came up with the idea to put the ramp up there but it seemed like the perfect place for it. It was cleared of trees, flattish and nobody seemed to mind that we were up there.



Dave Goff executes a Smith grind on the Beehive skate ramp in the late '90s. PHOTO COURTESY OF JAMIE MATHIS

It took a week or so to transport all the wood up there. Tony Walsh won \$800 playing Keno at the Half Moon Saloon, so we could afford new Masonite and some coping. Brian Wheeler once showed up there with a surprised look on his face. "Keep it clean and don't burn this place down," he said. It took a few years, but the land sold, and someone built their dream home there. I still think how lucky we were to have lived in a place where we didn't have to ask for permission or forgiveness to build that ramp in the woods.

Jamie Mathis moved to Big Sky in 1992 and works at Lone Peak Cinema. He enjoys snowboarding in the winter, and skateboards at the Big Sky Community Park when skate park isn't covered in snow.

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5:00-6:00pm Yin Yoga	9:00-10:15 All Levels Yoga	9:00-10:00am All Levels Yoga	9:00-10:15 All Levels Yoga	9:00-10:00am All Levels Vinyasa	12:00-1:00pm Power Hour Yoga	
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Butterfield statue unveiled: 'Winter' arrives in Big Sky

On Saturday, October 6, the Arts Council of Big Sky unveiled a bronze statue of a horse by internationally-acclaimed Montana sculptor Deborah Butterfield. Located outside of the new Wilson Hotel, Butterfield chose 9-year-old Sidney Morris's submission 'Winter' as the name for the piece.

"I approach these projects architecturally, almost like a beaver building a dam at first," said Butterfield. The artist described Winter's posture as benevolent and inviting the onlooker into conversation, "almost as if you could climb inside for warmth."

It is the only one of her statues displayed outside publicly in her home state. Former museum curator and Big Sky resident Patty Rhea spearheaded the fundraising efforts to secure the \$400,000 that brought the project to fruition.



















PHOTOS BY DAVE PECUNIES

MSU releases history book celebrating 125 years

BY JESSIANNE CASTLE EBS CONTRIBUTOR

BOZEMAN – When Montana State University history professor Dr. Robert Rydell tells stories of the past, he expresses an innate ability to make history relevant.

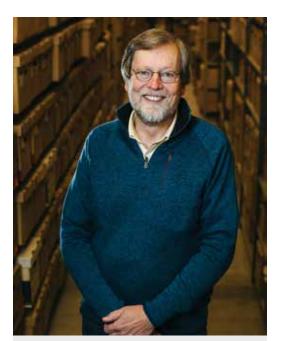
Speaking on Oct. 8 during a lecture that marked the release of his newest book, "Democracy by Degrees: The 125th Anniversary History of Montana State University," Rydell presented a green hat known as the freshman beanie from a time when MSU was Montana State College and enjoyed fame as the Aggies during the first half of the 20th century.

He described the ritual policed by upperclassmen when freshmen were required to wear the hat on campus. If they didn't, the offenders could be placed in stocks in front of the Strand Union Building. "And you would have your bottom swatted. How does that register in today's world?" he said, holding up a paddle that elicited many chuckles from the audience.

MSU President Waded Cruzado celebrated the release of Rydell's book, thanking those who have helped to define the university. "They were and they are instrumental in building this cathedral of knowledge,

and like any splendid cathedral in the world, ours is still under construction."

In addition to sharing stories much like that of the freshman beanie, "Democracy by Degrees" is a companion book to "In the People's Interest," a 1993 edition commemorating the 100th anniversary of MSU, for which a much younger Rydell collaborated with fellow professors Jeffrey Safford and Pierce Mullen.



Montana State University history professor Robert Rydell recently released his 125th anniversary book on MSU titled "Democracy by Degrees." Pictured, Rydell stands in an aisle at MSU Special Collections, where he did much of his research. PHOTO COURTESY OF MSU NEWS SERVICE The new book explores the last 25 years, picking up where "In the People's Interest" left off. Rydell worked on the project for roughly three years, finding himself amid many linear feet of physical records and documents in MSU's special collections, touring nearly 2 miles of underground tunnels beneath Montana Hall and the Centennial Pedestrian Mall, as well as interviewing approximately 50 individuals in order to gather oral histories in the absence of paper records.

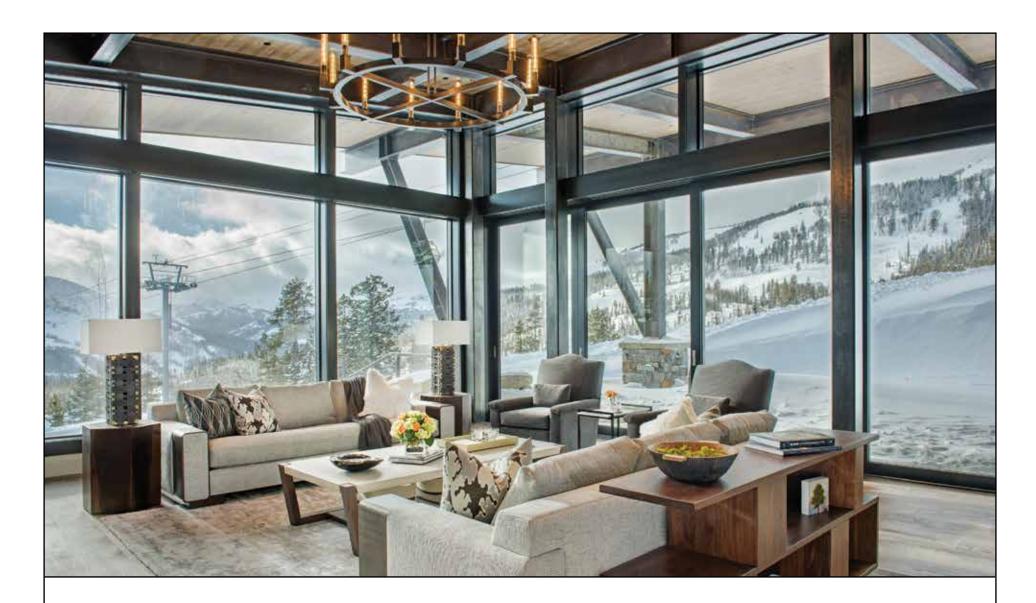
"The idea here is that the book has many themes," Rydell said in an interview prior to the book release. "It talks about the rise of the research enterprise, it talks about the strong success of students, it talks about the changes in legislative funding."

He added that one of his favorite aspects of the book is the vibrant photo essay highlighting public art on campus. "There is some quite wonderful art here on campus that people just walk by. I hope to make that a bit harder to do by calling attention to it."

Another important aspect of the book, and the reason for the title, is what Rydell describes as the mission of a land grant college.

"I think an argument could be constructed right now that this institution's importance is greater than it ever has been," he said. "Looking forward, land grant colleges, I think, have to understand why they were created—not just to create economic opportunity, but to rebuild civic faith, to endow its students with a deep understanding of what it means to be citizens."

Visit msubookstore.org to learn more about "Democracy by Degrees."





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New mining claims banned on public land near Yellowstone

BY MATTHEW BROWN ASSOCIATED PRESS

EMIGRANT, Mont. (AP) – U.S. Interior Secretary Ryan Zinke approved a 20-year ban on new mining claims in the mountains north of Yellowstone National Park on Oct. 8, after two proposed gold mines raised concerns the area could be spoiled.

Zinke signed the mineral ban at an outdoors ceremony in Montana's Paradise Valley, with Emigrant Peak rising in the background. The former Montana congressman was joined by local officials, business owners and others who support the move.

"There are places where it is appropriate to mine and places where it is not," Zinke said in a statement. "Paradise Valley is one of the areas it's not."

The rocky peaks and forested stream valleys covered by the ban attract skiers, hikers and other recreational users. It's an area where grizzly bears, wolves and other wildlife roam back and forth across the Yellowstone border. The scars of historical mining still are visible on some hillsides.

Mining companies and industry representatives say the Emigrant and Crevice areas are historical mining districts and opposed any halt to new exploration.

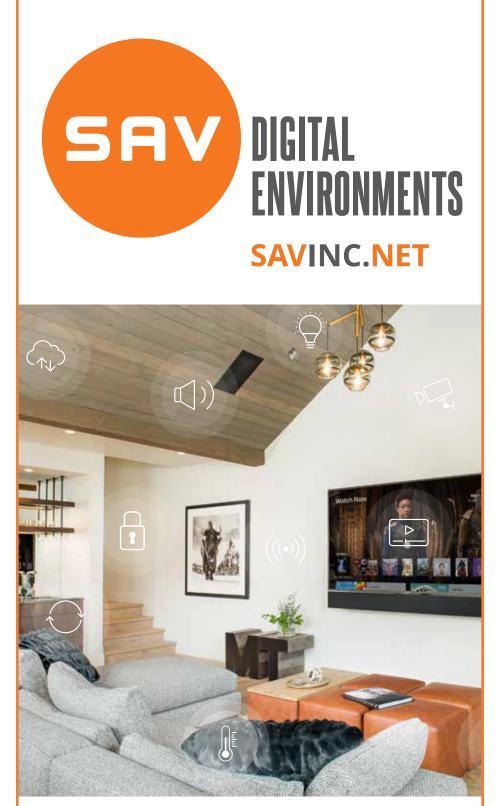
The ban extends a temporary ban imposed in 2016 under former President Barack Obama on new claims for gold, silver and other minerals on 30,000 acres (12,140 hectares) of public lands in the Paradise Valley and Gardiner Basin.

Most of the land is within the Custer Gallatin National Forest, but the underground minerals are overseen by the Interior Department.

The ban does not stop mining on private land or take away preexisting mining claims on public lands. But supporters said it would make a large-scale mine in the area much less likely because public lands would be needed to make such a project economically feasible.

The administration's support for the ban is notable given President Donald Trump's outspoken advocacy for the mining industry and his criticism of government regulations said to stifle economic development.

The proposal has received bipartisan backing in Montana, where



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Democrats and Republicans alike have been eager to cast themselves as protectors of the natural beauty of the Yellowstone region.

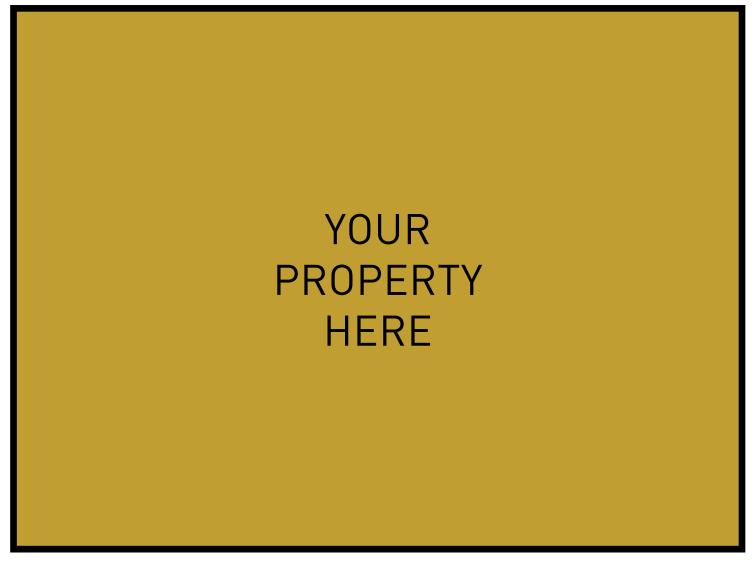
Colin Davis with the Yellowstone Gateway Business Coalition says his group will now focus on making the ban permanent through pending measures in Congress.

"Our eye is still on permanent legislation," said Davis, owner of Chico Hot Springs Resort. "The prize is permanent legislation so we're not doing this again in 20 years."

The House Natural Resources Committee on Sept. 26 approved permanent withdrawal legislation sponsored by Republican U.S. Rep. Greg Gianforte. The Senate Energy and Natural Resources Committee approved identical legislation from Democratic U.S. Sen. Jon Tester during the first week of October.



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ENVIRONMENT

SECTION 2:

ENVIRONMENT

SPORTS, BUSINESS.

DINING & HEALTH

October 12 - 25, 2018 17



The New West: It's easy to ban unpopular mines, harder to embrace self-limitation



BY TODD WILKINSON EBS ENVIRONMENTAL COLUMNIST

The late American conservationist David Brower was a friend of mine. He once remarked that "polite conversationalists leave no mark, save the scars upon the Earth that could have been prevented had they stood their ground."

Ask yourself this: Are you willing to stand in the breaches, protecting wildness against the constant,

incessant forces that are eroding what remains of a national treasure like the Greater Yellowstone Ecosystem.

This week there is victory.

In an action proclaimed by some as "a victory for tourism over mining," Interior Secretary Ryan Zinke came to the Greater Yellowstone. He announced that he was extending an Obama administration ban on proposed hardrock mineral explorations planned to occur near the front doorstep of Yellowstone National Park and along the rim of Montana's vaunted Paradise Valley.

For the broad array of professional conservationists, business leaders and citizens, Zinke's announcement brought relief and much deserved praise.

Zinke utilized what the powers of his cabinet position afforded him. Now it remains to be seen if the administrative prohibition can be made permanent through federal legislation brought by all three members of Montana's congressional delegation in the Senate and House.

The threat of one new mine opening up near Yellowstone's northern entrance, and another on the backside of Emigrant Peak, a summit in the Absarokas that towers over the Yellowstone River, has been a galvanizing force in a time of incredible partisan division.

An uncommon, diverse group of private interests rallied together for conservation, prompting Zinke, a former congressman from Montana, to repeat the well-worn cliché that there are some places more valuable than gold.

