



WOMEN IN MINING

October 2011

The National Quarterly

EDUCATION FOUNDATION By Arloa Woolford

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Student
Chapters have
been on summer
hiatus

Some upcoming events...

October 20 to 22, we will once again be at the Silver Summit in Spokane, Washington and will be the beneficiary of their Silent Auction. Scotty Norman and Arloa Woolford will be traveling to this event, and we will also have the assistance of Jann Higdem during the two-day program.

October 27, we are scheduled to present a short course at the Hartford, CT NSTA Regional Conference. We will be using a lab room at the Connecticut Discovery Center, next door to the Convention Center. The lead NSTA person felt it would be a great place for us to show what we do in a different setting than a conference room. Jackie Dorr and Arloa Woolford will be the presenters.

We were not successful in securing workshops or short courses for the New Orleans or Seattle regional NSTA conferences, or the National conference in Indianapolis in March 2012. It has become increasingly more difficult to get our classes scheduled during NSTA regional conferences; therefore, a couple of our Directors are exploring the possibility of presenting at different State conferences. While many of the conferences only offer one-hour workshops, some host pre-conference 4 to 8-hour sessions. We will be receiving more information as to proposal dates and such after the first of the year.

In the meantime...

Some of our Directors remain very busy wearing other mineral education hats. One of them is Georgene Robertson who is on the Board of Directors for the Southern West Virginia CEDAR group. Please visit their website at www.cedarswv.com.

CEDAR (Coal Education Development and Resource) is deep into their tenth year, and to date they have provided 432 teachers with approximately \$102,671 in grant money to utilize for teaching about the many benefits coal has to offer in their home school districts. More than 10,571 students have been involved in these programs in five counties of West Virginia.

(cont. on page 2)

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(Education Foundation, cont. from page 1)

CEDAR, Inc. began in eastern Kentucky in 1993 as a partnership between the Coal Industry, Business Communities and Educators with the purpose of improving the image of the coal industry. The following year a chapter was established in western Kentucky. The Southern West Virginia group was established in the fall of 2001, with help from the North Carolina Coal Institute, the Kentucky CEDAR programs and two coal associations. A Virginia Chapter was formed in 2005.

These are non-profit, all volunteer groups, created as a grass-roots effort to work with teachers and students educating them about coal and the economic benefits offered by the coal industry.

The Southern West Virginia Chapter hosts a Regional Coal Fair in late April and students are encouraged to develop a project in one of seven categories: Science, English, Math, Music, Art, Social Studies and Multi-Media. They are split into three grade levels, K-4, 5-8 and 9-12. Students begin working on their projects in January/February. Each school principal from the participating five counties selects a coal fair coordinator and cash prizes are awarded to both students and coal fair coordinators. Parental involvement is encouraged to educate them as well as the students.

The projects (displays) are set up and registered the day before the judging, usually on a Sunday, and then on Monday the judging begins. They utilize three judges, one from industry, an educator and a business leader, all from outside the five counties involved. During the judging, the students demonstrate their projects to the three judges. On Tuesday through Friday, the displays are open to the public and a local radio station and the local Community College interviews students discussing their projects and these are aired and shown throughout the year. They also schedule bus tours to the venue to bring others from the surrounding area to see the displays. This event provides an outlet for local student talent to shine that would otherwise go unnoticed.

This year, several of the winning students presented their projects for Tug Valley Mining Institute attendees. This program is an excellent example of a partnership between the Industry, Business Community and Educators, created to improve the image of the coal industry and is very successful.



Left to Right:
Brenden McClanahan 1st place Science K-4;
Trace Clark 1st place Math K-4;
Levi Smith 1st place Math 5-8;
Tianna Lester 1st place Music 5-8;
Kylen McClanahan 1st place Social Studies K-4;
Aerianna McClanahan 1st place Multi-Media 5-8.

See Page 7 for More Participant Photos.

(cont. on page 5)

FROM THE PRESIDENT

Betty Mahaffey



I hope that all of you are having a fun and rewarding summer. I am happy to report that we are still growing and two new At-Large members have joined us this summer. Welcome to WIM!

