Kentucky is a state famed not just for college basketball, but also as a state steeped in rich coal mining history. Many Kentuckians and other people alike fail to realize the importance of Kentucky coal. Just a short drive from central Kentucky, one can find the mining of the state’s #1 natural resource both in the vast hills of Eastern Kentucky and the flat lands of Western Kentucky. These coal mines don’t just produce an efficient energy source, these are the coal mines that help people across America turn on the lights or fire up the electric heater on a chilly winter day. These are the coal mines that provide jobs and a stable income for families and form the backbone of the economic stability of communities.

Unfortunately, in today’s current coal industry these once booming towns are becoming ghost towns. Thus, the University of Kentucky WIM Chapter understands the need to focus on all types of mining, not just coal, to be able to better adjust as changes take place in America’s energy policy. Therefore, it has become the mission of those in the University of Kentucky WIM student organization to highlight not just the importance of coal mining and Kentucky’s rich coal mining history, but the importance of all types of mining to young students just starting their adventure into the world.

University of Kentucky WIM has been successful throughout the semester reaching out to 6 different classrooms in Lexington, Kentucky, ranging from first to third grade. From exploration to mining to processing and reclamation, the WIM chapter has created a presentation filled with kid friendly activities that outline the math and science behind extracting a valuable commodity from the Earth. In those presentations, we describe what items in the classroom have been produced from a commodity that was mined. The presentations are focused around the various stages of mining, as explained by using a chocolate chip cookie.

(cont. on page 2)
Lead Story:
**Educating a New Generation**
(cont. from page 1)

The chocolate chips were the resource that needed to be “mined” from the cookie portion. The removed chocolate chips were then placed in water to show separation density and represent processing. With the chocolate chips removed, the cookie was reassembled to represent reclamation. The presentation helped the students understand that many everyday items come from a mined resource. Presenters explained that coal allows the students to have lights in their classrooms; gold and many other metals allow them to play games on the computer; and graphite allows them to do their dreaded homework.

It is always rewarding to see younger students become interested in a topic such as coal, one that they might not be so fully introduced to until later in their education. It is equally as rewarding to answer questions they have, such as if there are snakes and bears that live underground in the mines.

The University of Kentucky WIM chapter has multiple upcoming events planned. With winter break approaching, U.K. WIM members will be traveling home for a few weeks and some will be providing presentations at their former elementary schools. In this short time frame the number of elementary students informed is expected to double, as we anticipate visiting four schools. In February, the largest one-day engineering educational event at the University of Kentucky, E-Day, will occur. During the event all forms of engineering will be on display. At E-Day, WIM members will be representing the University of Kentucky Department of Mining Engineering. The planned Mining Department display includes full scale equipment simulators, a hydro-cyclone demonstration, a three dimensional underground room and pillar model, and a coal loading contest for young students.

In a state with such a rich history and economic background based on coal mining, University of Kentucky WIM sees the importance of educating the leaders of tomorrow about mining’s past as well as the important role it plays in the future of America’s energy and economic stability. It is vital that we inform others of the diversification of a mined resource, as goods don’t just appear – they are made from something that is grown or mined. Or as we like to say at University of Kentucky, “**If it can’t be grown, it must be mined!**”
FROM THE PRESIDENT
Stephen Tibbals

The first thing I do when preparing to write a president's message is to re-read the message I wrote last quarter. I did this again in December and was amazed how serious my message was last quarter. I must have been feeling more than my fair share of the weight of the world on my shoulders at the time. With Christmas slipping quickly by and with the new year emerging I thought maybe something a little more upbeat would be in order.

I feel very blessed to work in the mining industry. It is not always easy. Like any business it has its ups and downs. There are hard decisions to make that affect the people around us and every mining company is under great pressure from external and internal sources. But this is like any business. Our country as a whole is struggling with what we want to be and become in the 21st century and none of the choices are easy. The point is that the mining industry as a whole treats its employees very well. We have decent wages and it didn't take the federal government to get our industry to provide insurance and benefits that enhance our lives and keep our families safe and healthy.

