The Experimental Mine classroom at the Missouri University of Science and Technology (MS&T) becomes a Haunted Mine with lots of scary surprises in its dark passages for hundreds of Halloween visitors. "The best part is seeing these big guys who don't think they'll get scared come running full-speed out of the mine," says Barbara Robertson with a smile.

Robertson, longtime administrative assistant in the mining engineering department at MS&T, has been involved with the Haunted Mine project since it began more than 16 years ago. The annual student project is a lot of work, she says, but also a lot of fun.

"Every year the special effects team comes up with something new," says Barbara. "One year they created a platform that people were convinced took them stories down into the mine."

Robertson has only missed one Haunted Mine weekend (to attend a wedding). She sells tickets from a little structure students built for her years ago, after watching her hold an umbrella over her head in the rain.

"The students take good care of me," she says. "We're like a family in this department."

(cont. on page 2)
Before the Haunted Mine was created in 1997, fundraising efforts by mining engineering students at MS&T weren't very successful. "Most of their fundraisers brought in less than $20," says Robertson. "Some people didn't think the Haunted Mine would work, but it raised more than $2,700 that first year," she says. "Paul Worsey (professor of mining engineering) always supported the idea though. He knew people would come."

Initially, the only student organization involved in the event was the Society for Mining, Metallurgy and Exploration (SME). In 2000, Women in Mining, the International Society for Explosives Engineers, and the National Stone, Sand and Gravel Association joined the effort.

"One year the students raised more than $15,000," says Robertson. She says all of the proceeds go to the student groups. The funds are divided among them based on the number of hours their members work on the event. The money is primarily used to fund student attendance to conferences.

"In the past, only four or five students could attend an SME conference," she says. "That year 37 students got to go and the most that any of them had to pay was $75."

Watch the video: http://www.youtube.com/watch?feature=player_embedded&v=Bbfo69xyWkw

Download templates for MS&T jack o' lanterns, including one featuring mascot Joe Miner

Editor's Note: Original Story by Linda Fulps was featured on MS&T Website Video by Terry Barner
FROM THE PRESIDENT
Stephen Tibbals

The months leading up to Christmas are always a busy time for everyone. It is very easy to get distracted and forget what is important. For me at least, this year was no exception. With the demands placed on us by our jobs and families it is hard to make time for the things that make our lives worthwhile. The time we take to help our fellow man and our communities is an important part of the holidays and can’t be forgotten.

I have been asked how I make time for all the organizations I belong to, especially around the holidays and I generally have the same answer. The calendar I keep on my computer and phone help me stay organized and where I am supposed to be. That is factual but not the real essence of volunteerism. It isn’t our calendars that keep us organized but the desire to help and make our world a better place.

It is the same with all of the WIM members I deal with. It is heartening to see people take their precious time during the holidays to attend a meeting, help with a fundraiser for scholarships or teach school children how to make toothpaste. I want to congratulate all of the WIM members on the time and energy you put into the organization. It is truly heartening to work with the fine group of people that belong to WIM.

Our message on how important mining is to America is more important now than it ever was. We need to look for every opportunity to wave our flag and teach the adults and children in our communities how important mining is to maintaining our quality of life and our country strong. Keep up the good work and I hope you all enjoyed the holidays!
“ARE YOU AN ACTIVE MEMBER?”

Are you an active member,
The kind that would be missed?  
Or are you just contented
That your name is on the list?

Do you attend the meeting
And mingle with the flock?
Or do you stay away from them
And criticize and knock?

Do you take an active part
To help the work along?
Or are you satisfied to be
The kind who just belongs?

Do you ever work on committees
To see there is no trick?
Or leave the work to just a few
And talk about a clique?

So come to meetings often
And help with hand and heart.
Don’t be just a member
But take an active part.

Think this over, now
Because you know right from wrong,
Are you an active member
Or do you just BELONG?

Reprinted from an early 90’s Women In Mining National Quarterly
Featured In the Kentuckianio (KO) Chapter News
“Busy” pretty much sums up how the third quarter of this year has been for many of the Directors.