Our goals and objectives of educating the public about the benefits and opportunities that the mining and extractive provides to our country (and the world) continue to be important. When you read the national news, you see positive reports about projects such as the pipeline from the tar sands regions in Canada to Texas for refining being approved by President Obama's administration as environmentally safe and approved to move forward; then you read about environmental activists protesting the project and promoting wind energy. This type of publicity shows us how much we need to pursue our educational policies. Wind energy is a promising and effective technology; however, at this time, it is heavily subsidized and can't provide the energy resources that are needed to serve our country. In addition, it is only practical in remote regions where there is an abundance of wind. Because of the impact on scenic vistas, it is unlikely that it will ever be accepted on a large-scale basis in urban areas.

We all know that alternative energy is the future; however, here in the present, our extractive industry is vital to our lifestyle and national interest and this shows how important our educational mission is to our country.

To all WIM members: keep up the good work and let's work on even more creative ways to educate the public about how important our industry is to the well-being of our country.

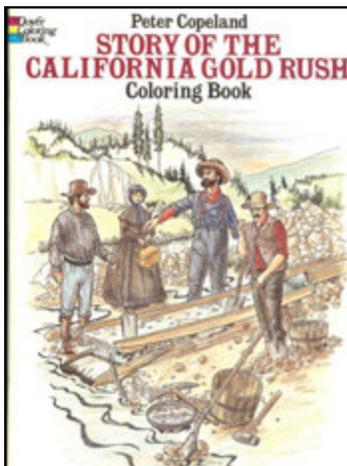


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CALIFORNIA CHAPTER REPORT: THERE ARE STILL WOMEN WORKING IN THE MINING INDUSTRY !

By Betty Peters

While traveling through mining country in Northern California, a local store had a coloring book that caught my eye. It was a book by Peter Copeland called "STORY OF THE CALIFORNIA GOLD RUSH." After thumbing through I thought that it would be a great book to introduce to my



grandkids to show them how mining got started in California. The front cover was interesting as it showed the men busy working a laborsaving device used by the miners called the "Long Tom" which washed gold from the gravel of a stream bed. The book cover also shows a lady in her long dress, complete with hat and mini-cape, carrying a basket containing a lunch for the miners. She was doing her part for the mining industry.

Today, the "Long Tom" type process has been replaced with vehicles able to lift tons of material to be refined into a valuable mineral which is used in our everyday lives. And, today, many women are much more involved in the mining industry then just preparing and delivering a delicious lunch.

WOMEN IN MINING connects women involved in or interested in the mining industry. Among its members are women geologists, environmental managers, attorneys, engineers, air quality managers, mine managers, college and public school teachers, and many handling the paperwork necessary for keeping a mining business prosperous. Women in the mining industry have come a long way from daily visiting the laborers and bringing them a basket lunch. However, having hands-on experience with heavy equipment still is not something women are often involved with. The management of TXI Riverside Cement decided to allow WIM to hold a meeting at their Oro Grande mine and introduce heavy equipment operations to those members that were interested.

In July, out in the Mojave Desert, several members of the California Chapter came together to experience what it is like to ride in a large haul truck or drive a fork lift and other mining operations equipment. The event was called "Heavy Equipment Jamboree." Of course they were given safety training, task training, hands on exercises and then at the end, a certificate of completion. Everyone was excited about this opportunity and we thank the Management of TXI for making this event possible. The pictures provided are worth a thousand words!



Christine Jones

(please go to page 11 to see the pictures)

DENVER CHAPTER REPORT:**Goal Setting Workshop**
by Amanda Adams

WIM Denver Chapter members met on Saturday, July 16 to engage in a goal setting workshop, facilitated by one of our “Founding Mothers” Lois Brooks. The main goal of the workshop was to identify activities and efforts that are “working”, things that are “not working” and to assemble a WIM wish list of ideas for the near and distant future. The attendees included Betty Mahaffey, Karen Jass, Heather Ericson, Jackie Dorr, Resa Furey and Amanda Adams. The first activity that we participated in was to discuss some on the activities that were successful in the past, as well as some things that could be improved. One of the key activities from several years back was Industry Appreciation Night, which had waning success over the last several years that it was put on.

The next action was to create a “SWOT” analysis (Strengths, Weaknesses, Opportunities and Threats). Ideas were put into each of these categories, which allowed the group to map out a plan to take on new opportunities, and decrease weaknesses and threats. Some of our identified strengths included the WIM culture, the quality of speakers that attend the monthly meetings and the scholarship program.

