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Frank Calandra, Jr.
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You can now buy your tickets online for the 32nd Annual National Mining Hall of Fame Induction Banquet.
Individual tickets $250 each.
See page 6 for sponsorship opportunities!
The High Grade

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T Shirts for Him, Her, and the Kiddos!

New jewelry line of necklaces, bracelets & earrings. All under $20!

Inductees and Prazen Award Winner

Continued on page 6
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To be eligible for these slices, you must purchase a raffle ticket. With 1,000 slices available, the chances of winning are high! Please bring cash for book purchases, lunch donations, and raffle ticket purchases as the site is not equipped to process credit cards.

Welcome Becky Wilde and Jan Gohl! The NMHFM has two new volunteer museum ambassadors! They are situated on the 3rd floor near the model train diorama, to help people find their way, and will answer questions about the museum and Leadville.

Sammi McMahon recently relocated to Leadville from LaCrosse, Wisconsin. Her two passions are history and dogs! She will be seen often at the admissions desk or in our gift shop.

Teresa Frederick, formerly of Joshua Tree, California will be dividing her time between the museum and the Matchless Mine.

Joan Veilleux recently relocated from New England and will be spending time at both the museum and the Matchless Mine. Joan is also a story teller and looks forward to meeting you at Matchless After Dark on July 13th. See our events calendar or website for more information.

Wyatt Gipson graduated high school in May and joined us for her 3rd summer! In August she is off to Colorado Mesa University to study nursing.

National Mining Hall of Fame & Museum

The High Grade

Boom Days, August 3, 2019

Watch for us in the Boom Days parade and see our contribution to this year’s theme “70 Years of Hustlin’ Ass” (referring to the burro races).

Join us from 3:00 pm - 5:00 pm outside the museum for free gold panning and other rockin’ activities inside.

Boom Days Family Special - kids free with paying adult. Members always free.

Raffle tickets will be sold for 3 slices of the headframe from the historic Matchless Mine. Numbered slices from the Matchless Mine No. 6 Shaft headframe restoration in 2017 will be offered by raffle. Beautifully cut by woodworker Ron Bosanko and engraved by artist Peter Frykholm, Funds raised from these limited edition slices will help the Matchless Mine structures continue to stand tall for another 100+ years.

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Faces of Summer

Cont. from pg. 1.
Deann Skala Receives Leadville Miner Award

DeAnn Skala believed a wine tasting would be a good way to promote the National Mining Hall of Fame and Museum (NMHFM) and was instrumental in getting it off the ground. In 1999, she offered her services as a volunteer for the museum and utilized her knowledge of the liquor industry to make the wine tasting happen. She organized the event, sought out donations from her beverage distributors, and, in the beginning, rounded up guests to bring potluck items to share. Over 20 years, the event’s format has evolved several times to include tours of the museum, dedications to the museum’s important historical and economic role in our community, the NMHFM presented Skala with the Leadville Miner Award. Additionally, Skala received honorary Life Membership status at the museum.

Copper: Mineral of the Future, continued from page 5

So where is all this copper going to come from?
Mining, of course! Copper is 100% recyclable without any effect on its thermal and electric conductivity, and almost one third of copper used over the past decade has come from recycling sources. However, this will not be enough to sustain the amount of copper that we use every year. Current estimates place our global use of copper at 28 million tons per year with that number poised to spike upwards dramatically. Electric car manufacturers have recently expressed concern over the future supply of copper and the fact that the amount of new copper mining projects is at an industry low.

Copper long has been referred to as “man’s first metal.” For over 10,000 years it has been used in everything from jewelry and armor to coins and art, by many cultures around the globe. While copper has played a critical role in human history, it figures to be one of the most important elements of coming centuries. Copper conducts electricity at over twice the rate of aluminum making it ideal for use in energy applications, especially systems designed to create power from solar, hydro, thermal, and wind energy. These renewable energies are creating an unprecedented need for copper and copper mining, not only in the United States, but around the world.