MINExpo 2012 was huge this year, all three buildings of the Las Vegas Convention Center as well as parking areas all around it were filled with exhibits and people with over 50,000 attending. Our booth was in the same area as some of the Universities as well as the National Mining Hall of Fame and Museum. Unfortunately we were somewhat hidden, so we did not receive the traffic we had anticipated. It was a good opportunity to talk to many of the students whose booths were nearby and encourage some to look into forming a WIM Student Chapter. Contacts from two of the schools were forwarded to our National Membership Committee for follow-up work.

Those who donated time were: Rhonda Wright, Patti Deer, Dinah Shumway and Denise Talvitie from CA; Jackie Dorr and Resa Fury from Denver; Georgene Robertson, an At-large member; Russell Jones, Kyle Louk, Nolan Eckrode and Garrett Ripa of the VT Student Chapter; Arloa Woolford, Scotty Norman, Steve Tibbals and Megan Tibbals from Nevada Chapter; Katie Gardner and Jordan Sheraka from the UK Chapter as well as Debbie Mudd who works with Georgene on the CEDAR program, Lara Sims from California who is interested in joining, and a couple of spouses of Nevada members, Sheree Tibbals and Del Norman. I hope I did not forget to mention anyone. If I did, I apologize.

(Please see more pictures on page 15)

The Foundation greatly appreciated all the volunteers from various Chapters to help staff the booth during the three days. They all did a great job in explaining why they are members of WIM, especially our male members, who responded that they believed in the educational efforts of the organization.
EF Report (cont. from page 5)

While we were in Las Vegas, we had arranged a tour of the McCaw School of Mines in Henderson that both the Foundation and WIM Nevada Chapter support. It had been 4 years since my last visit to the school and I was totally blown away by what they have accomplished in that short amount of time. Check out more pictures on page 15 and remember - this is all on an elementary school’s grounds and the “Mighty Miners” are students who are normally the tour guides.

Scotty and Del Norman and I drove to Spokane in October for the Silver Summit and our Silent Auction. Again many companies donated awesome items and, with Jann Higdem and Audra Fredrickson helping, it was a great success. A couple of the donated items were auctioned live during the Silver Baron’s Banquet and that generated a lot of interest after the banquet ended and before we closed the bidding. A unique item was donated this year - an authenticated, signed and dated card by Orville Wright with the date of 15 November 1945. As in the past couple of years, the highest bids were for the beautiful silver items and jewelry with the highest bid a silver-plated-over-copper “Moon Bowl” (pictured at top right) donated by Endeavour Silver of Vancouver, BC. The bowl had a beautiful design etched into it and each year this company manages to find an eye-catcher for our auction. The Education Foundation feels privileged to be invited to conduct our Silent Auction at the Silver Summit and each year we are awed by the items the companies attending donate. We have made many wonderful friends at this event and certainly enjoy our time in Spokane. We also received another generous donation from the Nevada Landmen’s Association.

(cont. on page 14)
California Chapter Report  
By Betty Peters

**WIM California Awards Four $1,000 College Scholarships**
When you spend a good portion of your life consumed with the issues related to mining, it is pretty hard not to want to encourage the younger generation to consider stepping into a career in the mining industry. Even while conducting mineral education classes with third and fourth graders, we have a tendency to “plant the seed” of available opportunities for employment into the minds of kids who love rocks! As I start a class I find myself asking them “How many of you collect rocks?” With most hands raised I respond with a quick smile and a slap on my hard hat, and then I proudly declare, “Then you are already a miner!”

WOMEN IN MINING Members are so proud of the mining industry and several years ago California Chapter members were asking what we were doing to prompt more interest and motivate high school seniors to move toward this amazing industry. College scholarships were suggested and procedures were developed. Soon we announced that we were seeking scholarship applicants who possess a commitment to obtain an education leading to a degree through a course of study related to mining, geology or environmental studies.