After the SWOT analysis, it was time to fill in the wish list. The WIM wishes could be long term or short term goals, and the wishes were later prioritized. The main needs that were identified were increased membership (possibly through the use of more social networking), more active members to participate on committees, and a tagline to get our message out to the public! A contest will be held with the membership to choose the tagline.

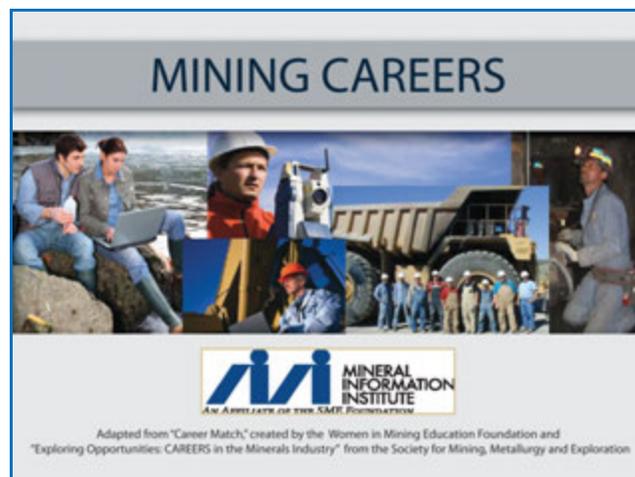
The outcome of the meeting was a success - the participants felt re-invigorated to participate in WIM activities, encourage their friends and co-workers to join WIM, and to continue to build on what has made WIM successful in the past. Look for exciting changes to the Denver Chapter as a result of this workshop, including a WIM facebook page, and the possible resurrection of Industry Appreciation Night!

(cont. on page 6)

(Education Foundation, cont. from page 2)

Another Director who wears many hats is Jackie Dorr, the Manager of Mineral Information Institute, an affiliate of SME. Mii recently released a great booklet on Careers in the Mining Industry with some material taken from the WIMEF Career Activity. This booklet can be downloaded from www.mii.org/pdfs/Careers_in_Mining.pdf and we encourage all of you to download a copy of this for your personal use or for distribution to the educators and students you visit.

Submitted by Arloa Woolford
WIM Education Foundation President



(Denver Report, cont. from page 5)

Fabulous Coal Fields Tour

By Karen Jass

On August 22, we had a great mixed group of WIM folks and some SME folks who wanted to learn more on the evolution of mining in Colorado's Northern Coal Fields. We began our tour in Marshall, where the open space has a great display depicting the coal town of Marshall in the early 1800's and the geology. Our guide, Chris Carroll (CGS, Coal Geologist) gave a much more detailed explanation of why we have coal in Colorado, why only in certain areas, and where it can be found - basically along the rim of the Denver Basin. This was a busy little town and at the high point had 51 mines in this little area that now is now the Marshall Mesa Trail and crosses over what were mines. There is coal outcropping in the field – which Chris literally tore into, and there are signs of mining everywhere from the railroad embankments to subsidence features, to the burning seam across the street. As we moved to the Northeast, we went to Louisville, and as we moseyed to the restaurant for lunch, stopped to critique the statue outside the City building. This was a town founded by Italian coal miners.

Next we travelled to Lafayette where, once coal was determined to be under her property, Mary Miller started the largest coal mine under the town which is now known by her former husband's name, Lafayette. On her own as a wise widow, she was also the first woman president of a bank in her home town. We stopped at the Miner's Museum and at the tile mural on the public library (see photo below) to explore the local history. Local resident, Lori Windle, a researcher of coal mining, joined us for some local and very colored history of the towns of Louisville and Lafayette.

Finally we ended the day at the Erie Cemetery. We had a presentation by Jill Carlson (CGS, Engineering Geologist) who showed us proposed plans of a huge housing development to the east, north and south of the existing cemetery. She explained the requirements by developers and the plan restrictions for development over known coal mines. Interestingly, guess where the new Erie High School is built – right in the middle of 2 sections, and completely undermined. When I look at all the homes recently built or under construction I really wonder if the buyers even know to look at the existing maps provided by the state showing known coal mines. Pretty scary.

In summary, WIM thanks all of our guides for the information they shared and the time they spent with us. This was a most educational and enlightening tour.

Lafayette Mural – Mary & Lafayette Miller (left side) and 1950-ish Coal Miners.

