Girls’ Math Camp Good Forum for Talking Mining

Reno, Nevada – “Six female Newmont employees recently shared their respective success stories with impressionable young women at the University of Nevada, Reno (UNR) Girls’ Math and Technology Camp, held in July at the UNR campus. Newmont is a proud sponsor of the program, which is designed to help girls boost their math and technology competencies, so that they can become more confident and competitive in their personal, academic and occupational pursuits.

“Katie Gardner, an underground mine engineer for Leeville Mine, opened the event’s first day, telling camp attendees about her education, career path and daily use of math and technology. All the Newmont representatives later joined for lunch, sharing similar testimonials about their respective achievements in the mining industry. Thanks to all these ladies for helping further Newmont’s effort to attract more women to our industry.”

Pictured at the UNR Math Camp are WIM NV members Katie Gardner (l) Newmont Leeville Mine, and Megan Tibbals, process superintendent at Newmont’s Gold Quarry Mine.

Article courtesy of Newmont’s North American Nuggets, North America COMMUNITY section.
EDUCATION FOUNDATION REPORT
By Arloa Woolford

This quarter was a period of recuperation for a couple of the Directors and a major job change and move for another one.

For the Foundation it has been somewhat eventful as the re-designed website has been launched. While there are still some updates that need to be completed, the major part of the work has been finalized. Thanks to the web designer Steve Skinner, the web committee and other members who have spent a lot of time and effort to accomplish this. The revolving photo tiles and updated color scheme are major improvements.

Our booth at MINE expo 2016 was productive and we had the opportunity to greet old friends and meet new ones during this exciting event. We were delighted to debut our new booth pop-up displays and, while we were so appreciative of US Borax for donating the previous display, it was becoming more difficult to transport and put together due to age, weight and parts wearing out.

Members from CA, CO, NV, UT, At-Large and former members from AZ and MO volunteered to help staff the booth, and several others who happened to be attending stopped by for an hour or so to offer a break to those already signed up.

December 5-9 will find us in Reno-Sparks, NV for the American Exploration & Mining Association annual conference at the Nugget Casino Resort. If you are planning on attending, please stop by the WIMEF booth to say hello.
FROM THE PRESIDENT
Stephen Tibbals

I’ve been a member of WIM for 25 years now and have done a lot of fund raising and education during that time. I have to admit though, that over the last ten years I have done very little education. Oh, I have acted as a tour guide the annual Marsden House Museum tour for all the fourth graders in Lovelock, Nevada and Winnemucca, Nevada, and I am on the board of directors of the McCaw School of Mines (www.mccawschoolofmines.org) but very little hands on with students.

This year, for the fifth year in a row, WIM Nevada agreed to do an activity at the Tri County Fair for all the younger children, and I volunteered to be the chairman for this function. The fair was looking for a hands-on activity to keep the kids amused and happy. We have always done Pet Rock for our activity, and I have enjoyed helping. Looking for rocks all over Northern Nevada, purchasing an endless supply of eyeballs and glue, as well as helping with the event were all part of the fun. But this year’s event was somewhat out of the ordinary. I couldn’t find a lot of help for the event.

I found one WIM Member (Lisa Baker of Silver Standard Mining Company) as well as one of my wife’s friends who agreed to put in some hours on the project, and I figured that would be good. How much work is helping a few kids make pet rocks? I kind of underestimated the amount of work. The booth was open for 6 hours one Saturday, and I would have sworn it was open for 18 hours. My two helpers came in staggered, so there was an even number of people and things went well, but it was exhausting, as well as really fun! Pictured are a few of the results of the event.

What I was most impressed with is the imagination of the kids and the variety of what they had in their minds to make. The whole event went very well with over 80 kids participating during the 6-hour period. The hardest part was the judging. I found four people that were in the right spot at the right time and persuaded them to help. It was a County Fair so there were enough purple, blue and red ribbons for everyone!

I guess the point is that I felt I was the big winner of the event. I had a great time and the kids were very happy to be there and really enjoyed expressing themselves. WIM was originally founded as a group of mining industry women that wanted to not only educate themselves about the industry they work in, but also to educate the general public about how mining affects their everyday lives. Our children’s activities are a natural extension of that original purpose.