This year we had 43 applicants and the Scholarship Committee, made up of Julia Lakes-Martinez, Kim Critchfield, and Christine Granquist, awarded four $1,000 scholarships. Students who met the identified requirements will be attending Yale, California State University, San Diego State University and the University of California in Irvine. They will major in Engineering, Geology, and Environmental Engineering. We will follow the progress of the students and look forward to hearing of their successful mining careers in the future.

**WIM California at the Big Bear Discovery Center**
In September we had the pleasure of driving by Big Bear Lake as we made our way to the Discovery Center. The Big Bear Discovery Center is an educational and informational portal to the San Bernardino National Forest and is located within the heart of the Big Bear Valley. Their goal is to heighten everyone’s awareness on how to become a more responsible caretaker of a National Forest. Prior to WIM holding their normal business meeting, members climbed on an all terrain Pinzgauer vehicle and enjoyed a tour of the canyons, meadows, streams, and old gold mining camps. We had a great time.

(continues on page 8)
Students Love to Make Toothpaste
On October 11th, three California Chapter WIM Members met in Palmdale California at Esperanza Elementary School. Lois Papner, Carol Papner and Cyndy Mandell gave the presentation to 32 of Ms. Heather Hanson’s third grade students. For many students it is an eye-opener when they realize what it takes to produce a product as important as toothpaste. It is inspiring to hear their comments as they take the cup of calcium carbonate and another cup of baking soda and mix it up. The discussion moves on to what we need to do to make toothpaste more appealing so people would buy it. Perhaps adding flavor extracts (a couple drops) helps, but not a lot. Kids normally ask about making it sweeter and we talk about why we wouldn’t use sugar in toothpaste, and have them add the packets of artificial sweetener to the toothpaste. The value of minerals is soon recognized by young students.

252 Miles Away From Most WIMers, Treena Leonard is Teaching!
It is amazing that WIM California could be so effective that individuals like Treena Leonard, living over 250 miles from other members, would move forward with teaching without WIM member support. Treena Leonard works for CalPortland in Santa Maria, California. Treena and a co-worker Ben Marsalek, Aggregate Operations Manager, went to St. Patrick Catholic School in Arroyo Grande and taught students by making Asphalt Cookies. The objectives were (1) students are introduced to basic engineering principles, road construction and material science through this engaging activity. (2) Students model asphalt pavement production (a specialty in civil engineering) by making no-bake cookies using cocoa, oats, walnuts and coconut. And (3) students learn how material properties and strength can be affected by temperature and mixing materials. Good job Treena!

Treena Leonard and Ben Marsalek teaching the importance of aggregates

(cont. on page 13)
Nevada Chapter Report
by Ginger Peppard

As many of you know, during the last week of September, Las Vegas, NV was host to the world’s largest mining exposition. MINExpo 2012 drew in over 50,000 people from 36 different countries. This exposition takes place every four years and attendance far exceeded the 2008 MINExpo (with 38,000 in attendance that year). Among the 1800+ exhibitors was the Women In Mining Education Foundation. Four of the Nevada Chapter members (Arloa Woolford, Steve Tibbals, Megan Tibbals and Scotty Swanson-Norman) were able to help staff the booth during the event, along with a few spouses (Del Norman and Sheree Tibbals). In addition, WIM members, spouses and guests were able to tour the McCaw School of Mines in Henderson, NV during their trip to Las Vegas. Steve Tibbals is actively involved with the McCaw School of Mines so this was a great opportunity for some of our members to see what he’s always talking about!

If you are interested in finding out more about the McCaw School of Mines, you can visit their website at www.mccawschoolofmines.org.

It was a pretty quiet Third Quarter for the Nevada Chapter of Women In Mining. Our October meeting was canceled because some of our officers were unable to attend; thus we could not guarantee a quorum and decided to delay the meeting until December. On December 10, seven of our members gathered in Battle Mountain, NV for a lunch meeting. The Chapter discussed regular business, financial updates, and continued exploring the potential for a larger-scale fundraising event, potentially a golf tournament/spa weekend. Details are still developing but we will keep all the Chapters up to date when we firm up our plans because it would be a great networking opportunity (on top of raising some money for our scholarship fund!). The Chapter also officially approved the amendments to the National Bylaws. Our next meeting is scheduled for February 13, 2013 to be held in Winnemucca, NV.