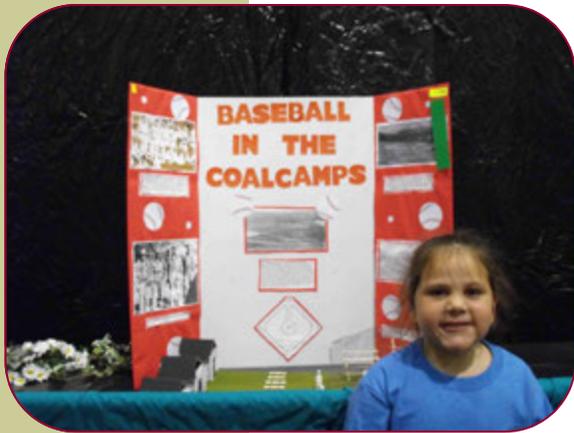
Note the black brick in the wall around the building emulating a coal seam among sedimentary rocks.



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More CEDAR Tug Valley Mining Institute Winners:

Elizabeth Sheppard, 2nd place Multi-Media K-4



Jacob Adkins, 2nd place Math K-4



Matthew Sheppard is proud of his project



John Ashurst, 1st place Multi-Media K-4



Tianna Lester, 1st place Music 5-8, performing live

LEGISLATIVE ACTION COMMITTEE – Update

The Legislative Action Committee has been very busy since its recent inception. Committee members seek out news that is felt could or will have an impact on our industry, and sends this news out electronically to all WIM members via the National Representatives.

The Committee has been intensely following the Environmental Protection Agency's actions, most of which appear to involve regulation of the Clean Air and Clean Water Acts under the auspices of reducing greenhouse gas emissions.

The EPA is following the IPCC's Kyoto Protocol that Congress has not, nor likely will ratify. Senator Inhofe and 44 other senators introduced S. 482 The Energy Tax Prevention Act of 2011, a bill to "amend the Clean Air Act to prohibit the Administrator of the EPA from promulgating any regulation concerning, taking action relating to, or taking into consideration the emission of a greenhouse gas to address climate change, and for other purposes." <http://www.govtrack.us/congress/billtext.xpd?bill=s112-482>. A related bill H.R. 910 was introduced by Rep. Upton and 95 co-sponsors. <http://www.govtrack.us/congress/billtext.xpd?bill=h112-910>.

On June 20 the U.S. Supreme Court decided its first climate change-related tort case, American Electric Power Co., Inc. v. Connecticut, No. 10-174 (AEP). The Supreme Court held 8-0 that the federal common law nuisance action seeking injunctive relief in the form of emissions caps on stationary source greenhouse gas (GHG) emitters filed by eight states, New York City, and land trusts is displaced by the Clean Air Act and the Environmental Protection Agency regulatory activity that it authorizes. This means that it is up to the EPA to regulate "offenders." Meanwhile, legislators are working hard to regulate the regulators. Please show your support for these legislators, as there are many others who will work toward the failure of these bills.

In May, the EPA published New Source Performance Standards [NSPS] in the Federal Register, which could cost the utilities industry alone \$129 billion and eliminate 9% of total U.S. power production. <http://www.epa.gov/ttnatw01/nsps/nspstbl.html>. A 262-page EPA report states the perceived benefits of their proposed regulations <http://www.epa.gov/osw/hazard/dsw/downloads/2011-ria.pdf>; however, the American Council on Science and Health countered the EPA report with a scientific paper "Regulating Mercury Emission from Power Plants: Will it Affect Your Health?" It states, "After a thorough review of the current data on the sources and health effects of environmental methylmercury, ACSH concludes that the health benefits of regulating US mercury emissions from coal-fired plants are unlikely to be significant." http://www.acsh.org/docLib/20050909_mercury_w.pdf.

In other news, NY City Mayor Bloomberg recently donated \$50 million to the Sierra Club to shut down coal-fired plants. Their Coal in Your Life website has a survey that always has the results that your life is in danger from mercury and gives you the link to tell the EPA. <http://coalinyourlife.org/>.

The EPA retroactively revoked the water permit for an Arch Coal project because *new* scientific research on mountaintop-removal mining since the permit was issued in 2007, indicated the *potential* harm to streams and watershed areas surrounding the Spruce project *could* be significant. Arch Coal says this would block an additional \$250 million investment that would create 250 jobs and is appealing the decision.