Indeed, point of fact, the Greater Yellowstone Ecosystem is chock full of irreplaceable natural wonders, for which all the money in the world couldn't re-create once destroyed.

converging with the Gallatin and Jefferson rivers to create the Missouri River.

The Madison is among an almost holy triumvirate of cold-water trout streams and it has been a lucrative hub for water-related tourism.

As a working river recreationally speaking, the Madison racks up tons of angler days by floaters and waders. And, in recent years, a stretch managed by the Bureau of Land Management west of Bozeman has come under exploding levels of traffic from inner tubers whose use has risen to industrial strength.

On some hot summer days, flotillas convey the look and feel of a commercial water park. Upstream, meanwhile, the number of angling days—and pressure on the fishery—has undergone its own form of eruption.

Who could argue with human beings enjoying, using and profiting from a natural resource?

In my 33 years of reporting, I've never seen a commercial tourism purveyor voluntarily agree to limit numbers of potential clients. The Montana Department of Fish, Wildlife and Parks says that in 2017 there were 179,000 angling days on the Madison and the trend is upward. Commercial use increased 72 percent in less than a decade.

As with the protracted, contentious battle over controlling the number of snowmobile users in Yellowstone following years of unregulated use, even harmful recreation use levels and impacts, once established, are enormously difficult to reverse.

Many wildlife officials I know say there needs to be an honest discussion, which currently isn't happening, about public land recreation or the very qualitative things we love about nature in this region—most prominently, the abundant wildlife—are going to be overrun and lost. It's already happening.

This isn't mere assertion; the impacts of unbridled recreation have been demonstrated over and over again in other parts of the country where wildness as we savor it here has been eroded.

So yes, it's momentous to stop proposed hardrock mines enormously unpopular with the public, but the true test of courage is politicians, business people, citizens, advocates and users agreeing to embrace limits on their own desires for the good of the resource.

Notably, no one has suggested that the remedy to resolve the clash of values over mining was to promote fuzzy collaboration; instead it was to draw a hard line.

More and more, there are two other clichés being bandied about in Greater Yellowstone besides the one that says, "there are some places more valuable than gold." These pertain to worries about "killing the goose that lays the golden egg" and "loving places to death."

Almost no one I've met in Greater Yellowstone fails to understand what's at stake as corners of our region—which holds the most iconic complex of wildlands in the Lower 48—come under rapid inundation by more permanent residents, expanding development, millions of visitors and crushing levels of use.

One example is the Madison River. The Madison is born in Yellowstone National Park and flows on a generally northwesterly course, eventually

Are we capable of doing that, or is 21st century industrial-strength tourism no different than 19th century industrial-strength mining; in the name of jobs and commerce behaving blindly to the impacts of our own exploitation and leaving the character of the landscape depleted in our wake?

To quote Brower again, who noted the need for tireless, endless vigilance in safeguarding the environment: "Our victories are temporary and our losses permanent."

Todd Wilkinson is founder of Bozeman-based Mountain Journal (mountainjournal.org) and a correspondent for National Geographic. He also is author of "Grizzlies of Pilgrim Creek" about famous Jackson Hole grizzly bear 399 featuring 150 photographs by Tom Mangelsen, available only at mangelsen. com/grizzly.



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Explore Big Sky

Raptors take to Montana's skies during annual fall migration

BY JESSIANNE CASTLE EBS CONTRIBUTOR

BOZEMAN – Big birds like big winds and the upward draft they provide. That's why Montana is home to two of the largest golden eagle migration corridors in the lower 48 states and thousands of predatory birds pass overhead en route to warmer winter ranges every fall.

Both the Bridger Mountains near Bozeman and the Big Belts east of Townsend, with their strong winds rocketing off the peaks, are known as important raptor flyways. On average, more than 1,300 golden eagles are counted flying over the Bridgers between late August and early November.

According to Amy Seaman, the conservation program manager for the Golden Eagle Migration Survey in the Big Belt Mountains, migration is triggered by a number of things. It could be a change in the length of the day, it could be a change in food resources and availability, or it could be a change in the weather.

"As pressures change, it triggers them to get up and move," Seaman said. "Often times, you get these really great flights right before or a few days after a storm."

She added that raptors, and especially golden eagles, rely on strong winds for flight. "They really love the wind coming in and they come cruising over the ridges very quickly," she said. "Golden eagles will sometimes still fly in bad weather. They love those high winds."

To celebrate the fall migration, Bozeman's Sacajawea Audubon Society partners with the Custer Gallatin National Forest, Montana Raptor Conservation Center and others in hosting the Bridger Raptor Festival each year at Bridger Bowl Ski Area. This year's event, held Oct. 6-7, included workshops with live bird demonstrations and information booths.

HawkWatch International conducts daily count surveys at a helicopter platform atop the Bridger ridge each fall. It is there that HawkWatch International has been monitoring the migration since 1991, recording 18 different raptor species and between 2,000 and 3,500 total birds each year.

Beginning in September, observers record ospreys, broad-winged hawks and Swainson's hawks, while October is the peak activity period for both golden and bald eagles. Rough-legged hawks tend to come through during the latter half of October.

"The best thing about raptor migration route sites is that raptors are pretty secretive with their nest sites, but you can survey so many species at once at a count site," Seaman said. "With long-term data, you can see trends in adult or juvenile abundance and other demographic data."

In recent years, golden eagle numbers have been in decline, and many researchers suggest it is due to land use changes, lead poisoning and climate change. "It's a lot of little things here and there that are adding up," Seaman said.

As of Oct. 2, Seaman said 338 golden eagles had been spotted in the Big Belt Mountains, while HawkWatch International reported 342 in the Bridgers as of Oct. 5.

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A juvenile Swainson's hawk. This raptor is one of many migrating over Montana this fall, on its way to warmer winter ranges. PHOTO BY LOU ANN HARRIS

Four to speak on conservation at MSU library fundraiser

MSU NEWS SERVICE

BOZEMAN - Four individuals noted for their work in conservation and science will participate in "An Evening of Conservation and Conversation," a fundraising event for the Montana State University Library. Hosted by the Friends of MSU Library, the free event will be held at 6 p.m. Tuesday, Oct. 23, in the Museum of the Rockies' Hager Auditorium.

As part of the event, Mike Clark, Jim Posewitz, Rick Reese and Cathy Whitlock will discuss their careers, as well as current environmental challenges facing the Greater Yellowstone Ecosystem. Todd Wilkinson, journalist, author and Mountain Journal founder, will pose questions and lead the conversation.

The event will also include a Q&A session with the audience. A reception featuring information and resources from local organizations will be held in the museum's lobby following the conversation. The event is free with a suggested donation. Doors will open at 5:30 p.m.

Clark, Posewitz, Reese and Whitlock were invited to participate in the event because of their vision, legacy and national impact within the conservation and science communities, according to Kenning Arlitsch, dean of the MSU Library.

Arlitsch said each panelist has a special relationship with the Greater Yellowstone Ecosystem and played a pivotal role in historical conservation efforts and/or scientific research throughout the region.

Clark served as executive director of the Greater Yellowstone Coalition from 1994 to 2001 and again from 2009 to 2013. Under his leadership, the organization led opposition to a 1989 bid by Crown Butte Mines to build a gold mine in the mountains near Cooke City, just northeast of Yellowstone National Park. Environmentalists feared that toxic mine runoff would harm nearby rivers and streams and that the mine would irrevocably damage Yellowstone. The effort drew national attention and a visit to the mine site from then-President Bill Clinton. Ultimately, in 1996, Clinton arranged a federal buyout of the company's interest in the mine—a deal Clark has been widely credited for brokering.

Posewitz, whom Wilkinson has called "a modern manifestation of Teddy Roosevelt and Aldo Leopold," had a 40-year career at Montana Fish, Wildlife and Parks before founding Orion, the Hunter's Institute, a group promoting hunting ethics and education. Posewitz is the author of a book on hunting ethics, "Beyond Fair Chase." He also led a successful fight in the 1970s against 42 dams that were proposed for the Yellowstone River.

Reese became involved in issues surrounding the Greater Yellowstone Ecosystem in 1980, when he and his wife were hired to run the Yellowstone Institute. He went on to become principal founder and three-term president of the Greater Yellowstone Coalition in 1983. Reese is also a noted alpinist who took part in a rescue on the Grand Teton in 1967, which was later featured in the documentary "The Grand Rescue."

Whitlock is a professor of Earth sciences at MSU who earlier this year was elected to the National Academy of Sciences, one of the highest honors a scientist can receive. She is the first scientist from a Montana institution to earn the distinction. Over her nearly 40-year career, Whitlock has produced groundbreaking research and has been recognized for her scholarship and leadership in the field of past climate and environmental change.

She was lead author of the 2017 Montana Climate Assessment, a report released by the Montana Institute on Ecosystems that focuses on climate trends and their consequences for Montana's water, forests and agriculture.

Jason Clark, head of MSU Library's Special Collections and Archival Informatics, said that Mike Clark and Rick Reese have donated notes, correspondence and documents pertaining to their careers to MSU Library's Special Collections and Archival Informatics, which holds more than 800 collections relating to agriculture, Montana history, Yellowstone National Park and the Greater Yellowstone Ecosystem, Native Americans in Montana, trout and salmonids and other topics.

"Special Collections capture the artifacts and stories that preserve history and help shape the future," he said. "By donating their papers, Mike and Rick are sharing the legacy of their professional expertise in conservation and are providing a foundation in primary source research for current and future students, historians and conservationists."

Founded in 1994, the Friends of Montana State University Library helps develop the library's collections, environment and programs in an effort to enable learning and research for students, faculty and all Montanans.

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ARCHITECT'S WIFE



THE LONE PEAK PLAYBOOK



BY BAY STEPHENS EBS STAFF WRITER

Volleyball

The Lady Big Horns have kept up a busy schedule in recent weeks, bringing their season record to 5-3 in their conference and 8-3 overall.

Lone Peak beat White Sulphur Springs decisively Sept. 27 and trumped Shields Valley on Oct. 2.

On Sept. 28, the Lady Big Horns went toe-to-toe with the Twin Bridges Falcons in Big Sky for a nail-biter victory, winning 3 sets to 2. Only six girls were available to play—the rest out with injuries, illness or traveling—yet beat a school that Lone Peak's sports teams have rarely defeated.

"Tve dubbed them the 'Sensational Six," head coach Missy Botha said. "They played for 5 sets without a substitution, and competed with such focus, determination and grit, they were able to pull away from the Falcons in the last set to clinch the historic win."

Although Athletic Director John Hannahs said a Lone Peak volleyball team has beaten Twin Bridges at least once in the past, he confirmed that this was the first victory over the team in Botha's tenure as coach and that no other LPHS sports team has claimed a victory over Twin Bridges.

"It was kind of hectic," senior captain Brooke Botha said. "Most of us haven't played in all of the positions, so that was definitely a challenge that we did overcome."

Solae Swenson, another senior and captain, said it was an exciting game, especially because she plays all positions regularly, so she had the opportunity to really encourage her teammates.

"It was just fun ... helping them figure out what to do if they were in a position that they [normally] didn't play," Swenson said.

The day after the exhilarating victory, the skeleton team played in a tournament at Manhattan Christian School, which did not go well with how tired all the players were, coach Botha said.

On Oct. 9, Lone Peak lost a hard-fought match to the Manhattan Christian Eagles. Last year, the Big Horns beat the Eagles twice in the



regular season, then lost to them in the district tournament. Coach Botha said she hopes to return the favor this year.

On Saturday, Oct. 17, Lone Peak will face off against White Sulphur Springs in their Spike for the Cure game sponsored by Ace Hardware, which will raise money through a raffle and donations to benefit the Bozeman Health Cancer Center. The junior varsity game is at 5 p.m., the varsity team plays at 6:30 p.m. and fans are encouraged to show their support by wearing pink.



Lone Peak High School Seniors Cole March (left) and Kegan Babick (right) will play their last down of high school football against Absarokee Public School on Friday, Oct. 12 at 7 p.m. for senior night. PHOTO BY BAY STEPHENS

Football

The Big Sky football season draws to a close for Ophir Middle School and Lone Peak High School with final home games against Absarokee Public Schools on Friday, Oct. 12.

The Lone Peak Big Horns lost to Twin Bridges on Oct. 28, losing the momentum just before halftime when Twin Bridges tied the game 20-20. In the second half, Twin Bridges outscored Big Sky by 8 points for a 34-26 win.

Cole March caught a touchdown pass from Frankie Starz, Kegan Babick rushed for two scores, and Starz also added one on the ground. Starz threw for more than 200 yards, and Austin Samuels had a big night in the receiving game.

The Big Horns lost 54-0 in their Oct. 5 game away against the Ennis Mustangs. Although Lone Peak held the Mustangs to 8 points in the first quarter, the "wheels fell off from there," head coach Adam Farr said, adding that the team's eight starters simply became exhausted because they played nearly every down.

The Lady Big Horn's "Sensational Six" pulled off a victory against the odds over the Twin Bridges Falcons on Sept. 28. From left to right, Madi Rager, Chloe Hammond, Brooke Botha, Solae Swenson, Dounia Metje and Ivy Hicks all played without substitutions to beat a team they had not beaten before. PHOTO COURTESY OF MISSY BOTHA It's been a tough season for the Big Horns, but they were lucky in terms of injuries, only losing freshman receiver Bennett Miller to a blown knee early in the season. Farr said he's proud of his team and how they've held up.

"The team keeps fighting every single game," Farr said. "It's awesome. They don't give up, even when the score's sometimes getting out of hand."

The Ophir Middle School Miners are wrapping up a stellar season with a 6-1 record, often scoring more than 50 points in their victories.

On Oct. 9, they buried West Yellowstone 76-19, controlling both sides of the line by forcing turnovers and relentlessly finding the end zone. The win was a big deal for the Miners, who had taken beatings from West Yellowstone—who played a 16-year-old halfback last year—the past two seasons.