(cont. on page 10)
Fundraising Activities
We were busy with quite a few fundraising bars throughout this quarter. In October we provided bar services for the wedding of a local Winnemucca couple. In November we did a multi-day, multi-event hosting bars for the Nevada Cattlemen’s Association 77th Joint Annual Convention & Tradeshow. Then at the end of November/beginning of December we hosted two nights while Barrick’s Turquoise Ridge Mine celebrated at their annual Christmas parties. The Barrick bars were by far our busiest and most profitable bars ever…with the tips from just those two nights, we were able to fund one full scholarship! We even had some money left over and combined it with tips from the other bars, enabling us to fund additional scholarships.

Member Recognition
We’d also like to recognize the achievements of our members for the past quarter:

Scotty Norman, Office Manager/Accountant (MI Swaco) – was recognized by the University of Nevada Cooperative Extension (NCE) for 10 years of service as a Nevada Division of Wildlife certified Hunter Education Instructor in October. She was recognized at a gathering organized by Rod Davis of Lander County NCE that brought together volunteer facilitators and local employees of various companies in the area. County, state and federal agencies and the community at-large was also included in the event as a meet-and-greet for the new Central/Northeast NCE District Director, Ms. Loretta Singletary.
Girl Scout Day at Dinosaur Ridge
On October 13, 2012 members of the Denver Chapter of WIM participated in Girl Scout Day at Dinosaur Ridge. The event was held in conjunction with National Fossil Day and International Astronomy Day. Over 350 Girl Scouts and Troop Leaders/parents attended the event. Dinosaur Ridge is located in Morrison, Colorado and has more than 300 exposed dinosaur footprints from the Cretaceous period. There are also beautiful geologic outcrops and views of historic mining which took place in the area.

The WIM exhibit contained two display cases to educate the Girl Scouts about the use of minerals in everyday products. For example, one case contains a package of M&M’s candy, makeup, sunscreen, baking soda and batteries, among other items. Alongside each item is a specimen of the mineral that is used in it. The white “M” on the candy is made from a mineral called rutile (titanium dioxide). Makeup contains mica and iron oxide. Sunscreen contains zinc; baking soda is made from sodium bicarbonate; and batteries contain copper metal, among other minerals. The girls could not believe all of the different products they use every day, and the minerals they contain.

The girls were also interested in a kit with different types of ore and the minerals that are produced from them (copper, iron, nickel and molybdenum ore were included). The kit also had samples of the processed metal; copper rods, for example. The girls were fascinated to learn that the green colored rock and the metal rod were both the same mineral. The WIM representatives explained that ore is a rock which contains elements or metals that can be extracted through mining.
The National Quarterly

Denver Chapter (cont. from page 11)

Adams County Career Expo
On Tuesday, November 13, 2012 members of WOMEN IN MINING and the Minerals Education Coalition of SME (MEC) met and encouraged 8th graders from Adams County middle schools to consider a career in the minerals industry. [Editor’s Note: the former GEM Committee of SME and the Mineral Information Institute (Mii) have merged together to form the new MEC.] This year there were 5,500 students plus teachers in attendance. Throughout the day, all members of the group were busy with students and teachers talking about what options are available in the industry—choices ranging from driving a truck, to a vo-tech-type career such as welding, to college for an engineering or science specific curriculum. We also took the opportunity to talk up the All About Mining course for teachers sponsored by the Colorado Mining Association Education Foundation. We had a number of very interested students; some even sent thank you letters to our volunteers—Doug McGee, Resa Furey, Amanda Adams, Dick Beach, Alan Cram (in his miner’s diggers), Betty Mahaffey and Karen Jass—who took time to assist with this annual endeavor.