I really felt lucky to work this event, and I would like to encourage everyone in our organization to look for ways to interface with the public on minerals and the mining industry. Ultimately, as members we gain as much as the people we educate. Whether it be working with kids or having forums for the general public on pressing matters that affect our industry, there are a lot of things we can do to help the general public understand their needs for the minerals we produce. And, like so many things in life, it comes back to us in so many interesting ways.
DENVER CHAPTER REPORT

Mining Hall of Fame
Long time WIM supporter Stanley Dempsey was formally inducted into the National Mining Hall of Fame on Sept. 24, 2016. The 29th Annual Induction Banquet and Ceremony was held at Caesars Palace in Las Vegas, NV, during the MINExpo and attended by many WIM members. Stan Dempsey is one of the most multi-faceted individuals in the mining community. As a geologist, lawyer, historian, author, corporate executive, and investment banker he put his skills to use championing collaborative approaches to compliance, environmental assessment, and reclamation planning. Mr. Dempsey has been a supporter of WIM Denver Chapter since its inception in 1972, and was instrumental in establishing the Chapter’s credibility in the early years.

Women in Mining
A look back at the birth and evolution of the Women in Mining group in the US

The above caption was the header in the July 14 online issue of Mining Magazine featuring Resa Furey’s article on the origin and evolution of WIM since its formation in 1972. The article follows the evolution of Denver Chapter into a national organization and concludes with: “The legacy of WIM has helped to grow organizations around the world. Since the first WIM was formed in 1972, organizations for women in mining, each with its own unique areas of focus, have sprung up on every continent except Antarctica.” To read the entire article, please visit http://www.miningmagazine.com/top-articles/women-in-mining/

First WIM Officers:
1st row l-r: Carol Peckham President, rudi Matney Treasurer
Back row l-r: Mary Crum Secretary, Shirley Hunter Vice President
October 11, 1972

(cont. on next page)
**Summer Field Trip – Natural Soda**

On July 15, WIM Denver Chapter members, family and friends drove to Rifle, Colorado for what ended up being a long day to see the in-situ mining operation at Natural Soda LLC, a subsidiary of the Canadian company Enirgi.

Natural Soda produces pure sodium bicarbonate, better known as baking soda, as five different products. From food grade for baking to industrial grade for sand blasting, fire extinguishers and to neutralize gas emissions from power plants – baking soda is a great natural product with lots of diverse uses. Pretty cool!

The “mining” process is very simple, at least in theory. Wells are drilled down to 1800’, through oil shale to the layer of sodium bicarbonate below, then the well is turned to drill horizontally. Hot water is injected at about 2500F, which puts the soda into solution, which is then sucked out through a 2nd well head. From there the pure water and sodium bicarbonate solution is piped to the plant where it is cooled, solidified, blown through a dryer, then separated using a centrifuge to sort by crystal size. This was an excellent tour, and our thanks go out to Natural Soda for the personal attention given to us on the tour.

**Summer Field Trip – Hopemore Mine**

On a beautiful Saturday in the Colorado mountains, Nick Michael and Bob Calder gave Women In Mining a very special tour of the Hopemore Mine and the Leadville Mill as well as an excursion through the history of the Leadville mining district.

The Hopemore Mine is located at an elevation of 11,560’ in the famed Evans Gulch area. We were given a brief history of the area then led to the shaft and cage to drop 600 feet to the tour level of the mine. The underground tour included geology, safety underground, a demonstration of single-jack hand steel drilling as well as the modern jackleg-type of mechanical drill. The temperature underground was about 40° underground, so we were glad we bundled up for the tour.
NEVADA CHAPTER REPORT
by Katie Gardner

This quarter, the Nevada chapter saw several exciting events, including the Pet Rock event at the Humboldt county fair, the Nevada Chapter meeting in Austin, NV, and several WIM members going to a Girls Math and Technology Camp on the University of Nevada, Reno campus.

The Nevada Chapter meeting was held in Austin, NV, at the International Café and Bar. Austin is a historic mining town located on the Loneliest Road in America, Highway 50. Our meeting was held on June 25, and had several people in attendance. The business portion of the meeting was held at the Cafe and Bar, then members had time to explore the gift shops and the museums around the town.

In July, WIM Nevada members Megan Tibbals, President of the Chapter, and Katie Gardner, National Rep, had the opportunity to go to the UNR campus to speak with girls at the annual Northern Nevada Girls Math and Technology camp, organized by Dr. Lynda Wiest. The camp is held annually for girls in Northern Nevada entering 7th and 8th grades, and has become so popular that there is a waiting list! This year, Katie Gardner spoke to 60 girls as the Monday morning guest speaker regarding the use of math and technology in her job. The girls were excellent listeners, coming up with questions that stumped both Katie and Megan regarding mining and minerals!