Coach Ben Holst prepares his Ophir Middle School football team for a game against West Yellowstone the following day on Oct. 9. They ended up beating West Yellowstone 76-19, a cathartic victory that both players and coach have looked forward to for two years. Their record as of Oct. 10 was 6-1 with one game left in the season. PHOTO BY BAY STEPHENS

In an interview the day before the game, head coach Ben Holst told EBS, "These guys and I are pretty anxious to beat [West Yellowstone]—handily. ... If that goes the way we think it's going to go, that will be the favorite game of the year."

Holst wrote in an Oct. 10 email to EBS that it was a cathartic win. "If I had to pick a favorite, it would be that game, but wins are like kids, it's hard to pick a favorite.

Holst is the only coach for the middle school team, but has found success due to his players' leadership and teachability.

"I felt comfortable [coaching alone] just because I'd been coaching these eighth graders since they were sixth graders, and they're all good leaders," Holst said. On days when he is late to practice because of work, Holst's eighth graders will have the team warmed up and stretched by the time he arrives.

A large class of 10 seventh graders has been a boon for Holst, but he also noted how two sixth graders had earned spots as starters this season and are playing well.

"I think it's a combination of the personnel and their willingness to learn and play as a team," Holst said of the successful season. "They're also really unselfish, which makes them easy to coach."

Parental support has also been an advantage, Holst said. At his request, parents took photos and videos throughout the season, the latter of which Holst has been able to use to teach his players.

"I'm just really proud of these guys," Holst said, adding that the team didn't win a game two years ago and went 3-5 last year. "It's been fun to watch them succeed."

The club defeated Billings Christian School 4-2 away on Oct. 6.

"It was a total team effort," wrote coach Tony Coppola in an email. "The scoring was spread out and we had pretty solid defense. Nehalem Manka scored from the corner kick with a beautiful in swinging goal.

"Nolan Schumacher was extremely successful on the defensive third," he added. "He showed great composure and leadership in the back. I was very pleased with his play."

This bout of games ended with a 2-2 tie against Mt. Ellis Academy on Oct. 9.

Cross-Country

Junior Tracen O'Connor and freshman Nate McCain, Lone Peak's crosscountry pioneers, crossed finish lines in Missoula and Big Timber in recent weeks, continuing to go where no Big Horn has gone before.

In the Mountain West Invitational on Sept. 29 in Missoula, O'Connor



Freshman cross-country runner Nate McCain trains while coach David Brekke paces him on a bike for practice in Big Sky. McCain broke set a personal record time at a meet in Big Timber on Oct. 6 along with his teammate, junior Tracen O'Connor. PHOTO BY BAY STEPHENS

and McCain ran in a mob of 716 other runners, placing 405th and 611th, respectively. O'Connor ran the undulating course in 21 minutes, 35 seconds while McCain finished in 24 minutes.

Head coach David Brekke said the course had steep uphills and that his runners' times were stunted because they were stuck in the pack of runners on a narrow course.

The Crazy Mountain Run in Big Timber on Oct. 6 was a whole different animal. Competing on a flatter course against a field of only 29 runners, both Big Horns achieved personal best times in their first varsity run of the season.

O'Connor finished 19th with a time of 20 minutes and 30 seconds and McCain came in at 24th with a time of 22 minutes, 16 seconds.

Soccer

As of Oct. 10, the Big Sky Futbol Club was 5-2-2, with two games left in the season.

On Sept. 29, Big Sky beat Foothills Community Christian School 4-3, and on Oct. 2 tied the same team from Great Falls 2-2.

"[It was] a lot more peaceful," McCain said. "I guess because you didn't have 200 people at your back most of the race."

McCain said it's been helpful to practice with the more experienced O'Connor, who has been a role model for his running. McCain's goal time for their state meet on Oct. 20 in Missoula is 21:30, "because that was Tracen's time on his first run and I would like to beat that time," he said.

UPCOMING GAMES

Volleyball

Saturday, Oct. 13: Away @ Gardiner - JV 5 p.m., Varsity 6:30 p.m.
Wednesday, Oct 17: Home vs. White Sulphur Springs (Spike for the Cure) - JV 5 p.m., Varsity 6:30 p.m.

Football

Friday, Oct. 12: Home vs. Absarokee (Senior Night) – OMS 4 p.m., LPHS 7 p.m.

Cross-country

Saturday, Oct. 20: State XC meet in Missoula

Soccer

Saturday, Oct. 13: Petra Academy - 11 a.m. Tuesday, Oct. 16: Away @ Heritage Christian - 4:30 p.m.



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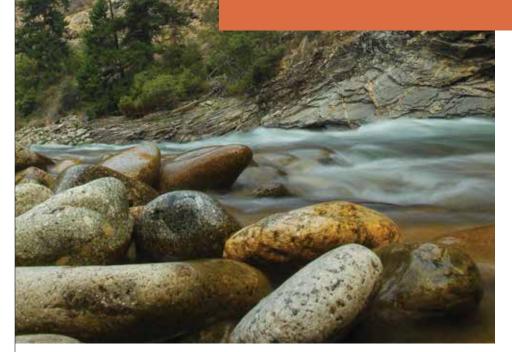


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Bobcats enter second half of season eager to keep growing

BY COLTER NUANEZ EBS CONTRIBUTOR

BOZEMAN – As the Montana State Bobcats reached the midpoint of the season, their most recent performance was disappointing for head coach Jeff Choate and his players.

"I was probably about as down as I have been in a long, long time and our players were too," Choate said, referring to the 34-17 loss to No. 5 Eastern Washington suffered by the Bobcats on Sept. 29 in Bozeman. "Our locker room was really somber. It was a tough loss."

Up close, a game defined by a seemingly never-ending string of mistakes by the hosts caused the Bobcats to play chase from midway through the first quarter. From an errant pitch in the red zone that made MSU settle for a field goal in a wild back-and-forth first frame, to a targeting call that resulted in the ejection of MSU sophomore cornerback Tyrel Thomas, the calamity of errors in the first half left the Bobcats down 24-10 at the break.

The second half wasn't much better as a penalty erased a trick play touchdown, and an offside penalty negated a recovered onside kick that proved to be Montana State's last gasp.



Eastern Washington senior Gage Gubrud threw for 311 yards and scored a rushing touchdown Sept. 29 at Bobcat Stadium. PHOTO BY BROOKS NUANEZ

"We've had this ongoing conversation about how do we measure up against some of the better teams in the Big Sky Conference? And clearly, we did not measure up," Choate said.

Montana State's 14th loss in its last 16 matchups with the Eagles was a bitter pill to swallow for a program harboring playoff expectations in Choate's third season.

But as the Bobcats entered their bye week, which doubles as the proverbial midpoint of the season, a big picture lens

midpoint of the season, a big picture lens indicates Montana State is about where many, both internally and externally, expected them to be.

"When we have stepped up in competition,



Montana State sophomore quarterback Troy Andersen is swarmed by a host of Eastern Washington defenders during the Eagles' 34-17 win in Bozeman on Sept. 29. PHOTO BY BROOKS NUANEZ

redshirt freshman Tucker Rovig threw for 310 yards and three touchdowns in a 47-24 win over Wagner in Bozeman.

Andersen rushed for 211 yards, the second-highest single-game total for a quarterback in Big Sky Conference history, in his return to the starting lineup as MSU opened up league play with 43-23 win at Portland State that was never in doubt.

But Montana State entered October with a lopsided loss to its second top-five opponent this season.

"The narrative I get when I talk to people about our program is that our talent level is increasing," Choate said. "We have recruited well. We are developing identity. And I think we are a little immature right now. We play seven seniors. Where they are mature is they understand the process. But they have to live through some of those moments, too. We are getting better. But Saturday wasn't good enough."

The Bobcats enter the stretch run with a 1-1 record in conference play and a 3-2 mark overall. MSU hosts Idaho for its homecoming game, and for the first time since 1995, on Saturday, Oct. 13, as the Vandals trudge through their muchanticipated return to the Big Sky Conference. The rest of October features road games at No. 6 Weber State and a steadily improving Idaho State.

Colter Nuanez is the co-founder and senior writer at Skyline Sports, an online newsgathering organization providing comprehensive coverage of Montana State and Big Sky Conference athletics at skylinesportsmt.com.



we haven't played very well," Choate said. "I don't think we were not competitive against Eastern [Washington]. I think we have closed the gap—but there is still a gap. And by the end of the season, we might close that thing all the way."

MSU earned a crucial 26-23 win over Western Illinois, a 2015 and 2017 playoff team, in Bozeman to open the season. The following week, Montana State traveled to Brookings, South Dakota, to face the first of two nationally elite opponents that made up the first half of this season's schedule. All-American quarterback Taryn Christion dismantled MSU's defense on the way to a 45-14 victory for No. 3 South Dakota State.

Montana State bounced back with a pair of dominant wins over teams MSU was expected to beat. With starting quarterback Troy Andersen on the shelf for the second straight week because of a left-hand injury,

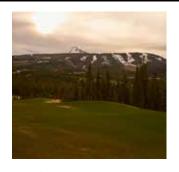
Bobcat junior receiver Kevin Kassis finds some daylight in the open field against Eastern Washington's defense. PHOTO BY ERIC LADD

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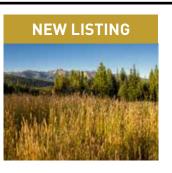
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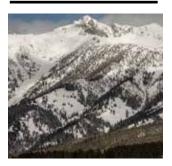
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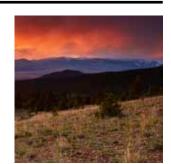
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Making it in Big Sky: Milkie's Pizza and Pub

BY BAY STEPHENS **EBS STAFF WRITER**

Wendy and Van Burton have run Milkie's since April 1994 when they opened in their current location between By Word of Mouth and The Wrap Shack.

The name came about when someone saw the Burtons' old business partner, Larry Hess, walking a golf course on a windy day wearing a rain suit in 1994; the onlooker said he looked like Milky the Clown—a kids' television entertainer in the 1950s and '60s—and the restaurant found a name.

Serving pizza, calzones, pasta and drinks from the bar, Milkie's has become a longtime locals' gathering place, equipped with a pool table, TVs to watch sports, and a jukebox for making memories.

As part of this ongoing series, Wendy Burton shared her thoughts with EBS about what it takes to make it as a small business owner in Big Sky.

Explore Big Sky: What has been the key to your success?

Wendy Burton: Growing up with the community. Both of our children were born and raised here. Most of us parents were just starting out or were already established. We tried to support each other and that still continues today.

Our customers are also key to our success. Without their continued support, we wouldn't be where we are. So, we strive to give them the best food, the best service, the best experience, [to offer] a place where they feel comfortable.

EBS: Do you remember your first customer or first sale?

W.B.: [Our] first customers were father and son, Dick and Dale Wambscan, and I think they had a pepperoni pizza.

EBS: What are the biggest obstacles to operating a small business in Big Sky?

W.B.: Our biggest obstacle was getting our liquor license. A community member protested our liquor license [because] he believed one bar in the neighborhood was enough. We had to collect over 500 signatures on a petition and present our case to the board of directors of the Liquor Division in Helena. Then we had to wait for their decision to come in the mail. We did win the case and received our license about six weeks after we opened.

EBS: How has the business landscape changed since you started out?

W.B.: When we first started out there were only a handful of businesses in Westfork. Southfork was beginning to grow and the Town Center was a long-term goal. Looking at Big Sky now, everywhere you look there is progress.

EBS: What is it about Big Sky that compels you to stick it out through the hard times?

W.B.: When you live in such a beautiful place where you can walk out your door and take a hike, go for a ride, fish, raft, ski or whatever you enjoy, that makes it all worthwhile.



Van and Wendy Burton with their daughter, Kelsie, stand behind the bar at Milkie's Pizza and Pub, which they opened when Kelsie was only six weeks old. PHOTO BY BAY STEPHENS

Some that came with their parents now are bringing their kids. We have locals who call us home. We are able to give when needed. We are one of those places we dreamed about. We are very grateful for all of this.

EBS: What's the best piece of business advice you've received?

W.B.: The best advice was to make sure you surround yourself with good employees, treat them with respect as they are your backbone. That's one thing we believe, if you work for us, you are family and even if someone moves on they are still family.

EBS: What advice would you give to small business owners just starting out in Big Sky?

W.B.: Be prepared to work hard, take pride in what you do, be consistent, and surround yourself with good people who love what they do. Another thing to remember is be patient if you make mistakes. ... We all do learn from them and move on.

EBS: Where do you see your business in 10 years?

W.B.: Not quite sure, tomorrow is not a given but for today I'm going to be the best person I can be and embrace the day.

EBS: Where do you see Big Sky in 20 years?

EBS: What is one of the most memorable moments you have had as a resident/ business owner in Big Sky?

W.B.: There are a lot of memorable moments but what stands out for us is how far we have come. We are a place where people come back year after year.

. . . .

W.B.: Bigger than I ever thought or wanted it to be.

EBS: Would you do it all over again?

W.B.: Yes.

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Small business offers local pet owners peace of mind

BY DOUG HARE

EBS STAFF

BIG SKY – It's been a little over a year since Jessica Wyman and Billy Langer decided to buy Hiking Hounds, the local dog walking and pet sitting service, from Renee Schwenn, who was moving back to Belgrade after growing her business in Big Sky since 2013.

The couple remembers the exact conference—held by the Asia-Pacific Economic Commission—in 2011 when they met while both working conference services for the resort. Getting up extra early in the morning to walk their own dogs before their 6 a.m. shifts is what initially got them started thinking about the needs of pet owners in town.

"It was a pretty quick decision. We approached Renee with an offer, and things moved pretty rapidly from there," Langer said about acquiring the business.