There is much more. The Legislative Action Committee is comprised of WIM members **Jann Higdem, Georgene Robertson, Serena Carlson and Patti Deer**. We are seeking more members to keep WIM updated on issues. If interested, please contact Jann at jhigdemwim@gmail.com. We also hope that each of you will review our emails and react as your heart guides you to.

NEVADA CHAPTER REPORT

By Christine Ballard and Eve Marie Hirt

The Nevada WIM Chapter took a much deserved breather after hosting the National Meeting in Sparks, NV in May. On August 28, we held a successful meeting and bar-b-que at an area park with the Chapter providing the main course and members bringing a wonderful variety of dishes from salads to desserts. We had ten members present, three guests and one of the guests is now our newest member.



Chapter members at August meeting, Highland Park

Our fundraising efforts (bars) last year were extremely successful under the direction of our Bar Chairman Jason Hirt. We have five bars coming up in the near future as the holiday season parties are now being booked. With Jason now working at Round Mountain Gold, our new President Eve Marie Hirt decided to appoint three bar chairs in order to split the duties.

President Hirt made the following appointments to our standing committees:

Bar Committee	Jason Hirt, Steve Tibbals and Brandy Johnson
Education	Scotty Norman
Finance	Steve Tibbals, Arloa Woolford and Tammy Harding
Legislation	Wendy Boge
Membership	Caren Idzinga
Publicity/PR	Karen Battiest
Scholarship	Arloa Woolford

An election was held to fill the office of Alternate National Representative as Jodi Wilson is moving out of State. Several nominations were made and after all ballots were counted, Ginger Peppard was elected to fill the position for the 2011-2012 Alternate Representative.

This year the Scholarship committee selected the following students as recipients of our four scholarships: The Dan Harper Memorial Scholarship went to Danielle Molisee, a junior geology major at the University of Nevada-Reno. Our three High School Scholarships went to Sheyleie Mortensen (Lander County High School), Ian Norman (Lander County High School) and Brian Tyree (Lowry High School). All our winners must submit their class schedule before they receive their first semester funds and then their grades for the first semester along with their second semester class schedule before we send their second semester funds.

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(Nevada Chapter, cont. from page 9)

The Chapter received some generous donations for the National Meeting from many companies. The Chapter voted to make them Chapter Sustaining Members for this year and they will receive the National Quarterly and be listed in the National Membership Directory as 2011-12 Sustaining Members.

Convention Chair, Arloa Woolford, made a motion that the Chapter donate some of the profits from the National Meeting to our Scholarship Fund as well as to the School Bus Fund at McCaw School of Mines in Henderson, Nevada. It was approved to move \$2000 from the profits, with \$1000 to go to each of the funds named.

The meeting ended with Karen Battiest, our previous Vice-President, presenting Steve Tibbals with a plaque expressing our gratitude to him for serving for three terms, from 2008 thru 2011, as our Chapter President. Steve thanked the Chapter for the plaque and also for his nomination and election as one of the two 2010 National Distinguished Service Award inductees awarded at the Annual Meeting last May.



Our newest member and cook—Mike Williams



Karen Battiest presenting Steve Tibbals with his President's Plaque

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CALIFORNIA GIRLS!

Clockwise from upper center:
Lois Papner, Leslie Santos,
Michelle Gordon, Kim Critchfield,
Gena Oliver & Michelle Gordon,
Cyndy Mandell, Julie Park, Patti
Deer, Karla Brown, Joyce
Fitzgerald, Bobbi Meikel, Darlene
Bray, Juanita Czupor.



IN CALIFORNIA ~ LIFE IS STILL A BEACH!



**Bahia Resort Hotel – Mission Bay, San Diego
SAVE THE DATES – MAY 17 – 18 – 19, 2012**

The California Chapter will host the 2012 WOMEN IN MINING National Meeting and the Committee is already making the necessary plans.

**Mission Bay ~ San Diego is the area, and the Bahia Resort Hotel is the place.
Stay Tuned!**



**The Planning Committee meets to prepare for a great National Meeting.
We are all looking forward to seeing YOU!**

Darlene, Karla, Desirea and Bobbie, and picture-taker Betty

WOMEN IN MINING

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WOMEN IN MINING 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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Next National

Conference Call:

October 8, 2011

The next National Quarterly will be published **January, 2012**.

Chapter reports are due **December 1, 2011**.

The lead article will be from the **University of Kentucky**.