What's more, I like the work I do. I look forward to traveling the 60 minutes to work so I can get back to the projects I am working on. Not all of the mining industry's employees feel this way, but if they stay in the industry they will eventually find a job that suits them. In my job and through the organizations I belong to I talk to a very diverse group of exploration, open pit mining and underground mining employees. From CEOs to laborers I find them as a group to be very thankful for the jobs they have and the way they are treated. I think all of us need to get the word out that the mining industry is a great place to work.

I am also very happy that our At-Large group has finally had its first conference call. This group is comprised of individuals who do not live in areas that have chapters. They have largely been afloat within the organization. It is hard to contribute when you are not near any of the chapters that are educating students and the general public about mining or raising funds for scholarships. I think starting the dialog between the members in this group is a very positive thing and I expect it to become a moving force in our organization. We have even begun to give students graduating from our student chapters a free year of At-Large membership to encourage them to continue their participation. A significant number of students move to areas without any chapter and we want to keep them involved.

We have also had several requests from groups to form new chapters. A well run chapter is a fun organization to belong to. It provides regular meetings where people can get together and talk about what is going on and how we can help our industry excel. It also provides an opportunity to learn about our industry and to learn to communicate this information to others. I want to encourage all of our chapters to make our meetings educational and fun for our members. Having guest speakers or having the meetings at one of the regional mines are great ways to make the meetings fun.

Welcome to 2014 and I hope you are looking forward to it as much as I am.
The National Quarterly

CALIFORNIA CHAPTER REPORT
By Betty Peters

The California Chapter of WOMEN IN MINING continues to be a group of “people in demand.” Once educators learn about WIM and the value their message brings to the classroom, our calendars fill up as you can see below. Teaching students as well as teachers, attending booths at conferences and working hard to raise funds at our annual golf tournament takes time. We are all proud to be members and we especially appreciate the support we receive from the companies we work for. We all recognize that this is not time wasted. We leave the event feeling like we have made a difference for the benefit of the mining industry.

Meetings

On September 26th WIM held a Chapter meeting at the TXI Riverside Cement Company’s Crestmore Mine in Riverside. We learned about the amazing history related to this mine and enjoyed the fact that in the midst of their mining, a lake began to appear at the bottom of the mine. Today it is a sanctuary for desert animals!
On October 15th WIM held a Chapter meeting at the California Oil Museum in Santa Paula (a short distance from the ocean 😊). WIM member Bonnie Walters provided a very interesting tour of the Museum which is housed in the first California offices of Union Oil Company. At the end of the museum tour we were taken on a drive to see a “natural oil seep” where oil in a nearby canyon hillside is seeping freely. Amazing to learn about the oil industry.

On December 5th a Celebration of Accomplishments was held in Victorville at the Golden Corral Buffet. All participants were encouraged to continue their efforts to educate the public about the value of minerals.
Save the Date

WIM National Annual Meeting

June 5-7, 2014
Denver

Details to be announced
Amanda Adams writes: I want to share my experience from Girl Scout Day at Dinosaur Ridge. The event took place on October 12 and we finally had nice weather! Karen Jass, Jennifer McCarter and I manned the WIM booth. According to the event organizers there were between 750 and 800 people who attended! The Girl Scouts visited different booths to learn about geology, paleontology, mining, minerals, and female historical figures such as Molly Brown.

The WIM booth featured display cases with minerals and the everyday household products that are made from them (including batteries, makeup, medicine, even food). After visiting our booth area, the girls have a whole new appreciation for the importance of mining in their lives! This event provides a great opportunity for WIM to reach out to girls of all ages to expose them to careers in the mining industry. It is also a great way to address misconceptions that they have about mining (primarily, that it is not safe).