Wyman has been managing the administrative aspects of being a small business owner, while Langer can more often than not be found on local trails, typically going out with groups of four or five dogs, often including his own Emmet, a reservation rescue, and Louise, a Red Heeler, in the fun.

"They get out more energy when they run around in a pack," Wyman said. "The more play time the better." Hiking Hounds typical services include daily 20 or 40 minutes walks on trails such as the Reflector Loop, Porcupine Creek Trail, or Ulery's Lake; small pet care visits; and in-home dog sitting while families are away.

"It's definitely a personal business. People are trusting you with their favorite animals and letting you into their homes," Langer said. "So much of what I do is build trust from our clients."

The couple says they like giving families the freedom to take a day off to fish or ski, and they enjoy building relationships with the pets.

"The most rewarding part might be seeing a dog that is stoked to see you," Langer said. "Some of them know the sound of my car and can barely contain their excitement when they know they're going on a walk."

While business is steady, Wyman and Langer do not have plans to hire an employee in



Billy Langer is a man that our furry friends are always happy to see. In his first year as part-owner of Hiking Hounds, Langer has seen business steadily increase and he looks forward to accommodating the needs of pet-owners in a steadily-growing Big Sky. PHOTO BY JES LYMAN

the near future.

"We get calls all the time about opening a doggie daycare, where people can drop their dogs off and maybe going skiing for eight hours. But with the brick and mortar being so expensive, nothing like that is on the horizon," Langer said. "All I know is that we feel like we can grow along with this town."

Reflecting on the first year as small business owners, Wyman said, "As of now, we feel like a part of the Big Sky community that contributes a valuable service that doesn't leave a big footprint, and we look forward to the year ahead."





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We can learn a lot from the beef industry



BY SCOTT MECHURA EBS FOOD COLUMNIST

I was reading a food industry journal the other day called "The Produce News." It is full of information, such as how a heavy rain in a Mexican valley upped tomato prices by 9 cents; or how a carrot processor is moving their annual production from Salinas, California, to Yuma, Arizona. Riveting stuff I know.

But one article in particular struck me.

It was about the unusually high number of E. coli outbreaks in lettuce, primarily in romaine lettuce, in 2018.

Most produce processing facilities are enormous, with literally tons of produce passing through these plants in less than 24 hours. When I toured Mann's, in Salinas Valley, the loading lots are the size of a mall parking lot, and if you were to show up the next day, every container of produce would have been replaced from the day before.

I have seen some of the most technologically advanced machinery in the processing of produce, specifically lettuces and carrots, in action. The complexity, efficiency, and intricacy of these facilities is beyond words. And yet, when it comes to tracking the produce through its entire journey, it is shockingly done with old fashioned pen and paper.

But most producers and processers finally agree that this antiquated method needs a serious upgrade. And they have identified blockchain technology as the answer. With the use of an incorruptible digital ledger, blockchain should bring some clarity to such a massive and vital component of our food system. The goal is that all major producers will have a new digital tracking system up and running by October 2019.

In the current system, when an identified or potential outbreak occurs, produce must be painstakingly tracked down nationwide and discarded. It can take well over a week to trace heads of lettuce, spinach, or tomatoes. With the new proposed tracking system, it could take mear seconds. And without accurate, reliable tracking, the volume of food being thrown away to err on the side of caution, is inefficient, wasteful, and honestly, sickening.

All of this made me think, why hasn't this tracking system upgrade happened already? The beef industry has had pinpoint tracking of livestock for years.

If you are a seedstock rancher or raise cattle for their genetic makeup to be sold to ranchers who raise the cattle we eat, the amount of data kept and tracked is impressive.

And if you are a rancher raising livestock for consumption, the tracking is equally



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as detailed.

Those tags on a cow's ear have a series of numeric codes that contain a wealth of information. Stats on that animal are meticulously tracked at every stage of its provenance.

Their system and data is so thorough and precise that if a problem with a batch of steaks is identified in China, or France, or Florida, they know the exact ranch those steaks originated on, the birth date of that cow, and everywhere it was in between.

After the most recent E.coli outbreak in romaine lettuce, supplier giants Sam's Club and Walmart are leading the way in requesting that the current tracking system be updated, and offering their assistance to do so.

Say what you will about big corporations, but they do possess the clout and influence to do good.

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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BY JACKIE RAINFORD CORCORAN *ebs health columnist*



People often wonder if eating meat causes disease, and the short answer is that there is no conclusive evidence showing that it does.

While there have been many studies looking at the links between eating meat and chronic diseases like heart disease and cancer, it turns out that the conclusions are based on epidemiological studies that are performed in order to generate a hypothesis rather than draw concrete conclusions.

Sensationalized movies promoting a vegan diet like "What the Health?" and books like "The China Study" are based on epidemiological studies that show correlation but not causation. And they can be very misleading.

The problem with creating great studies on nutrition is that they're hard to do.

A verified clinical study takes a lot of time, people and money. It's challenging to keep politics and biases out of them, and there are many variables that have to be considered to get accurate results.

Consider all of these factors that epidemiological studies don't account for—at least not all in one study:

Are the subjects of the studies accurate and/or honest when they report what they ate and drank over a period of time? Was the meat that the subjects reported eating from fast food restaurants or clean sources? How do the subjects eat their meat—rare or well done? Do they eat while they're driving or in front of a screen? Do they also eat plenty of fresh vegetables?

Do the subjects exercise or have sedentary lifestyles? Do they have a family history of heart disease and cancer, and are they obese? Are they heavy

Do vegetarians live longer?

drinkers or smokers? Do they have healthy relationships? Do they experience chronic stress? Do they have a spiritual or mindfulness practice? Do age, education and income play a role in their food choices and overall health?

Here's a great example that sheds light on how we Americans, myself included, have been led to believe vegetarian diets are healthier than a carnivore diet:

A case for vegetarians living longer and healthier lives is often based on the residents of Loma Linda, California. This town of 22,000 people is home to a large population of the Christian faith-based group, the Seventh Day Adventists. They are 10 times more likely to live to 100 years old than the national average.

The reason for their longevity is often attributed to the fact that their religion requires them to eat a no- or low-meat diet. Countless articles have been written on this. While it's true that they do live longer lives, there are many other variables that must be considered. Their faith also instructs them to avoid drinking alcohol, smoking and drug use. It also advises them to exercise frequently, be involved in their community and live life with a sense of purpose and meaning.

Meat is not necessarily the villain. We need to take a look at the big picture of the standard American diet, our sedentary lifestyles, and chronic feelings of stress and isolation.

So, if eating meat makes you feel good, eat it. If you listen closely to your body, it will tell you what it wants and what it doesn't.

Jackie Rainford Corcoran is an IIN Certified Holistic Health Coach. Her purpose is to support others in becoming their best and healthiest version of themselves. Email her at jackie@corcoranhealth.com to schedule a complimentary 30-minute health coaching session. Check out her website corcoranhealth.com to learn more.





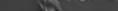
BY ANDREA WICK EBS HEALTH COLUMNIST

We live in a community centered around extreme sports and adrenaline, therefore adrenal fatigue or "hypoadrenia" is a condition I treat often. The adrenal glands sit on top of your kidneys and have the important job of secreting epinephrine, norepinephrine,

Ways to treat and prevent adrenal fatigue

The best way to start is by eating a clean diet and removing any food that taxes the adrenals, such as caffeine, sugars and sweeteners; carbohydrates (specifically wheat and corn), processed foods/meats; and hydrogenated oils (soybean, canola, and corn oil).

Adrenal support supplements are very important; adaptogenic herbs help support and nourish the adrenals. These herbs include ashwagandha, rhodiola, schisandra and holy basil. B-complex vitamins along with vitamin C, D and magnesium help to give the immune system an added boost along with natural energy.



cortisol and other critical hormones.

Epinephrine, norepinephrine and cortisol are part of the fight-or-flight response. In a Paleolithic setting these hormones aided human survival by encouraging running away from a bear or life-threatening event. However, in modern times, life stresses that are physical, chemical or emotional can trigger a similar response. The problem is when these hormones run through the body chronically, until the body completely "crashes and burns," and "burn out" sets in.

Other factors associated with adrenal fatigue or burn out are over-consumption of caffeine or alcohol, vigorous exercise (specifically cardiovascular), lack of sleep, poor diet, stressful life event (losing a loved one), and prolonged stress.

Adrenal fatigue symptoms include extreme fatigue, brain fog, weight gain, depression, anxiety, lack of motivation, sleeping but never feeling rested, weakened immune system, hair loss, decreased sex drive, and light headedness.

Do any of these symptoms sound familiar to you? Here are some tips to help recover your body.

Lastly, it's important to decrease stress as much as possible. This means doing moderate exercise, such as walking and yoga. Keeping the heart rate low is key. Take time to relax and practice self-care through mediation, massage, and other healing activities. Establish a regular sleep schedule of 8-10 hours and go to bed at or before 10 p.m. every night. Reduce caffeine intake, and avoid caffeine past noon. Adopt a routine that helps mitigate emotional stress, such as going to a counselor or practicing emotional release techniques. And be sure to make time to have fun!

Dr. Andrea Wick is a chiropractor and applied kinesiologist. She graduated from Life University in Marietta, Georgia, and now practices in Big Sky. She has a passion for holistic health care and being active in the outdoors. Her practice, Healing Hands Chiropractic, is located in the Meadow Village Center. Visit drandreawick.com to learn more.

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INSIDE YELLOWSTONE



Research links wolf color to survival and reproduction

BY JESSIANNE CASTLE EBS CONTRIBUTOR

BIG SKY – Ongoing research in Yellowstone is revealing a curious relationship between a wolf's coat color and its health. Preliminary studies with CRISPR technology—a tool for editing genomes—shows that something different is going on when a black wolf is exposed to canine distemper versus one that is gray.

Through a partnership with the University of California, Los Angeles, biologists from Yellowstone National Park developed cell cultures derived from skin swabs from the ears of wild Yellowstone wolves.

"This is the first time that cell lines [or cell cultures] have been developed and gone through such experimentation from a wild animal," said park biologist Dan Stahler during the Biennial Scientific Conference on the Greater Yellowstone Ecosystem held at Big Sky Resort in mid-September. Stahler is the project leader for the Yellowstone Wolf Project.

By introducing canine distemper to the cell cultures, researchers are trying to learn how black- and gray-colored wolves respond to the disease, and though preliminary, results suggest the response could be unique to the coat color.

"The mechanism might be, for example, [that the coat color gene] impacts how bacteria or viruses are binding to cellular receptors," Stahler said.

What got Stahler and others interested in this research in the first place was the realization that Yellowstone's wolves, though they are all of the gray wolf species, are a largely balanced population of 50-percent black and 50-percent gray.

"In vertebrates, pigmentation is really critical for a lot of traits—camouflage, sexual selection, thermoregulation, and even behavioral physiology," Stahler said. Knowing how important color is, the unusually balanced color population has set the stage for studies that explore the link between genetics, fitness and selection.

A wolf's coat color is determined by at least three different genes. Following gene theory, in its most basic sense, each gene comes as a pair and in the case of wolf color, can either be a gene for gray or black color. The black gene is

"Our homozygous black wolves did very poorly in our population. Their survival rate was low, their recruitment rate was low," Stahler said. "In contrast, the same colored individual, the same colored wolf [that is heterozygous black], has very strong reproductive success, survival rates and other vital rates that are slightly higher than homozygous gray."

Biologists also found that in years following large canine distemper outbreaks, black wolves had a higher survival rate than gray wolves. Conversely, though, by studying years of reproductive history, they learned that gray females had a 25-percent greater litter survival than black females.

"What we speculate may be going on here, is that there are tradeoffs," Stahler said. "There's a cost associated with certain gene actions. Because of this beta defensin gene, which is also causing black coat color, we think there's some link to the immune system and mounting an immune response that plays into energetics and reproduction versus survival."

In addition to the cell line studies, the tradeoff between survival—or improved immunity—and energetics and reproduction has been further explored by Kira Cassidy, a research associate for the Yellowstone Wolf Project.

Cassidy looked at aggression in Yellowstone's wolves, ultimately finding that gray wolves are more likely to chase off other wolves than black individuals are. Gray wolves also have higher cortisol levels, which act on aggression and stress response, suggesting that gray wolves are in fact more aggressive than black wolves.

Biologists hope that further analysis of observational data and additional cell line testing will further explain this relationship between coat color, survival and reproduction.



dominant, meaning that a wolf with both the gray and black genes, known as heterozygous, would look black.

Genetic tests indicate that the Yellowstone population is about 55 percent homozygous gray, where both coat-color genes express the gray color; 42 percent heterozygous black, where one gene is black and the other is gray, but the wolf looks black; and very few individuals are homozygous black, where both coat-color genes are black.

Stahler said these numbers aren't random. "There seems to be strong selection for the heterozygote black and selection against the homozygote black."

He added that a single gene can have multiple effects and one that alters color could also be altering other aspects of cellular function. Of the three genes determining wolf color, Stahler said the K-locus gene has been found to also impact beta defensins, which are proteins involved in the immune system.

Before conducting the cell line research, biologists looked at individual- and population-wide life history, pedigrees and genetics, which were compiled over the last two decades. What they found was striking.

Black and gray wolves in Yellowstone. New research is exploring the links between coat color, reproduction, energetics and survival. NPS PHOTO

Winter photography in Yellowstone and beyond

BY NEALA FUGERE *Yellowstone forever*

Your breath freezes in the frigid January air; last you checked, the thermometer in your vehicle read 25 F. Your hand instinctively wraps around the camera battery you've placed in your pocket as you wait patiently next to your tripod. Through binoculars, you notice an anticipated movement against the snowy landscape. Action! You rush to ready your camera, and within seconds you are capturing a pair of wolves—wild wolves—silhouetted perfectly against the blanket of white.