That afternoon, Megan, Katie and several other women located in Northern Nevada sat with the girls at lunch. There were approximately 8 girls at each table, allowing a more intimate discussion. Again, the girls surprised the speakers with extremely thoughtful questions on topics ranging from drilling and how we find ore to travel in jobs. The experience was excellent, and the group hopes our WIM members will be able to participate again in the future.

This quarter has had several exciting events, and the group looks forward to our bartending fundraising season, which will be starting up soon!
MISSOURI UNIVERSITY OF SCIENCE & TECHNOLOGY
by Paige Cochran

With all new elected officials and several new members, our S&T Student Chapter is coming up with ways to spread the S&T Miners spirit.

Some plans remain the same as the previous years: to hold onto local knowledge. Bringing mineral identification kits into the fourth grade classrooms of local elementary schools we can teach young children and their teachers about geology. We show them how to use all the simple tools in the kit and discuss how this relates to mining. This year, however, we hope to branch out to neighboring areas and inform them of the S&T Miners and our facilities located only minutes away. With every trip we hope to encourage children and teachers alike to visit our mine site and educate themselves about the mining industry.

There is also hope this coming year of working with the Girl Scouts of Eastern Missouri to give their troops each a short lecture, tour, and explosives demonstration at our mine site. There is no need to exclude boys, of course, so we hope to partner with our SME Student Chapter to educate the Boy Scouts of Greater Saint Louis as well. Branching out to the youth in St. Louis opens us to a broad network of counties that continue to grow every year and actively support STEM programs. With this larger network base we can spread further knowledge of engineering degrees, especially mining engineering, and promote positive attributes of mining industry jobs.
IWiM Wants to Know About Your Chapter’s Events!

International Women in Mining (IWiM) is strengthening its outreach globally and is asking Women in Mining (WIM) chapters around the world tell them about upcoming meetings and other events. The goal is to have all of the events up-to-date on the IWiM calendar. See http://internationalwim.org/events/ for a listing of current events.

Why? Imagine you’re traveling to Mongolia (or any other far away place) for mining related business; with this up-to-date calendar, you will be able to reach out to a local WIM group, will be welcomed and can attend one of their events! With this calendar a WIM member from any part of the world can be aware of local WIM events, network and make meaningful contacts. Likewise, the U.S. WIM chapters will be able to welcome women from different regions. The calendar displays not only events organized by women in mining groups worldwide, but also other events that might be of interest. The calendar is updated on a quarterly basis.

Please send your events to Alicia Polo y la Borda at aliciapoloylaborda@internationalwim.org. For more information, feel free to contact Alicia or Resa Furey at resa.furey@mwhglobal.com.

About IWiM: International Women in Mining (IWiM) currently has more than 9,000 members from over 100 countries. The organization connects with and supports more than 45 WIM groups around the world. You can learn more at http://internationalwim.org/
The Start of a New Year

The freshman engineering orientation, hosted by the University of Kentucky, marked the beginning of a new school year for Women in Mining. Our Women in Mining chapter members set-up a booth at this orientation to attract potential members and answer any questions that they may have. The interested members signed their names and emails on a contact list. After orientation, Victoria Karem emailed the old and newly interested members about the goals for the semester and the first meeting date. This first meeting took place on September 8th at 6:30 pm. The topics discussed were the history and purpose of WIM (UK and nationally), volunteer and bonding activities, and ways to fundraise for the WIM national conference.

Additionally, the members of Women in Mining signed up at the SME meeting to be mentors for the incoming freshman. This opportunity for WIM members to be mentors is beneficial to build relationships, help the students become adjusted to college, and encourage involvement around campus and with mining groups, specifically Women in Mining. Furthermore, the Women in Mining members love to be involved in SME activities to further promote involvement in WIM. The members of Women in Mining helped SME set-up and take-down for the UK tailgate last Saturday. This opportunity allowed the members to interact with peers as well as meet people from the mining industry at the tailgate to promote job opportunities and funding.

Lastly, WIM held their first member bonding night Sunday the 11th at one of the member’s houses. The group grilled out and watched movies while getting to know each other. We are planning to volunteer in the near future at the Ronald McDonald House to bond even more. We are very excited for the new members and the activities that are planned such as community service outreach, bonding activities, and visiting a local elementary school to promote students’ interest in the mining industry. We hope to continue to grow as a chapter as well as educate the community about the importance of mining.
Greetings from Texas!

Summers in Texas are hotter than blazes and this one has been no exception. Our outreach activities have slowed down a bit since school is out but we are still keeping busy planning our first fund raiser. We settled on a golf tournament and have picked the course and date. We have our flyers posted and have a few teams signed up. Fingers crossed we can report back we had a successful event!