I asked one group of girls if they had even been to a mine and they replied that they had been on a tour of the Argo gold mine. When I asked them if they would ever consider working for a mine they replied “no way, we would die!” When I asked them why they thought this, they told me on the tour they learned about the ‘Widow maker’ a piece of mining equipment (a jack leg for drilling) that was so dangerous it killed 50% of the men who used it. I had to explain that equipment like that was used in historic mining, and there is new advanced technology and strict safety regulations for the mining industry today. Unfortunately, the image of the 1840’s California gold miner and the 1930’s Pennsylvania coal miner are often the only exposure that students today have to mining, and although it is important to understand the history of mining, it is critical to share the new image of the mining industry in order to dispel these outdated stereotypes.
On October 23rd, Arloa, Scotty and Del Norman traveled to Spokane, WA for the Silver Summit and our Silent Auction. This was our fifth year of the Foundation benefiting from the Silent Auction connected with the event. WIM National Past President Jann Higdem had a table next to ours so she was able to help when we needed her.

This was the first year that the Silver Summit had become one of the Cambridge House’s investment conferences so we met some new people who will be involved in the future. Attendance was down for this year’s event, mainly due to financing issues for a lot of junior mining companies. However, there were still quite a few exhibitors, many long-timers and several new ones as well. Unfortunately, the lower attendance meant that the number of donated items was also down. With the price of silver down, and many of the donations being silver coins, bars, etc., the bids were much lower and our final earnings less than we anticipated.

We had an interesting issue with a donation from Pan American Silver which was mailed from Vancouver, BC to Spokane, WA and was delayed getting through customs; we finally realized it was due to the recent government shut-down. Regrettably, the items did not arrive until just before we left but we will have them for next year’s auction. These unique items are Uqllu scarves, which are handmade in Peru by talented artisans as a social responsibility initiative. It is an incredible project where all the proceeds from the sale of the scarves go directly back to the artisans. Uqllu is supporting these women by allowing them to have careers and support their family, while creating luxury baby and royal alpaca pieces for the consumer. When I opened the package and showed Scotty and Jann I was not sure if we would have all six of them for next year, but I did learn that they can be purchased.

In February, some of the EF Board will be in Salt Lake City for the annual SME conference where we will be receiving the Minerals Education Coalition Partnership Appreciation Award. Information on this award was featured in the October 2013 National Quarterly report. I will be sending out information to all the Directors as to the dates and times of when we are expected to be present to accept the award.

(cont. on page 9)
At this year’s Cal-CIMA Education Conference in conjunction with their annual meeting, WIMEF Director Ebony McGee was selected to speak as a part of the SMARA Lead Agency Panel. Ebony is the Senior Natural Resource Planner – SMARA & Oil & Gas for Ventura County. Her report is featured below.

Cal-CIMA Education Conference, SMARA Lead Agency Panel
Presentation by Ebony McGee

The permitting process can be complicated, lengthy and challenging but it doesn’t have to be. With the right tools and resources, operators can smoothly navigate mining projects through the permitting process – reducing time and money. By understanding the permitting process and the roles and responsibilities of the local lead agency, operators can meet the expectations of the lead agency with ease. The session was a general session attended by all attendees of the conference, which was really a great honor. The session was designed to help operators work successfully with lead agencies to develop viable projects that the decision makers and community can support. My presentation included a step-by-step guide through the permitting process and provided insightful answers to some of the mining industry’s most popular, complex permitting questions. I provided operators, consultants and environmental managers with the inside scoop on how to get a project permitted without major “pit” falls.
The Nevada Chapter of Women In Mining did not host a meeting during the last quarter; however, we did gain a few new members. The Nevada Chapter currently has 31 members (as of the end of November), some of whom were busy with activities and fundraising events this quarter.