It's a rare scene like this that motivates many photographers to come to Yellowstone, according to Meg Sommers, a professional photographer and Yellowstone Forever Institute instructor. The longtime resident of Cody, Wyoming, has been helping institute students photograph Yellowstone since 2010. For Sommers, winter is an exceptional time to tell stories of the natural world through photography—wildlife is easier to spot against the snow. Even the landscape offers something new and spectacular, she said, where "frost can turn a blade of grass into something extraordinary."

But capturing these winter images comes with challenges. Sommers explains that photographers should be prepared to keep warm in sub-zero temperatures—knowing they may have to stay in one place for hours waiting for that perfect moment. She recommends wearing layers and bringing along hand warmers, as well as becoming familiar with the area they'll be photographing.

In terms of equipment, Sommers advises all serious photographers have a good camera body, a sturdy tripod, and a selection of lenses—both shorter and longer for landscapes and wildlife, respectively—as well as a solid understanding of their camera's settings.

The equipment itself can present its own set of difficulties in winter, Sommers warns. Prolonged exposure to frigid temperatures can quickly zap the life out of batteries; she recommends keeping them in your pocket for warmth. Photographers should take care when they head back indoors, as the humidity in the warmer air will condense on the equipment. To prevent this, she suggests placing everything in a sealable bag—like a large Ziploc—before moving indoors.

Wildlife photographers should also come to Yellowstone prepared with ample patience and respect for the wildlife they're hoping to photograph. Learning to wait for that magic moment will get easier the more times you're rewarded with a special image, Sommers says. The park requires all visitors to maintain a distance of at least 25 yards from wildlife and 100 yards from bears and wolves, both for the safety of the photographer and the wildlife.

With these tips in mind, Yellowstone's winter world is wide open for those yearning to capture its unique beauty and the wildlife that call it home. For Sommers, photographing the wonders of the park in the winter is the perfect way to connect to the landscape, and well worth the inherent challenges. "The lucky photographer will find animal behavior to photograph that helps to convey a story, giving us some small insight into what life is like in that moment in time," she said.



Snow and steam punctuate a February day in Hayden Valley. NPS PHOTO

For those ready to take their winter photography skills to the next level while experiencing Yellowstone's winter wilderness, the Yellowstone Forever Institute is offering a trio of photography-themed field seminars this winter. All courses are based at the Lamar Buffalo Ranch in Yellowstone's famed Lamar Valley and feature expert instructors.

Photography Rendezvous: Dec. 10-13

Instructors Dale and Angela Bohlke will guide you in capturing the stark and moving landscape of Lamar Valley in winter, and you'll leave with a collection of your own inspiring Yellowstone photographs. In the field, you'll practice techniques for capturing unique wildlife and landscape images. In the classroom, you'll learn how to simplify your camera settings, process images for maximum effect, and realize your creative potential.

The Art of Winter Landscape Photography: Jan. 23-26

Let the grand winter landscape of Yellowstone be your muse in this intensive workshop for intermediate to advanced photographers. With instructors Terry Donnelly and Tom Kirkendall, learn composition and processing tools that will expand your ability to see, create and communicate your visual understanding of the landscape. In the field, you'll explore the best options for light, lens choice and perspective. In the classroom, you'll hone your Photoshop and raw file processing skills, learning workflow techniques commonly used by professionals.

Winter Wildlife Photography: Jan. 30 to Feb. 2

For novice and veteran photographers alike, here's your chance to photograph Yellowstone's spectacular winter wildlife. With instructor Meg Sommers, you'll spend most of your time in the field, finding and photographing many diverse types of winter inhabitants. You'll also practice photographic fundamentals, techniques and the ethics of wildlife photography. In class sessions, you'll focus on composition, lighting, equipment and computer skills.

Learn more about these and other field seminars at yellowstone.org/experience. A version of this story was originally published in the winter 2017 edition of Yellowstone Quarterly.

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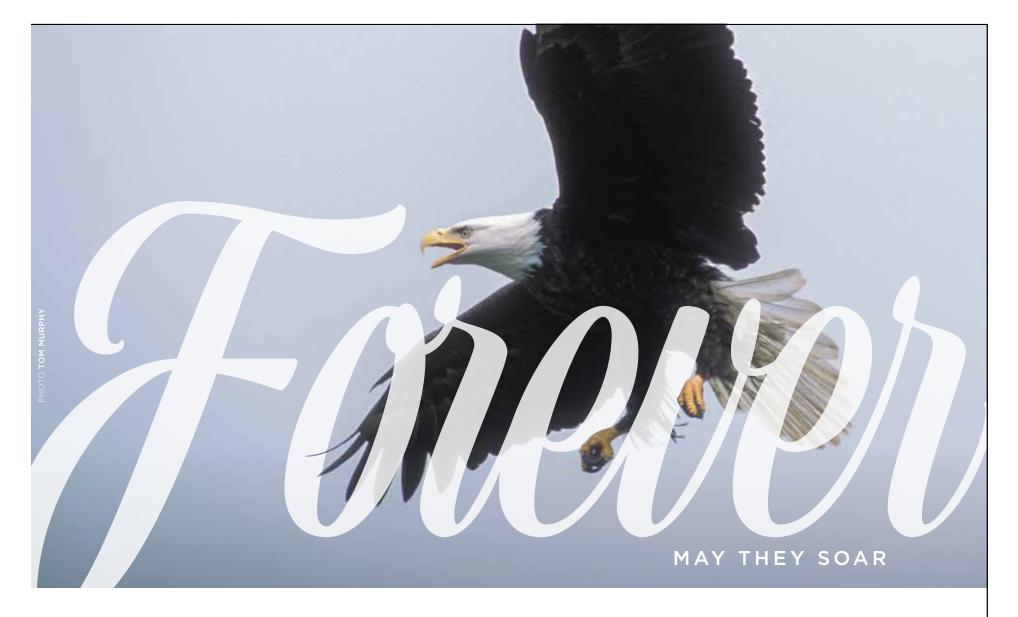
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New report shows continued growth in outdoor economy Government spending totals \$34 billion

BY JESSIANNE CASTLE EBS CONTRIBUTOR

BIG SKY – A new report released by the U.S. Bureau of Economic Analysis indicates that the outdoor recreation economy grew 1.7 percent in 2016, which was faster than the 1.6 percent growth for the overall economy.

The report also indicates that total government expenditures in the industry totaled \$34 billion that year, with \$4 billion coming from federal agencies such as the U.S. Forest Service and Department of the Interior, while the remaining \$30 billion came from state and local government.

The BEA produces data for the public about the nation's economy, to include statistics like gross domestic product, in order to assist government and business decision makers. These economic statistics provide a comprehensive, up-to-date picture of the U.S. economy and impact monetary policy, tax and budget projections.

Headwaters Economics in Bozeman assisted with this report, which was published Sept. 20 after an initial draft was released for review in February.

"Outdoor recreation is a massive industry, it's larger than pharmaceutical sales," said Headwaters Economics Executive Director Ray Rasker, who served as a contractor and advisor to the BEA for this analysis. Rasker added that the outdoor industry is 2 percent of GDP and within the West, it accounts for 1.9 million jobs.

"Federal lands, specifically, create about \$51 billion in outdoor expenditures. We have 143 million Americans participating in outdoor recreation," he said.

In the report, outdoor recreation is broken into three categories, with spending, or gross output, broken down accordingly. Conventional core activities, like bicycling, hiking and hunting, amounted to 32.7 percent of gross output; other core activities, such as gardening or outdoor concerts accounted for 19.3 percent; while supporting activities that include construction, travel and government expenditures, made up for the remaining 47.9 percent.

With a booming outdoor economy, Rasker said the importance of public lands is ever growing: "The values of public lands are diverse. It's not just resource extraction versus

recreation. There are dozens of other ways we can talk about values." He went on to describe other attributes, like increased quality of life, access to drinking water, and nature's ability to engage youth.

Rasker added that many businesses use outdoor recreation and beautiful views as a tool for recruitment, which has become all the more accessible as technology changes and society becomes more connected.

"Much of the story is uncovered when you start looking at the data. It's really fascinating to visit with business leaders and say, 'Why are you here?' and learn the role public lands play," he said.

Visit bea.gov/news/2018/outdoor-recreation-satellite-account-updated-statistics-2012-2016 to view the full report.

Real Gross Output for the Largest Core Outdoor Recreation Activities, 2016

(Millions of chained 2012 U.S. dollars)



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On the Trail: Ralph's Pass

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

BY CIARA WOLFE BSCO EXECUTIVE DIRECTOR

Ralph's Pass, a 2.7-mile intermediate pathway connecting two popular Big Sky trails, Ousel Falls and Uplands, provides an enjoyable experience for all. Quality trail construction and design enhance any hike, bike ride or run through the diverse scenery along the trail. Ralph's Pass opened in June 2017 after three years working toward securing easements from 10 private landowners and garnering funding from multiple sources.

I started my Ralph's Pass hike at the Ousel Falls trailhead. I headed down the Ousel Falls trail for one-third of a mile and then took a left. From there, I followed the South Fork of the West Fork of the Gallatin River through a heavily forested area. Please leash your dog after passing through the gates onto private property. After passing through the gates, you'll travel across some of the longest boardwalks in Big Sky, crossing wetlands and climbing up several switchbacks until reaching a gravel road that serves as a private driveway.

After crossing the road, the trail will climb a little more and continue through a wooded area with views of a meadow below and the steep cliffs carved by the South Fork. After a short descent you'll come to another road crossing.

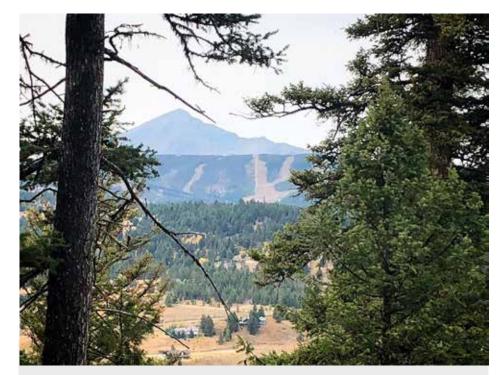
In the remaining mile of this trail, you'll meander through several small meadows and climb approximately 800 feet on three series of switchbacks. The switchbacks are designed to be user-friendly with wide corners and berms. Be sure to stop and enjoy the scenery on the last series of switchbacks; Lone Mountain, Pioneer Mountain and Beehive Basin are all visible from this part of the trail.

At the end of this climb, you'll reach a beautiful mountain meadow with abundant wildflowers and signs of wildlife. The end of Ralph's Pass is marked by a gate located at the top of the Uplands Trail. Follow Uplands for a 1-mile descent to the Hummocks and Uplands trailhead.

Start from the Ousel Falls trailhead for a consistent 2.7-mile climb to Uplands followed by a steep 1-mile descent to the Uplands trailhead. I would recommend that trail runners and bikers traveling one way start at Uplands trailhead for a quick climb and gradual descent on Ralph's Pass. You can also connect the two trailheads on Aspen Leaf Drive using the Ousel Falls Road trail to create a 7-mile loop on the community trail system from Town Center.

Please note that the trail is open from June 15 - October 15 each year, so get out there this weekend to enjoy the fall colors before it closes to protect sensitive wildlife habitat.

Visit bscomt.org for more information about Big Sky's parks, trails and recreation programs.



A view of Lone Mountain as seen from Ralph's Pass, a connector pathway between Ousel Falls and Uplands trails. PHOTO COURTESY OF MOONLIGHT BASIN





Distance Uses

4 miles one- Hike, bike, run way from Ousel

Falls Trailhead to Uplands Trailhead Difficulty Elevation Moderate 6,540 feet at Ousel Falls Trailhead and 6,285 feet at

Uplands Trailhead



Surface

Dirt

Directions: The Ousel Falls Trailhead is located 2 miles south of Lone Mountain Trail off of Ousel Falls Road. The Uplands trailhead is located near Town Center. Head east on Aspen Leaf Drive, cross a bridge over the river and continue up the road until you see the parking area and trailhead on the left.

*Dogs must be on leash; open June 15-Oct. 15.





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Keep your season going: winter fly fishing and angling travel

BY PATRICK STRAUB EBS FISHING COLUMNIST

The countdown has begun for an annual end-of-season saltwater flats trip this year myself and a group of our fly-shop customers and staff are headed to a new destination in southern Belize. After spending more than seven months helping others enjoy more out of their fishing, I need some time in the bow of the boat with someone else ensuring my day is a success.

Whether you've got the time and resources to travel to fish, or have to stick closer to home, just because the days are shorter and the nights are colder doesn't mean you have to forego angling for another six months. Now is the time to enjoy winter fly fishing or plan a trip you've been thinking about for years. Here are some ideas to keep you on the water, locally or internationally.

Trophy brown trout are closer than you think. From walking and wading the Madison River in Yellowstone National Park and dragging streamers on the Yellowstone River, to swinging a two-handed rod on the Missouri River at "Land of the Giants," now is the time to wrap your hands around a 2-foot brown trout. But it will not come easy. For example, if you head to the Madison in the park, you should hike in very early in the morning to get the best spot and begin fishing at dawn—large brown trout feed more aggressively in low-light conditions.

If you just want to fish and massive brown trout are not your primary target, nearly all of our local rivers are open to fishing through the winter. The exception is Yellowstone National Park waters, which close at sundown on Nov.

4. Try one of the Paradise Valley spring creeks—a rod fee is required, but it's substantially less than their peak summer rates and if you choose an overcast day you may experience a prolific Blue Winged Olive mayfly hatch. If you go, bring a 3or 4-weight rod, some 5X or 6X tippet and a long leader, as these fish know a good drift from a bad one.