Renewable energy systems require, on average, five times more copper to create the same amount of power as traditional energy systems.

The average wind farm requires about 3.5 tons of copper in its infrastructure in order to have the capacity to produce 1 million watts (or a MW) of energy. Hydroelectric energy production facilities require nearly half a ton of copper per MW, while the average solar panel field requires 5 tons per MW.

Further, our various modes of transportation will all rely on copper as the 21st century progresses. Trains, airplanes, and cars are increasingly relying on copper in many components. High speed electric train locomotives contain 8 tons of copper, and electric powered subways and buses need about 2,500 lbs. of copper per vehicle. Hybrid electric vehicles require an average of 85 lbs. of copper per vehicle, while battery electric vehicles (fully powered by electricity) need 183 lbs. for a single vehicle.

The high grade copper has long played a critical role in traditional energy systems.

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The High Grade

2019 Hall of Fame Inductees, continued from page 3

ing,” truly said it all. Her powerful speeches and knack for theatrics encouraged many to form unions and strike for fair wages and safe working conditions. Known as the “Miner’s Angel” for her advocacy on their behalf, Mother Jones’s activism set the stage for the labor and safety laws we all benefit from today. A champion of the working class, she organized numerous miners’ strikes against low pay, 12-hour days, 7-day work weeks, extreme mortality rates, and child labor, and railed against the servitude of company stores and company housing. When she began organizing for the United Mine Workers Union in the 1890s, it had 10,000 members; within a few years, 300,000 men had joined.

2019 Prazen Living Legend of Mining Award

The American Exploration & Mining Association

In recognition of a sustained commitment to increasing the public’s understanding about the importance of mining in our daily lives, The American Exploration & Mining Association (AEMA) will receive the Prazen Living Legend of Mining Award. Association initiatives include: The More You Dig campaign, an effort to increase the public’s understanding about the importance of mining, generate accurate public perceptions of mining, and inform the media about the modern mining industry; The Northwest Natural Resources Institute (NNRI) Teachers Workshop, providing teachers with tools to engage students in learning about earth science, especially minerals and metals; educating legislators about the strategic importance of mining to our country, particularly in the areas of manufacturing, renewable energy development, national defense, communications, transportation, and advancements in high technology; and promoting the use of safe, modern, and environmentally friendly and sustainable operating practices of member companies through its Statement of Environmental Principles.

Since 1987, the National Mining Hall of Fame and Museum has been a national monument to the men and women who champion the discovery, development, processing, and protection of our nation’s natural resources, as well as a national institution educating the public about the undeniable relationship of mining to our daily lives. Sponsorships for the upcoming ceremony and banquet are available. Contact Jack Roldan, Sponsorship Coordinator, at Jack@MiningHallOfFame.org to discuss those opportunities. For event details and ticket purchases visit www.MiningHallOfFame.org or contact Francine Webber, Events Manager, at Francine@MiningHallofFame.org. Tickets are now on sale!

Events Calendar

Spring

Sun. June 30
11:00 AM—1:30 PM
A Day with the Tabors
Hoist House Preservation
Fundraiser/Cookout at the
Matchless Mine—No
admission fee, donation to
our Matchless Hoist House
restoration fund is strongly
couraged.

Part of a multi-venue day of events, including the Tabor Home and Tabor Opera House. See our website for details: http://bit.ly/DayWithTabors

Summer

Sat. July 13th
8:00—10:30 PM
Matchless After Dark
Join us at the Mine for
campfire stories, music
and stargazing. Suggested
donation $10 per person
will go to Hoist House fund.

Sat. Aug. 3rd
3:00 PM—5:00 PM
Boom Days Celebration!
Free gold panning outside.

Discounted admission with more activities.