In November, members Jesse Danner and Ginger Peppard attended the first ever Goldcorp Inc. Women’s Conference which is the next step in supporting their Creating Choices program. Held in Mexico City, the “Believe to Achieve” conference had almost 100 women in attendance from Goldcorp’s sites worldwide (from Canada, United States, Mexico, Guatemala, Argentina and Chile). The conference was filled with networking activities, workshops on life/work balance, setting and achieving goals, panel discussions, and many other exciting and inspiring topics. The conference also included speeches from women throughout the company – from executive board members to graduates of the program. This conference was the next step in Goldcorp’s commitment to empowering women in the mining industry and teaching them the tools they need to grow, succeed and lead.

Fundraising Activities & Scholarships

The Nevada Chapter has continued to offer bartending services at local events such as weddings, company parties and community events in order to benefit our Scholarship Fund. The holiday season is always our busiest for bartending events. In November we hosted the bar for the Florida Canyon Mining anniversary dinner party. In December we provided services for the annual holiday parties hosted by Barrick’s Turquoise Ridge. Both events were held at the Winnemucca Convention Center. These parties have historically been some of the most profitable events for WIM, and while attendance was down this year due to a big snow storm, we still received enough money from tips alone to fund one scholarship. Thank you to all the members (and non-members) who stepped up to help out with these events: Karon Battiest, Michelle & Harvey Cuellar, Katie Gardner, Brenda Heintz, Brad Hilliard, Sharon McAllister, Scotty Norman, Ginger Peppard, Julie Pugh, Stephen & Sheree Tibbals, Nick Taulbee, Mark & Lenora Turney and Arloa Woolford.

(cont. on page 11)
Special Feature: Facing Your Fears for a Good Cause

Brenda Heintz, Nevada WIM member and Executive Director for the Fred and Mary Taulbee Charitable Foundation (FAMTCF), faced one her personal fears for a good cause in September. The Blue Grass Chapter of Boy Scouts of America had graciously invited FAMTCF to participate in the “Brave the Blue II” event. This remarkable fundraising event gave participants the opportunity to rappel 410 feet from the tallest building in Lexington, Kentucky, on September 25-26, 2013. Brenda Heintz and Roger Haverty, Director of Special Projects for FAMTCF, went “over the edge” of the 31-story Lexington Financial Center in order to raise money for young adults in the Appalachian region.

The FAMTCF functions as a bridge organization for the orphaned and abandoned children of Appalachia who are aging out of the critical support systems in which they have grown up. The mission is to ensure the success of orphaned and abandoned young adults between the ages of 17 and 24 from the Appalachian Region in their pursuit of higher education and career paths through financial assistance, mentoring and life skills training.

This organization is especially important because while the Commonwealth of Kentucky will fund college for its orphaned children, less than 2% pursue a secondary education after graduating high school. FAMTCF’s goal is to change that by offering a number of unique programs designed to prepare orphaned children for life and to succeed both before and after they age out of the foster care system.
Carol Kiser writes: At the monthly meeting of Women in Mining on **October 16**, speaker Marie Patterson of AngloGold Ashanti gave a wonderful presentation on coordinating with the State of Colorado and AngloGold Ashanti to get Colorado gold on the dome of the Colorado capitol building. Ms. Patterson is Manager of State Government Affairs for AngloGold Ashanti, as well as a long-time WIM member. It was fascinating to see and hear about the process of acquiring the gold, sending it to Italy to process and having it delivered back to the capitol in June. Application of the gold leaf sheets on the dome began in October, and the entire process should be completed by Fall of 2014. According to the Denver Post, the final portion of the work - dealing with the observation deck and lower portion of the drum - will be finished in late summer. Gold for the dome was donated by AngloGold Ashanti’s Cripple Creek & Victor Gold Mining Company in central Colorado, which mines gold from the same sources as the gold first used to gild the iconic dome. A total of 75 ounces of gold was donated. Only 65 ounces was used to re-gild the dome, and the remaining ounces will be held in reserve for future touch ups. The mine has been a Sustaining Member of WIM Denver Chapter for many years.