The Lower Madison is an often-overlooked fall and winter fishery. The primary factor here is wind, and how much it happens to be blowing on a given day. As a teenager I'd fish it most weekends, swinging soft hackles through troughs. As I got older I'd focus more on seams, looking for rising fish. Both are still very good ways to fish the Lower Madison. However, if you turn the corner and head south at Black's Ford and the wind is stiff and blowing downstream, I recommend turning around and heading to the protected Gallatin Canyon.

If you've just had enough of Montana—which is hard to do—or if you've got a bucket list, angling travel might be in your future. From Caribbean saltwater flats to New Zealand helicopter fishing, there's a trip out there for every taste and budget. If trout are your fancy, our winter is summer in the Southern Hemisphere, which means there is a destination out there where a fish will eat your Chubby Chernobyl while your friends back home are shoveling snow. If sand in your toes or stalking a tailing bonefish or permit gets you excited, there are dozens of proven destinations to whet your saltwater flats appetite and give you a break from the long Montana winter.

International angling travel is also a unique way to see the world. I've been fortunate to fish some amazing places. From tigerfish on Africa's Zambezi River and small spring creeks in Patagonia, to Providence Atoll in the Seychelles, my angling lineup is varied and plentiful. To make some of these trips happen I had to save money or make money to pay off the cost of a trip, or in my younger years, eat ramen noodles and hot dogs for weeks before and after a trip. But the intrinsic value to my angling soul was priceless; what the ramen noodles and processed meats did to my body, well, I'll learn more when I'm 50 and might pay for it then.

If you're interested in learning more about angling travel—on a noodle budget or not—feel free to reach out to me at gallatinriverguides@gmail.com.

Pat Straub is a 20-year veteran guide on Montana's waters and has fished the world-over. The co-founder of the Montana Fishing Guide School, he's 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.



Don't let the shoulder season get you down—near or far, there is always a fish to be caught. Winter angling and traveling to fish are good for your angling soul. PHOTO COURTESY OF GALLATIN RIVER GUIDES

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RESORT ROUNDUP Your guide to events, activities and news at Big Sky Resort

Big Sky Resort hosts Pray for Snow party to benefit Big Sky **Youth Empowerment** Chance to win Gold Season Passes and an old Shedhorn chair

BIG SKY RESORT

Big Sky Resort and Big Sky Youth Empowerment are kicking off another winter season by hosting a Pray for Snow party on Saturday, Oct. 20 from 7 p.m. to 11 p.m. at the Rialto Theater in downtown Bozeman.

Pray for Snow party highlights include live music from Paige and the People's Band, a live raffle with a chance to win two Big Sky Resort Gold Season Passes, snowboards, skis, and a piece of history—a chair from the old Shedhorn double chairlift. Big Sky Resort will also be on site for season pass printing and sales, plus an exclusive buddy pass offer. Raffle tickets for the two Big Sky Resort Gold Season Passes can be purchased in advance at go.byep.org/raffle. All raffle and event admission proceeds directly support BYEP.

Big Sky Youth Empowerment provides opportunities for at-risk teenagers from Gallatin County to experience success with the goal of becoming contributing members of the community through outdoor adventure and group mentorship. The organization has a program where youth are grouped with peers, mentors, and program managers for weekend adventures and weekday workshops. These adventures are designed to build confidence as teens and their mentors explore Montana's outdoors.

Now in their 19th year of partnership, Big Sky Resort is proud to host BYEP at the resort each winter, as part of a larger commitment to ensuring that teenagers in the local community benefit from the same therapeutic and rejuvenating aspects of skiing that we all enjoy.

"Skiing is important to me because it's a place where I finally get to just chill," said Travis, a BYEP participant. "The world stops being so hard for a while."

"I get to see myself grow," said another program participant, Rebekah. "I don't feel afraid to try new things and put myself out there."

Skiing at Big Sky is a highlight of BYEP's winter programming. Last year alone, there were more than 1,200 participant ski days from BYEP's programs at Big Sky Resort.



Big Sky Resort's Pray for Snow party benefits Big Sky Youth Empowerment, a nonprofit that exposes local teenagers to the therapeutic and rejuvenating aspects of skiing. Last season there were more than 1,200 participant ski days from BYEP's programs at the resort. PHOTO COURTESY OF BIG SKY YOUTH EMPOWERMENT

"We absolutely could not have a winter program without the continued support of Big Sky Resort," said McKenzie Ball, business development and events manager at BYEP.

Visit bigskyresort.com/prayforsnow for more information.

New Doppelmayr chairlifts on schedule to open mid-December

EBS STAFF

Crews from the Austrian company Doppelmayr and Big Sky Resort have entered the final phases of installing Ramcharger 8



on Andesite Mountain, as well as their upgrade of the Shedhorn chairlift, located beneath the south face of Lone Mountain.

Ramcharger 8 is an eight-person, high-speed, D-line chairlift, the first of its kind in the world and considered one of the most technologically advanced lifts ever built.

"With the ability to move over 3,000 people an hour to the top of Andesite comfortably, the new Ramcharger 8 lift will certainly be moving skiers and snowboarders from the base area much more quickly," said Randy Woolwine, Doppelmayr's vice president of sales. "The new Shedhorn quad will cut the ride time down by half. And with the addition of Powder Seeker last season, you will see both a more enjoyable lift experience and more time skiing all around."

While the approaching winter weather will make the final stages of construction more difficult, Woolwine said that they have completed all of the cement work and most of the major infrastructure needs and remain on schedule. Both Ramcharger 8 and the high-speed quad Shedhorn lift are slated to open on Dec. 15, when Andesite Mountain will open for the season.





Crews from Big Sky Resort and Doppelmayr continue to make progress installing Ramcharger 8, an 8-person, high-speed, D-line chairlift, the first of its kind in the world and considered one of the most technologically advanced lifts ever built. If all goes according to plan, Ramcharger 8 will open on December 15. OUTLAW PARTNERS PHOTOS





Inside the Big Sky

Digital media transforms tourism

VISIT BIG SKY

On Sept. 27, World Tourism Day was celebrated by countries all over the globe, and locally here at Visit Big Sky. The purpose of this global day of celebration is to highlight the economic impact of tourism.

This year's theme was "Tourism and the Digital Transformation"—how the use of digital media can support the sustainability of destination management and tourism. We celebrated the recreational beauty of Big Sky with a hike up Dudley Creek and used our digital resources to share it with the world.

This stunning terrain is home to bears, bighorn sheep, deer, elk and groves of Aspen that had begun their autumnal transformation. The first few miles of the trek are shaded by lodgepole pines and carpeted with colorful shrubbery. This is where we found our first evidence of bears in the form of claw marks on a large pine—a wonderful image to share with the international community to inform visitors what to look for while adventuring in this wilderness.

There were three water crossings which took some rock-hopping to get to the other side, but after about 3 miles, the trail opened up into a marvelous alpine meadow, hemmed in by a wide scree field and Aspen groves. The foliage of gold and red leaves were spectacular, as was the burgundy holly-like Kinnikinnik groundcover.

The hike continued for another mile with intermittent steep climbs and level trail with panoramic views of the surrounding peaks. The last mile to Dudley Lake, the reward at the end of the trail, was the steepest ascent. Visitors that stop by the information center are often afraid to go into the wilderness



The staff of Visit Big Sky celebrated World Tourism Day by taking a hike up Big Sky's Dudley Creek. PHOTO COURTESY OF VISIT BIG SKY

without a guide. We hoped that sharing our hiking experience on digital platforms will make for safer and more conscientious outdoor adventurers here in Big Sky.

Read more about Big Sky and southwest Montana at visitbigsky.com.



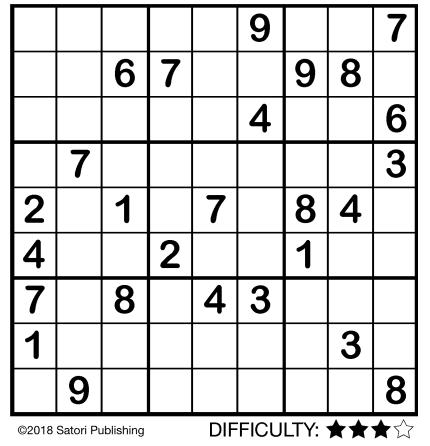
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American Life in Poetry: Column 707

BY TED KOOSER, U.S. POET LAUREATE

Peter Schmitt is a Floridian, and the following poem is from his book, "Renewing the Vows," published by David Robert Books. Poetry seems to be the perfect medium for brief anecdotal stories, but most of us have higher expectations of a poem, believing it should reach beneath the surface and draw up something from the deeper parts of experience. This is just such a poem.

The Bench

By Peter Schmitt

"It's all like a bad riddle, our widow friend said at the time. If a tree falls in the woods and kills your husband, what can you build from it?" That she was speaking quite literally we did not know until the day months later the bench arrived, filling that foyer space in the house the neighbors pitched in to finish.

She'd done it, she said, for the sake of the boys, and was never more sure of her purpose than when they were off, playing in the woods their father loved, somewhere out of earshot and she would be struggling in with groceries. For her, it was mostly a place to rest such a weight, where other arms might have reached

to lift what they could. Or like the time we knocked at her door, and finding it just ajar, cautiously entered the sunstruck hallway, and saw her sitting there staring into space, before she heard our steps and caught herself, turning smiling toward us, a book left lying open on the bench beside her.

We do not accept unsolicited submissions. American Life in Poetry is made possible by The Poetry Foundation (poetryfoundation.org), publisher of Poetry magazine. It is also supported by the Department of English at the University of Nebraska-Lincoln. Poem copyright ©2007 by Peter Schmitt, «The Bench,» from "Renewing the Vows," (David Robert Books, 2007). Poem reprinted by permission of Peter Schmitt and the publisher. Introduction copyright © 2018 by The Poetry Foundation. The introductions author, Ted Kooser, served as United States Poet Laureate Consultant in Poetry to the Library of Congress from 2004-2006.



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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"

There's more to pumpkin than pie

BY CARIE BIRKMEIER EBS STAFF

There are more than 40 varieties of pumpkins in the world, but the bigger pumpkins that are perfect for carving a jack-o-lantern are less than ideal for eating. In fact, the large varieties of pumpkins are bred specifically to be oversized, hollow and flat-bottomed for decorative purposes. They possess a thinner shell with less guts and flesh inside, making them ideal for carving. Their flesh tends to be watery, fibrous and bland, although the large seeds from this variety are perfect for roasting.

Pumpkins grown for consumption will have a more robust, nutty flavor and contain more nutrients. Opt for a small fruit, weighing between 4 and 8 pounds. Their flesh will be denser and less stringy than decorative pumpkins, closer to that of a winter squash. Here are a few varieties, often more ambiguously labeled as sugar pumpkins, to look for if you wish to cook or bake a pumpkin at home.

Baby Bear pumpkins are very tiny, usually weighing less than 2 pounds. They are deep orange in color and are ideal for purees because of their smooth flesh. For an extra festive touch, their small size makes them the perfect candidate to hollow and use as a serving dish.

Baby Pam, or sugar pies, are one of the more common edible pumpkin varieties, and are slightly larger than baby bears. Baby Pams have thinner skin than most other varieties, making them a great option if you prefer to peel your pumpkin before cooking. Their flesh is fine-grained, sweet and lacks moisture, making them a great selection for pies.





The pumpkins you find at most pumpkin patches are not the best for eating, but they're ideal for carving or decoration. CC PHOTO

easy to scoop the soft, cooked flesh from the skin. In applications where you wish to dice or slice the flesh, the fruits can be peeled, but a paring knife will make the job go faster than a vegetable peeler.

Pumpkins are a great source of dietary fiber, as well as vitamins A and C, potassium and iron. Pureed pumpkin freezes wonderfully and can be used to make a great soup or as addition to baked goods throughout the winter. While most uses today are sweet applications such as pies, breads, pancakes and lattes, pumpkin can really be used in any way you might prepare any other winter squash.

Here is one of my favorite side dish recipes to bring to your next fallthemed potluck or Thanksgiving dinner.

Roasted pumpkin with radicchio

1 Baby Pam pumpkin, diced into bite sized pieces ¹/₄ head radicchio, sliced thin

Cinderella pumpkins are delicious, and their vibrant red color makes them a great option for a festive decoration. CC PHOTO

Cinderella pumpkins can't be missed with their vibrant, reddish-orange flesh. They are an heirloom variety, meaning their seeds have not been genetically modified. They have a sweet flavor, but their smooth, velvety texture differentiates them from other varieties. This variety provides double duty as a beautiful decoration and a versatile option for many winter squash recipes.

After choosing a proper pumpkin, you can prepare it similarly to any other winter squash, such as a butternut or acorn. Their thick skin makes them difficult to peel, so I often roast them with the skin on. Halving the fruit and removing the inner fiber and seeds before roasting makes it 1 shallot, sliced thin olive oil balsamic vinegar salt and pepper, to taste ¼ cup toasted pine nuts ¼ cup chopped parsley

Preheat oven to 400 degrees. Place pumpkin on one sheet tray and radicchio and shallots on another. Toss the vegetables in olive oil, salt, pepper and balsamic vinegar and roast until tender. The pumpkin will take 30 minutes to roast and the other vegetables only 15 minutes.

Remove from oven and combine vegetables together, arrange on a serving tray, and top with pine nuts and parsley.

A version of this story was first published in the Oct. 13, 2017, edition of Explore Big Sky.

Explore Big Sky

ARTS & ENTERTAINMENT

October 12 - 25, 2018 45





BY SARAH GIANELLI EBS SENIOR EDITOR

BIG SKY – A whole corner of Marin Palmer's small apartment is devoted to art supplies—stacks of little drawers to organize her rock-hounding treasures, and overflowing baskets of paints, crayons and other crafting materials.