(l-r) Doug McGee, Alan Cram (in his diggers), Resa Furey, Amanda Adams and Dick Beach volunteer at the Minerals Industry Booth

Intense volunteers and enthralled students!

(cont. on page 13)
**Calif Chapter (cont. from page 8)**

**WIM California Celebrates Members’ Accomplishments**

Each year the California Chapter of WIM takes the time to acknowledge the many hours of dedicated effort that our members have given over the past year. This year we met on December 6th in Rancho Cucamonga at The Old Spaghetti Factory.

As we look back over the past year it is my pleasure to express a huge “THANK YOU” to the California Chapter Members as well as to all WIM Members who continue to make WOMEN IN MINING an admired and honorable organization.

**Denver Chapter (cont. from page 12)**

**WIM Denver Enjoys Annual Holiday Tea**

On December 8th members of the Denver Chapter of WIM, old and new friends, and family met to enjoy a Holiday Tea with wonderful food and specialty teas at the Denver Tea Room. This tea room is housed within The Holiday Chalet Victorian Bed and Breakfast in downtown Denver. This building was a residence until WWI, after which it was converted to efficiency apartments. The B&B part of the building now uses these former apartments (2-3 rooms with baths and kitchenettes) to house families with loved ones in the nearly hospitals. The tea room itself is located in what was once the front parlor, replete with stained glass windows and ornate fireplace. Pictured below is the tiered presentation of sandwiches. What isn’t pictured is the Shepard’s Pie (delish!) along with the scones and other sweet treats!
As you all remember, we had a short course scheduled for the West Virginia State Science Teacher’s Conference on 1 November in Martinsburg, WV. I’m sure you all saw pictures of what hurricane “Sandy” did to the East Coast. For awhile, I was not sure if we were going to make it or not as flights were cancelled for days. Ultimately the chair of the conference informed us that they were not cancelling the conference as she felt most of those who registered would have no transportation problems. On the 31st of October, Bonnie Love and I met at the Baltimore airport and drove to Martinsburg. We did see a few downed trees but not near the highways. Georgene Robertson had a difficult drive up as there was snow in much of West Virginia. We experienced a few hitches with the workshop, but had a great group of teachers. Both Bonnie and Georgene led a couple of the activities. We did have a few groans from one table of teachers doing the square-set timbering. They didn’t quite understand that it was to support the walls and roof, but that they had to leave room for “men and equipment” between them for access. Bonnie took some great pictures as you can see. We all returned home safely but tired, and I vowed we would not do any more workshops in the late fall. Two years in a row of weather problems was enough! We still remember the storm that hit during the Hartford, CT, NSTA in October 2011. I escaped, but Jackie was stranded for two days.

Just before the trip to Spokane, my house sold. This has given me a chance to go thru large amounts of WIMEF files and eliminate a lot of hard copies as much of it is either on our website or disks. Still have a lot in storage but I am downsizing big time. I have donated a lot of mineral samples to the Nevada Division of Minerals for their two workshops in Nevada, and some old mining equipment to the McCaw School of Mines. My post office box and cell phone number will remain the same for now.
CALIFORNIA ITEMS FOR SALE
PLEASE CONTACT KARLA BROWN
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kbrown@txi.com

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SHIRTS $15
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Features the WIM logo, but not chapter-specific; great for everyone! Cost is $22 plus shipping. Contact Denver Chapter Sharon Kirts at skirts4@Q.com for colors and sizes.

** Bumper Stickers **
$3 each plus shipping. Contact Denver Chapter Jackie Dorr at dorr@smenet.org.
The next *National Quarterly* will be published **April 1, 2013**

Chapter Reports are due **March 15, 2013**

**Watch for details about the Annual Meeting**
**To Be Hosted by Virginia Tech Student Chapter**

**April Lead Story Assignment:**
Denver Chapter

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WOMEN IN MINING National is a nonprofit 501 [c][6] organization.

WIM is an organization for persons interested in or associated with the mineral resources and mining industry. WIM’s purpose is to educate members concerning all aspects of the industry and to promote public awareness of the importance of minerals in our everyday lives.

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