Congratulations, Marie. What an accomplishment! Marie was also passing out these clever mining buttons. Can you read what this says?
Denver Report (cont. from page 12)

Betty Mahaffey writes: On November 20, State Senator Jeanne Nicholson spoke to us on her policy views for Colorado's mining resources and how she views the future of this valuable industry. We all know that there are differing opinions on the management of natural resources. Senator Nicholson's methodology for the development of energy policy is to look at the whole picture and then develop a comprehensive package that encompasses all aspects to avoid dependence upon only one resource. She views the mining industry as a valuable contribution to Colorado's economy. She cites the example of the Henderson Molybdenum Mine in Clear Creek County as an example of industry "best practices" for making mining safe for both workers and the environment. Recently, She toured oil and gas operations in the Bakken Formation in South Dakota to get a sense of the effects of what an oil boom is like for the affected community and to study the impacts of crude oil processing, water issues, drilling, fracking, and transport. Senator Nicholson won her race for the Senate District 16 seat in 2010, and became the Senate Majority Caucus Chair in 2012. She serves as Chair of the Senate Local Government Committee, and as a member of the Health and Human Services and Legislative Council committees.

Karen Jass writes: The Society for Mining, Metallurgy & Exploration Inc. (SME), The Minerals Education Coalition (MEC), and WIM volunteers worked for months to prepare for the SME-sponsored booth at the National Science Teachers Association (NSTA) area conference held at the Colorado Convention Center in Denver December 12-14. MEC staff and volunteers distributed free rock kits and educational materials to K – 12 teachers and other educators. This year the MEC Subsection had chosen the theme “Minerals Are Life” with the emphasis being minerals used in food products. We also handed out flash drives containing activities and resources, and demonstrated a toy diving submarine using baking soda.

Volunteers gathered at several “bagging parties” to prepare bulk mineral samples that went into the mineral kits that were distributed to the teachers who came through the SME booth. These awesome volunteers worked long hours and were amazing spokespersons for our industry!
Educational Events

September 6th – Dinah Shumway led an educational program for a group called “Seniors with Inquiring Minds” (SWIM). Along with showing a video on the Barrack Cortez Hills Gold Mine, Dinah taught 50 attendees about gold along with using her educational PowerPoint lesson named “Gold, Gold, Gold.”

September 10th – WIM Members provided teacher workshops at the Mojave Environmental Education Consortium (MEEC) at the Mitsubishi Plant in Lucerne Valley. The “Cement is not Concrete” lesson was taught by Darlene Bray, Gena Oliver and Jackie Simmons. Teachers walk away with mineral samples and more information on minerals and their uses.

September 12th – Dinah Shumway taught 40 people at the Apple Valley Rotary about gold showing her special “Gold, Gold, Gold” PowerPoint.

October 5th – Youth Environmental Leadership Conference (YELC) and Science, Technology, Engineering and Math (STEM) Service learning event was held at Granite Hills High School. Over 300 students participated in the event and there were 6 rotations of 12 – 15 students every a half hour. Julie Lakes-Martinez and her daughter handled the booth including a lesson on “Cement is not Concrete.”

October 8th – Temecula Middle School – Christine Jones, Darlene Bray and Desirea Haggard were able to speak about careers in mining and teach the toothpaste activity to many students.

October 25th – Dinah Shumway taught 60 students (two classes) at the Vanguard School Robotics Classes. This lesson was also about gold along with a minerals PowerPoint presentation.
More Educational Events

November 8th – Darlene Bray, Lois Papner and Cyndy Mandell presented Chocolate Chip Cookie Mining to five classes of 35 to 40 students at Montclair High School.

November 15th – Dinah Shumway taught environmental education classes to 60 students (2 classes) at the Oak Hills High School.

November 16 & 17 – The Oxnard Gem & Mineral Show held their annual event in Oxnard. Gena Oliver and Patti Deer had a booth where they taught young visitors about minerals and how toothpaste is made.