The 28 year old came to Big Sky just over five years ago. She was working in a Boyne Resorts' ski and golf shop outside of Detroit, when she took a trip to Big Sky Resort and was blown away by the area's beauty, especially iconic Lone Mountain.

"That mountain is such a classic," Palmer said. "When you learn what mountains look like, that's the mountain you draw. There are mountains everywhere, but this one is so striking."

Within a year she relocated to Big Sky and continued to work for Boyne. Today she is mountain operations manager, an administrative position in which she coordinates between all the mountain departments from lift and fleet maintenance to grooming.

"Pretty much everything that's on the mountain that isn't nature," she said.

For a brief stint Palmer, who was raised in a highly creative environment, thought she would go into graphic design but had an inkling that ultimately it wasn't for her.

"It was kind of nagging at me the whole time I was taking classes," she said. "That maybe this isn't for me. It wouldn't be sacred anymore if it always meant doing something at someone's behest ... and I didn't want my soul to shrivel up, like I thought it might."

Palmer had always painted with acrylics and oil, but began experimenting with crayons in 2015 after seeing a video of melting and manipulating the wax with a hair dryer.

Her process has evolved since then, finding ways to create more depth and have more control over the liquid medium.

She starts by scribbling a loose image to guide her placement and color choice, and then starts shaving the crayons onto the canvas with a palette knife. She holds an industrial heat gun that can reach a temperature of 1,000 F over the canvas and paint- and wax-splattered table, careful not to get too close, but close enough to melt the shavings into speckles.

She adds more wax and trades in the heat gun for a hair dryer and proceeds to blow it around the canvas, the colors merging into visions of the cosmos. Lastly, she paints silhouettes over top—mountains, people—and adds multi-media accents, like metallic leafing for trees. Lately she's been sealing her paintings with a glossy resin and some of her pieces glow in the dark.

Marin Palmer: Turning chaos into order



Big Sky artist Marin Palmer demonstrates making paintings with crayons using an industrial heat gun to melt the initial layer of wax shavings. PHOTO BY SARAH GIANELLI

"This is going to be like a reflection of the Milky Way," she said about the painting before her.

As evidenced by her paintings, Palmer is captivated by the sky, particularly the night sky, and the novelty of replicating it has not yet worn off.

"This painting is kind of how I feel," she said, pointing to a piece on her wall of a woman silhouetted beneath a star-studded sky. "It's the sheer smallness you feel in looking at the sky ... everything else is minimized. And when the lighting is just so, only for a couple minutes in the morning and evening, the colors in the sky are magical. I love all the different things the sky can do."

Palmer also makes jewelry which, along with her paintings, she sells under the name Lone Peak Jewels.

She's wearing one of her pieces—polished rectangles of moss agate strung on a leather cord with accents of brass. She bought a string of these particular stones, but more often she finds them in the natural world.

She pulls out drawer after drawer of tiny, raw stones: calcite from Red Cliff, sapphires from Philipsburg, garnets from Alder Gulch in Virginia City.

She takes out pendants of petrified wood from Cliff Like, and a bowl filled with a



The finished painting Palmer began during her interview with EBS. PHOTO BY MARIN PALMER

melted-down iridescent metal.

The bismuth starts as silvery chunks, but when melted down forms rainbow-hued metallic crystals that, with the change in their molecular structure, look like little imperfect temples that she fishes out of the molten metal and turns into studded earrings.

Making jewelry and painting fulfill Palmer in different ways.

"The jewelry-making is kind of like playing with Legos; you can make so many variations and that's very stimulating to me," she said.

Painting, she says, is more like magic.

"You see the mess [this painting] is right now, but to know it's going to turn into a crazy galaxy, into exactly what I envision ... I'm kind of amazed by that. It's cathartic because it's a resolution. You start with chaos and you end with order. I guess in a way I'm selling my therapy."

In addition to having a booth at the Big Sky Farmers Market this summer, Palmer will have a show at Zocalo Coffee House in downtown Bozeman from mid-November to January. Her work can also be found on Etsy and Facebook by searching for Lone Peak Jewels.

Celebrate Halloween at the inaugural Haunted Peaks Festival

LONE MOUNTAIN LAND COMPANY

Big Sky Town Center, Lone Peak Cinema and Lone Mountain Land Company will host the 2018 Haunted Peaks Festival from Friday, Oct. 26, through Sunday evening, Oct. 28.

The weekend-long event will begin with a dance and costume party along Town Center Avenue including live music, food from local vendors, and family activities on Friday from 5-11 p.m. Also taking place on Friday is Big Sky's first Pumpkin Stroll and the crowning of the Pumpkin King and Queen.

Bring a carved pumpkin with a battery operated votive—no flame candles—to the bear statues in front of Lone Peak Cinema between 5:30 and 6 p.m., and they'll be displayed along the sidewalks in Town Center. The judging will take place at 6:30 p.m. and announced at the Lone Mountain Land Block Party. The two best carved pumpkins will be crowned Big Sky's Pumpkin King and Queen and their creators will receive free weekend passes to the Haunted Peaks Horror Fest.

Saturday features the Mini Monster Mash from noon to 2 p.m., which includes a kids' costume parade and trick-or-treating with local businesses. Prior to this family event, Compass Café and Steele Press Juices will host Frankenstein's Morning Cocktail Lounge with specialty daytime cocktails from 9 a.m. to noon.

Other featured events for the weekend include a Geocache Mystery contest Friday through Sunday; an Illuminated Labyrinth and performances in Town Center Park; a Yappy Hour and dog costume gathering; the horror film festival at Lone Peak Cinema; and Glow-in-the-Dark Dodgeball with a DJ to culminate the weekend at Town Center Park.

Lone Peak Cinema will be hosting Horrorfest throughout the weekend with family friendly movies, classic horror films, live music and director appearances.

"We are thrilled to be a part of the Halloween festivities in Big Sky again this year," said Ryan Hamilton, project manager for Big Sky Town Center. "The goal is to put Big Sky on the map for outstanding Halloween festivals during this fun and engaging holiday. We hope to see both locals and visitors enjoying all the fun activities that have been planned this year by our dedicated committee, and we hope to attract even more visitors next year."

All Haunted Peaks events will be free to the public. Tickets for Lone Peak Cinema's Horrorfest are available by calling (406) 995–4478 and visit lonepeakcinema.com for more information.

SCHEDULE OF EVENTS:

Friday, Oct. 26

Pumpkin Stroll, Crowning of Pumpkin King and Queen: 5-7 p.m. Haunted Peaks Block Party and live band: 7-11 p.m. Geocache Mystery day one: Starts at dusk Horror Fest outdoor double feature: 10 p.m. to midnight

Saturday, Oct. 27

Frankenstein's Morning Cocktail Lounge: 10 a.m. to noon Mini Monster Mash: noon to 2 p.m. Geocache Mystery day two: Starts at dusk Yappy Hour, dog costume gathering: 5-6 p.m. Down Town Haunted Happenings and Illuminated Labyrinth: 6-8 p.m. Horror Fest films and events: 2 p.m. to 2 a.m.

Sunday, Oct. 28

Frankenstein's Morning Cocktail Lounge: 10 a.m. to noon Geocache Mystery day three: Starts at dusk Glow in the Dark Dodgeball and DJ: 6-8 p.m.



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Spring Cree

Lone Peak Horrorfest brings Heroines of Horror at this year's fest

BY ANNA HUSTED **EBS FILM CRITIC**

Lone Peak Cinema hosts one terrifyingly great festival over one weekend, packed with a year's worth of horror films. Lone Peak Horrorfest begins Friday, Oct. 26, with two secret outdoor showings for anyone who purchases a weekend festival pass and concludes Sunday, Oct. 28, with "Begotten," accompanied by local band Artists of Antiquity.

Now in its third year, Horrorfest will focus on the heroines of horror spotlighting Jamie Lee Curtis' newest film "Halloween." Curtis contributed, and some argue started, the notion of the "final girl," a horror film trope created by film theorist Carol J. Clover in 1992. The "final girl" is key in talking about why the last person alive in horror films is often a woman, and a virgin at that.

Other notable heroines of horror include five British babes in "The Descent," a film not really about cave exploration, but about exploration of one's deepest dark desires. Then check out a woman long a part of the horror establishment, Elsa Lanchester, in "Bride of Frankenstein," or '90s heroine Christina Ricci in "Casper," both playing Saturday afternoon.

For family friendly showings look for Nicolas Roeg's adaptation of Roald Dahl's classic book "The Witches" starring Angelica Houston in one of her most iconic roles, playing Sunday afternoon. Or see the double feature of the Grinch, who is famous for stealing Christmas, as he takes on Halloween in "Halloween is Grinch Night" followed by one of the best animated films of all time "Monster House," featuring a fantastic redheaded heroine.

If B-level horror is not your thing, take some time to enjoy the foreign film selection featuring French director Alexandre Aja of "The Hills Have Eyes" with his second feature film, "High Tension," about best friends Marie and Alexia who vacation to a farmhouse, which never bodes well for characters in a horror movie. Also playing in the foreign film category is the Japanese film "Machine Girl," about a girl with a machine gun arm seeking revenge for her family.

New this year is the Horrorfest Panel, which will lead audience discussions after showings of "Poltergeist," "Mandy," and "The Descent." "Mandy" was released in September by filmmaker Panos Costamos who has not released a film since



Jamie Lee Curtis returns as Laurie Strode in "Halloween," 40 years after she first faced Michael Myers. PHOTO COURTESY OF UNIVERSAL STUDIOS

his 2010 debut film "Beyond the Black Rainbow." Anyone who has not seen "Poltergeist" since its release in June 1982 should revisit the family suburban haunting for its relevance in today's world where we carry computers and television screens in our pockets.

Sunday evening's primetime spot is filled by yet another leading lady of exorcisms and thrills, Toni Collette, in "Hereditary," which saw short play in Bozeman, but deserves a bit more attention, as it will no doubt go down as one of the best horror films of all time.

Horror films are not to be feared despite their reputation, and are often the best speakers of the times we live in, so pay attention to what this year's films might be saying to you.

Anna Husted has a master's in film studies from New York University. In Big Sky she can be found at the movies at Lone Peak Cinema or hiking up a mountain. When not gazing at the silver screen or watching her new favorite TV show, she's running, fishing or roughhousing with her cat, Indiana Jones.



High School thespians fundraise for spring musical

'Stage Fright Night' slated for Oct. 28

EBS STAFF

The Lone Peak High School Thespians Club is hosting a fundraising event on Sunday, Oct. 28 at the Warren Miller Performing Arts Center. Proceeds will support the production of the company's spring musical.

The event, called "Stage Fright Night," will have an afternoon session for children 8 years old and younger that begins at 3:30 p.m.; and a slightly scarier, evening option for kids 9 and up, that begins at 5:30 p.m. Both will include a Halloween theatrical performance, a costume fashion catwalk for all, plus dinner, games and spooky activities.

A spaghetti supper will be served following the show for the younger age group, and before the show and activities for the older children.

A donation of \$20 for the afternoon event includes dinners, shows and activities for one child 8 and under and one adult guardian. A donation of \$15 for the evening event includes dinner, shows and activities for one student age 9 or older.

Visit warrenmillerpac.org for more information.

Arts Council presents Montana Poet Laureate Lowell Jaeger

Poet leads free workshop, gives reading

ARTS COUNCIL OF BIG SKY

As part of the Arts Council's education and outreach efforts, Montana Poet Laureate Lowell Jaeger will lead a poetry workshop on Thursday, Oct. 25 from 6-8 p.m. at the Big Sky Water and Sewer District building; and read from his work at 6:30 p.m. on Friday, Oct. 26, at the Warren Miller Performing Arts Center. Both events are free and open to the public, but registration is required for the workshop.

For the workshop, which is open to high school age students and beyond, participants are asked to bring one original poem. "Everyone can sing, everyone can dance, everyone can paint, and everyone can write poems," Jaeger says. "Poetry, like any art, is a mode of human expression. Sure, some of us are more accomplished than others, but all of us have a right to give it a go. I love best of all to witness writers in my workshops surprising themselves."



Montana Poet Laureate Lowell Jaeger will lead a free poetry workshop on Oct. 25, and read from his work on Oct. 26 in Big Sky. PHOTO COURTESY OF THE ARTS COUNCIL OF BIG SKY

No advance tickets are required for the community reading. At Jaeger's readings, expect humor, serious reflection, and to examine the human condition in all of its marvelous complexity. The poet enjoys interacting with audiences, and sharing the stage with other Montana poets. In between reading from his own work, he enjoys reciting the poems of Robert Frost, Donald Hall and Richard Wilbur, to name a few.

Jaeger is the Montana Poet Laureate from 2017 to 2019. In addition to a deep commitment to arts organizations and initiatives across Montana and the nation, he has authored six books of poems, and has been published extensively. He currently serves as editor of Many Voices Press and has been an educator for more than 30 years at Flathead Valley Community College.

Call (406) 995-2742 to register for the poetry workshop or visit bigskyarts.org for more information.

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ARTS & ENTERTAINMENT



'Leave No Trace'

BY ANNA HUSTED EBS FILM CRITIC

"Leave No Trace" is not an easy film to process. It is a beautiful film with long shots of Eagle Fern Park in Portland, Oregon, and close-ups of trees, wildlife and the talented young actress Thomasin McKenzie. But it is a story of a father who does not know how to take care of his daughter anymore, and a daughter who must choose how to care for her dad.

We meet Tom (McKenzie) and her dad (Ben Foster) in their home in the woods where they cook breakfast, tend to their garden, and practice hiding drills in case they are ever found camping illegally in the park.