Fall

Sat., Sept 14th
6:00 PM—10:00 PM
32nd Annual National
Mineral Hall of Fame
Induction Banquet
The Grand Hyatt Denver
Denver, Colorado
See website for ticket info

10:00 PM—12:00 AM
Young Professionals
After Party
35 & Younger
Free with ticket purchase


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Feb. 2020
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Spirits in the Shaft
Tickets on sale late 2019!
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Industry experts expect the copper deficit to be felt, globally, as early as 2021; only future copper mining will allow us to pursue renewable energy technologies. Copper mining is just as vital today and tomorrow, as it was thousands of years ago.

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In 2018, Skala decided it was time to pass the torch and retired from this volunteer role through which she so passionately advocated for the museum. In recognition of her dedication, leadership, & service to the museum’s important historic and economic role in our community, the NMHM presented Skala with the Leadville Miner Award. Additionally, Skala received honorary Life Membership status at the museum.

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Volunteer Museum Ambassador, Becky Wilde (left) and Jan Gohl (right).

Both have recently relocated to Leadville; Becky from Denver and Jan from Illinois. Thank you ladies for joining our team and helping to bring the exhibits to life for our guests!

TheNMHFM also welcomes three new faces and one returning one, who are joining us for the summer as Visitor Services Representatives at the Museum and the Matchless Mine.

Curator Myles Gallagher will write the explanatory text in English. A native speaker will translate the text into Spanish. The graphic artist will design the panels, integrate the text, and print out drafts of the panels. Focus groups will review the text and graphics and provide feedback for the final product. Metal brackets for the panels will then be mounted onto the metal railings of the balcony. The brackets are designed so that the panels can be removed and stored protectively inside during the winter, when the balcony is closed to the public.

The Lake County Community Fund has provided a grant to pay for one panel and Stray Horse Arts Fund has provided a grant to pay for one panel. A grant application to pay for the third panel is currently under review. Upon funding, the panels could be in place by this September.
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Robert H. Freeman’s pioneering endeavors started a revolution in U.S. underground coal mining and changed the nature of the process forever. Freeman had the foresight to see how the longwall system, developed for European mining conditions, could be adapted to U.S. applications. He recognized that modifications in design and operation could result in significant increases in production, productivity, and safety in the U.S. In the 1950s, Freeman imported mechanized longwall systems into the metallurgical coal seams in southern West Virginia. He led the complete process, including feasibility, acquisition, installation, and operation of mechanized longwall mining equipment in North America. Under Freeman’s leadership, the potential for improved safety and lower cost, compared to room and pillar mining methods, were soon evident.

Robert E. Cannon was a renowned inventor of many products used in the mining industry, the Raise Drill and the Underground Blast Hole Drill being the most notable. In March 1962, when asked for advice on putting out an underground mine fire, Cannon came up with the idea of creating a larger raise hole, thus using the dirt from the hole opening to put out the fire. A few years later, he invented another drill using down-the-hole hammers as the method of drilling a larger diameter blast hole than a top mounted drifter type of drill. Both types of drills are used in virtually every underground hard rock mine in the world. Not only have both pieces of equipment increased production in the mining industry, but the Raise Drill also eliminated one of the most dangerous jobs in mining, the raise driller, saving countless lives over the years.

Mary Harris “Mother” Jones is one of the most famous labor activists in the cause of economic justice. Her battle cry, “Pray for the dead and fight like hell for the liv-

Continued on page 6
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*A federally chartered non-profit, located in the famous 1880s silver boomtown of Leadville, Colorado at the top of the Rocky Mountains, the National Mining Hall of Fame and Museum is a monument to the memory of the men and women who pioneered the discovery, development, processing of our nation’s natural resources.*

Known as the “Smithsonian of the Rockies” and the “Premier Showcase of American Mining,” the National Mining Hall of Fame and Museum was established in 1987. Our museum houses 25,000 square feet of interactive and informative exhibits showcasing our collection of mining’s colorful past, present, and future. Come in and discover why mining matters to you!

**NMHFM Focusing Our Point of View**

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Continued on Page 9