November 22nd – WIM members, Sheri Haggard, Julia Lakes, Jennifer Evans and Desirea Haggard led 2 outreach activities as part of Rancho Middle School’s STEM day. Both activities dealt with conservation. The first was water filtration where the students made dirty water and designed a filter to clean the water. The second was energy where students tested various styles of light bulbs and calculated the cost to use them.

December 6th – Dinah Shumway taught at the Victorville Rotary meeting. She spoke and also showed the Barrick Cortez Hills Gold Mine video along with the “Gold, Gold, Gold” PowerPoint.

Keep up the good work CALIFORNIA WIM MEMBERS…. You are the Best!!!
One of the sponsors of the “Brave the Blue II” event, and a continued supporter of the Blue Grass Council – BSA, is Friends of Coal – Kentucky. FAMTCF is honored to be in the process of cultivating a relationship with this group in order to introduce these young adults into every aspect of the mining industry. As many of us know, there are myriad employment opportunities in mining. These include, but are not limited to, engineering (including drill and blasting), fitters and mechanics, metallurgists and surveyors, geologists, supervisory and site management positions, heavy equipment and truck operators, welders, laborers, process operators, sample and laboratory technicians, environmental and safety staff, accounting, human resources and security work. Being able to educate these young adults about the opportunities that exist in the mining industry is one of the main objectives of the organization and increase the opportunities for future mentorships and educational/intern opportunities. The more these youth can learn about their opportunities, the better their chances of success will be.

It should also be mentioned that Brenda is terrified of heights and participating in this event took all the courage she could muster. (To this day she still hasn’t been able to watch the video that was taken of her during the descent!) But that isn’t stopping her for continuing her work with the organization; she will be headed back to Kentucky in January in order to participate in some other events with orphanages and meet again with the Blue Grass Council. This time, however, she plans “to keep her feet on the ground!” Thanks to the kindness of others, $2,000 was raised during the event to help support this program. If you are interested in learning more about the Foundation, their website is www.famtaulbee.org and we encourage you to join them on Facebook!

**Member Achievements**

Each quarter we like to recognize our members who have achieved personal or professional goals or recognition. Please join us in congratulating these individuals on their achievements!

**Ginger Peppard**  
Ginger received a promotion during the fourth quarter and is now the Senior Environmental Specialist for the Marigold Mining Company (Goldcorp Inc.). Ginger has been working in the mining industry for 4.5 years and advanced to the Senior Environmental Specialist position after approximately 2.5 years with Goldcorp. Her current activities include managing the site’s air permitting program, working with the local communities on sustainable development opportunities and managing geochemical and hydrological baseline studies to prepare Marigold for future permitting under NEPA.

**Debra Struhsacker**  
Debra joined Pershing Gold in September as their Corporate Vice President. Pershing Gold is focusing their efforts on putting the Relief Canyon Mine in Pershing County, Nevada back into production. Debra has over 25 years of expertise with the key environmental, public land, political and stakeholder issues pertaining to mineral exploration and mine development and has been a Women in Mining member for many years. She is well known in the industry as an effective mining industry advocate with a proven track record of successfully permitting mineral exploration and mining projects.
Jackie Dorr writes: WIM Denver Chapter partnered with SME and MEC during the NSTA convention to continue the booth’s theme “Minerals Are Life” by conducting a workshop on December 13 where we presented “Toothpaste with a Twist.” In addition to exploring how minerals are used in toothpaste through the fun, hands-on activity, we provided teachers with hand-outs listing additional resources for their classroom, reclamation success stories, and MEC posters about plate tectonics and minerals in the human body. Click on this link to see a pdf of our PowerPoint presentation which is posted on the WIM website on the Denver Chapter page. We gratefully thank and acknowledge WIM National for paying the Exhibitor Workshop fee which NSTA charged us to make the presentation.
The next National Quarterly will be published April 2014

Chapter Reports are due March 15, 2014

Lead Story Assignment:
Education Foundation

Answer to button jingle on page 12: “Mining Matters in Everyday Life”