Tom's dad, whose name is only mentioned once in the film, has post-traumatic stress disorder from an undisclosed conflict. He wakes with nightmares in their tent and covers his head anytime a helicopter flies over. He deals with his PTSD through backwoods survival. When a trail runner finds them and father and daughter are split up by social services; young Tom realizes there are more choices in the world than which mushroom is safe to eat.

Director Debra Granik paints this coming-of-age story with green and blue hues that express the growth of her young protagonist, a transformation that requires socialization with people her age and a community that understands her situation.

Years after her successful debut feature film, "Winter's Bone," Granik delivers another powerful feminine film in "Leave No Trace." The simple girlishness of wanting a seahorse necklace found on the trail is akin to the kind gesture of the main character in "Winter's Bone" teaching her siblings to shoot and cook squirrels. But the feminine touch is subliminal because it is masked by masculine modes of survival practiced by the girls in both films.

The supporting cast of "Leave No Trace" also reinforces the theme of the masculine energy overpowering the feminine energy. We see this in the wellmeaning, but misunderstanding social worker (Dana Millican) and the trailer park mother figure (Dale Dickey). Both women project a tough, masculine exterior, but desire to express their emotions to Tom in her time of need. They never quite do beyond simple gestures of providing her with clean sheets and gifts of horse figurines.

"Leave No Trace" only skims the surface of the consequences of war and PTSD, which bothered me at first because it is such a catalyst in this film. But "Leave No Trace" is truly about a daughter coming to terms with how to live a healthier life even if that means living without her dad.

"Leave No Trace" says so much about the human condition of loss and struggle with little dialogue and a lot of heart. Be prepared to be moved and awakened by this poignant, thoughtful film.

"Leave No Trace" is now available on DVD through the Bozeman Public Library or for rent or purchase on Amazon Prime and iTunes.

Anna Husted has a master's in film studies from New York University. In Big Sky she can be found at the movies at Lone Peak Cinema or hiking up a mountain. When not gazing at the silver screen or watching her new favorite TV show, she's running, fishing



Big Sky Fire Department Halloween Event Cancellation

Big Sky Fire Department is excited to be working on remodeling projects at both fire stations which will help improve our ability to provide services to the community.

Unfortunately, with the construction work currently taking place we will not be able to host the annual Halloween event this year.

We wish you a safe and happy Halloween!

Big Sky Fire Department



or roughhousing with her cat, Indiana Jones.



By the director of "Winter's Bone," "Leave No Trace" is powerful film about a daughter coming to terms with how to live a healthier life even if that means living without her dad. PHOTO COURTESY OF BLEECKER STREET MEDIA

26 - 28th Street Dance, Horror Film Festival, Haunted Stroll, Pumpkin King & Queen Carving Comp. & More Family Fun)

OCT 30th
9:30 -Monthly Open House at 33 Lone Peak Drive,
#204 (Meet with the Town Center team to
share ideas and discuss how we can better
support you)

Find more of the Big Sky Life @BigSkyTownCenter

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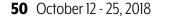
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ARTS & ENTERTAINMENT



Between the Shelves

BY AMY HUNTER ASSISTANT COMMUNITY LIBRARIAN

My worlds are colliding a little this week. In school, the students are learning about nonverbal communication and I am reminded of a professor that I once worked with who spoke of intercultural communication and how nonverbal gestures that might be acceptable in America might not be appropriate in other places. The professor told a story about meeting with a friend of his in the Middle East and sitting with his foot across his knee while they were speaking. Finally the professor's friend asked him why he was so upset. The professor was confused until his friend told him that it was an insult in his country to show the sole of one's foot and the only reason one would do so if he or she were upset.

In the library, October is National Diversity Awareness Month. There are so many different people, cultures, languages and perspectives that we can be exposed to through books. We can learn about the experience of South African apartheid through Trevor Noah's book, "Born a Crime: Stories from a South African Childhood." We can read about one woman's struggle with her identity and the religious beliefs of her family, her experience as a refugee, and her new home in "Infidel: My Life" by Ayaan Hirsi Ali. We can gain perspective in a novel about a Chilean woman moving to California during the Gold Rush in Isabel Allende's "Daughter of Fortune." The library is full of books that provide new perspectives and experiences for every kind of reader.





Traditional and Contemporary Western Art



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EVENTS CALENDAR

FRIDAY, OCTOBER 12 – THURSDAY, OCTOBER 25

If your event falls between Oct. 26 and Nov. 8, please submit it by Oct. 17 by emailing media@outlaw.partners.

BIG SKY

FRIDAY, OCTOBER 12 Locals Lowdown: Live music Rainbow Ranch Lodge, 5 p.m.

Horn and Cantle Saloon Pete Manka, 7 p.m.

Trivia Night Lone Peak Cinema, 8 p.m.

SATURDAY, OCTOBER 13 Community Fitness Class Headwaters Fitness, 8 a.m.

Horn and Cantle Saloon Amanda Stewart, 7 p.m.

SUNDAY, OCTOBER 14 Live Music Compass Café, 11 a.m.

Lone Mountain Ranch/Horn and Cantle Closed for offseason

MONDAY, OCTOBER 15 Industry Night Lotus Pad, all evening

Quaker Meeting Big Sky Chapel, 5 p.m.

Spiritual Art Group Cedar Creek Apartments, 6 p.m. Text (540) 384-0007 to RSVP

TUESDAY, OCTOBER 16

Top Shelf Toastmasters Town Center Sales Office, 12 p.m.

\$10 night Lotus Pad, all evening

Bingo Riverhouse Grill, 6:15 p.m.

WEDNESDAY, OCTOBER 17 Rotary Club of Big Sky Meeting Buck's T-4 Lodge, 5:30 p.m.

Caregivers Support Group Santosha Wellness Center, 7 p.m. third Wednesday

THURSDAY, OCTOBER 18 Bridge Big Sky Water and Sewer

Al-Anon Meeting Big Sky Chapel, 4 p.m.

A.A. Meeting Big Sky Chapel, 8 p.m.

FRIDAY, OCTOBER 19 Locals Lowdown: Live music Rainbow Ranch Lodge, 5 p.m.

Trivia Night Lone Peak Cinema, 8 p.m.

SATURDAY, OCTOBER 20 Community Fitness Class Headwaters Fitness, 8 a.m.

SUNDAY, OCTOBER 21 Live Music Compass Café, 11 a.m.

MONDAY, OCTOBER 22 Industry Night Lotus Pad, all evening

Spiritual Art Group Cedar Creek Apartments, 6 p.m. Text (540) 384-0007 to RSVP

TUESDAY, OCTOBER 23

Top Shelf Toastmasters Town Center Sales Office, 12 p.m.

\$10 night Lotus Pad, all evening

Bingo Riverhouse Grill, 6:15 p.m.

WEDNESDAY, OCTOBER 24 Rotary Club of Big Sky Meeting Buck's T-4 Lodge, 5:30 p.m.

THURSDAY, OCTOBER 25 Bridge Big Sky Water and Sewer District, 10:30 a.m.

Al-Anon Meeting Big Sky Chapel, 4 p.m.

A.A. Meeting Big Sky Chapel, 8 p.m.

BOZEMAN

FRIDAY, OCTOBER 12 Bowl for kids' sake Bozeman Bowl, 4 p.m.

Bozeman Maze 1340 E. Valley Center Road, 5 p.m.

MSU Homecoming Pep Rally Downtown Bozeman, 5 p.m.

"Pirates of Penzance" Willson Auditorium, 7 p.m.

Stage reading of "Actually" by Anna Ziegler MSU Black Box Theater, 7:30 p.m.

"Life of Galileo" by Bertolt Brecht Museum of the Rockies, 7:30 p.m.

"My Big Fat Greek Wedding" The Ellen Theatre, 7:30 p.m.

Jamie Lin Wilson Live From the Divide, 8 p.m.

Pinky and the Floyd The Rialto, 9 p.m.

SATURDAY, OCTOBER 13 Bozeman Maze

1340 E. Valley Center Road, 10 a.m. International Archaeology Day Free day at Gallatin Museum, 11 a.m.

MSU Football vs. Idaho Bobcat Stadium, 2 p.m.

Family Promise's Cardboard Box City Bogert Park Pavilion, 4:30 p.m.

Ukulele master James Hill The Ellen Theatre, 7:30 p.m.

Thriftworks The Rialto, 8:30 p.m.

Staged reading of "Actually" by Anna Ziegler MSU Black Box Theatre, 7:30 p.m.

"Life of Galileo" by Bertolt Brecht Museum of the Rockies, 7:30 p.m.

SUNDAY, OCTOBER 14 Bozeman Maze 1340 E. Valley Center Road, 12 p.m.

Hyalite Canyon Fall Clean Up Day Hyalite Canyon Day Use Area, 12:30 p.m.

Learn to Skate Haynes Pavilion, 12:30 p.m. MAP Brewing Company, 6 p.m. 10 a.m.

King Ropes Bozeman Hot Springs, 7 p.m.

"Pirates of Penzance" Willson Auditorium, 7 p.m.

J.W. Teller

An Evening with the Ahn Trio The Rialto, 7 p.m.

TUESDAY, OCTOBER 16 Pigeons Playing Ping Pong The Rialto, 7:30 p.m.

Light Box Comedy Series The Rialto, 8 p.m.

WEDNESDAY, OCTOBER 17

Vinyl Vortex MAP Brewing Company, 4 p.m.

Pray for Snow Tour Brian Stumpf Outlaw Brewing, 6 p.m.

Pickin' in the Parks Story Mansion, 6:30 p.m.

Bozeman Maze 1340 E. Valley Center Road, 7 p.m.

"Life Interrupted," screening The Ellen Theatre, 7 p.m.

THURSDAY, OCTOBER 18 Bozeman Maze 1340 E. Valley Center Road, 12 p.m.

Red Glow Buffalo Bozeman Hot Springs, 7 p.m.

FRIDAY, OCTOBER 19 Bozeman Maze 1340 E. Valley Center Road, 12 p.m.

The Last Revel with Danny Barnes The Filling Station, 8 p.m.

SATURDAY, OCTOBER 20 Bozeman Maze 1340 E. Valley Center Road, 10 a.m. Bozeman Made Fair MSU Brick Breeden Fieldhouse,

Big Sky Resort's Pray for Snow Party, fundraiser The Rialto, 7 p.m.

Warren Miller's Face of Winter, film Ellen Theater, 8 p.m.

Youngblood Brass Band The Filling Station, 9 p.m.

SUNDAY, OCTOBER 21 Bozeman Maze 1340 E. Valley Center Road, 12 p.m.

Warren Miller's Face of Winter, film Ellen Theater, 6 and 9 p.m.

Sundae & Mr. Goessl: A Night Of Vintage Jazz Bozeman Hot Springs, 7 p.m.

MONDAY, OCTOBER 22 Improv on the Verge Verge Theater, 7 p.m.

TUESDAY, OCTOBER 23

An Evening of Conversation & Conversation wwith journalist **Todd Wilkinson** Museum of the Rockies, 6 p.m.

Life Drawing The Emerson Center for Arts & Culture, 6 p.m.

WEDNESDAY, OCTOBER 24 Vinyl Vortex MAP Brewing Company, 4 p.m.

Journey from the Center of the Sun Lecture with Dr. Loren Action Museum of the Rockies, 7 p.m.

THURSDAY, OCTOBER 25 Jacob Rountree Bozeman Hot Springs, 7 p.m.

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TRAPPER'S CABIN RANCH, BIG SKY

\$15,000,000 | #321234

A complete forest inholding, 640± acres a truly exceptional recreational retreat property, south of Big Sky, multiple log cabins, barn, corrals, trails, fenced pastures and established infrastructure. Live water, privately held since the 1940's.



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Groups from across the country have spent countless hours fishing, floating, shooting sporting clays, and trap as well as upland and waterfowl bird hunting at this sporting ranch. There is guest homes and stocked fishing ponds on this 337± acre ranch.



CRAZY MOUNTAIN ALPINE RANCH, LIVINGSTON

\$10,750,000 | #220737

 $4,526\pm$ acre spectacular recreational ranch, two cabins, live water, exceedingly private within an hour of the Bozeman airport. Alpine meadows, springs, small streams, mature forest canopy excellent wildlife habitat.



HAMILTON RANCH, BELGRADE

\$1,595,000 | #324492 or \$1,195,000 | #324491 Hamilton Ranch is a 583± acre gated sporting property with 12 individual home sites located within the preserve. Underground power, all-season gravel roads and spectacular home sites help create one of the Valley's premier properties.







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Big Sky Mountain Village's premier hotel, with the best location in the Mountain Village. Ski-in-ski-out, located in the heart of the action. This west facing condo has impressive views of Lone Mountain.

LOT 15A BEAVER CREEK WEST

\$530,000 | #324111

A beautiful west-facing $20\pm$ acre parcel in Beaver Creek West. This is a property that is relatively level over most of the $20\pm$ acres providing a variety of sites where a home could be sited. Adjacent lots are also available.



TIMBERLOFT DRIVE LOT 22A

\$425,000 | #206527

Outstanding forested parcel with views of Lone Mountain. Large sunny grassy meadows with forested building site very private! Additional acreage available up to 120± more acres. End of the road privacy!



LOT 15B BEAVER CREEK WEST

\$399,000 | #324556

This west-facing lot is 14.21± acres and is largely level with great access onto the Beaver Creek West Road. Numerous build sites to locate your new home. There are other adjacent lots available.

TIMBERLOFT DRIVE LOT 22B

\$475,000 | #206525

Outstanding forested parcel with views of Lone Mountain. Large sunny grassy meadows with forested building site very private! Additional acreage available up to 120± more acres. End of the road privacy!



STILLWATER CONDO

\$385,000 | #326055

Bright and sunny 2 bd/2 ba condo over looking a small stream in Big Sky's Mountain Village. Close and convenient to dining, and skier services. Convenient parking and public transportation.

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