*June 2016:* Students got up close and personal with quarry equipment and also enjoyed creating their own pet rocks while learning about mining at Martin Marietta Hunter Cement Plant.

Engineers and environmental staff attending the Environmental Module of Talent Development training at CEMEX Knoxville Cement Plant learned about WIM from members of the Texas Chapter and competed in a toothpaste challenge during the community outreach section of event.

Our June meeting was held by conference call.

*July 2016:* Our Golf Committee has been meeting and planning the inaugural tournament. Our July meeting was held by conference call.

*August 2016:* Our Golf Committee was busy planning the golf tournament. Our August meeting was held by conference call.
Colorado Summer Field Trip – cont.

Our next stop was the Leadville Mill at the southwest end of town. This small gravity/flotation mill processed ore until 2004. A redesign for parts of the mill is underway and awaiting the completion of some toll agreements and funding to get into production again.

On our way out of Leadville, a few of us stopped to admire the newly reapplied WIM logo on the Operation Respect sign at the Leadville Chamber of Commerce!

New Discovery Center at Dinosaur Ridge

Friends of Dinosaur Ridge have opened a new attraction, a Discovery Center which shows natural science aspects of the area and has educational material for children (of all ages). The Colorado Mining Exhibit Foundation helped sponsor of this family friendly venue with displays on economic geology of the Front Range. In the fall, the Exhibit Foundation will add a large “Woman in Science” display. WIM monetarily supports the CME Foundation.

Dinner Meeting

September 21. Our monthly dinner meetings with featured speakers resumed (summer months are for field trips). Our guest speaker was Linda Preston, who presented Teacher in Space – Touching the Future. Linda was a high school science teacher for 38 years and has taught all fields of science. She was the Teacher in Space - Utah finalist, is a Tandy Technology Scholar, and has won the Presidential Award in Science, and a recipient of the National Science Teacher of the Year Award.
Typically the summer months have no requests to lead mineral education classes for students as well as conferences for the benefit of teachers. Our Chapter takes advantage of this time to network with our membership and to help educate some of our newer members at a Membership meeting.

On June 16 a meeting was held at Mining Supply and Rock Shop purchased by WIM members Cyndy Mandell and Lois Papner. These retired educators saw the benefit of owning a store that is located in Hesperia, CA which is an attractive area for people interested in rocks and minerals. The store opened and soon we were enjoying a tour of the facility which includes meeting space and lots of rocks and minerals. After a self-guided tour of the facility, a meeting was held along with a delightful catered dinner. If anyone is near Hesperia, be sure to plan on a few hours of shopping at the Mining Supply and Rock Shop located at 9565 C Street Ste K, Hesperia, CA.
On July 14 the Chapter meeting was held at the Mitsubishi Cement Corporation Mine in Lucerne Valley. Dave Rib, Environmental Manager, gave a very interesting tour of mining operations and he also brought in the aspect of what processing is necessary to keep operations running smoothly. Gena Oliver and Juanita Czupor made this a very successful and interesting meeting and we were provided a delightful buffet dinner.

No Chapter meeting was held in August.

On September 12 we again had the pleasure of holding our WIM meeting at the Mining Supply and Rock Shop. We enjoyed self-guided tours of the shop and a catered dinner and meeting that followed.

In October our Chapter is sponsoring an event which is designed for a limited number of local teachers as well as a group of young rising stars that love rocks. These last few months of little teaching activity has provided us with time to get ready for this very informative conference. The teacher event will include a bus trip up to the Mitsubishi Mine. The young students will be learning some mining basics and enjoying the Victor Valley Museum which is the venue for the event. We will have details and pictures in our next report.
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.

2016-2017 OFFICERS and COMMITTEE CHAIRS

President Stephen Tibbals—Nevada
Vice President Donna Thornton—Texas
Treasurer Amanda Daams—California
Secretary Kimberly Dennis—Texas

Student Chptr Liaison Karen Jass—Denver

Bylaws – Nevada, Denver & California
Finance – Denver & Calif Chapters
Historian – MS&T Chapter
Legislative/LinkedIn – Nevada Chapter
Membership – Texas Chapter
National Quarterly – Denver Chapter
Public Relations – Calif Chapter
Website – Education Foundation

The next National Quarterly will be published January 1, 2017

Chapter Reports are due December 15
Send to: dorr@smenet.org

Lead Story Assignments:
January 2017 Issue — Denver
April 2017 Issue — Texas