



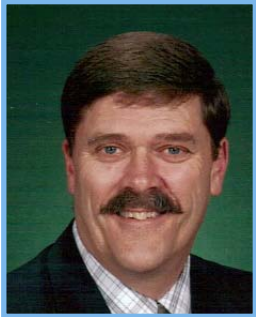
RMCM I Reporter



February 2009 - Term of President Kenneth Miller - June 2008 - 2009

Quarterly Update

President's Message



Ken Miller
Project Manager
Thunder Basin Coal Company

Into the Headwinds of Change!

This title will be the theme for the RMCM I convention in Snowmass, Colorado for 2009 – how appropriate! As the calendar turned to February, Americans look towards a new Presidential Administration and Congress, economic recovery, and the unceasing pressures for carbon mitigation.

Many of us have seen the recent media advertising that concludes, "there is no such thing as clean coal." In thinking about that, I realized the corollary regarding wind or solar: "there is no such thing as renewable base-load generation"! Base-load generation is really what our nation's energy policy should address. From where will those 10, 20, & 50 MW blocks of 24/7 power generation come?

Coal is the fuel for 50% of the nation's electricity. This position comes from two primary reasons – abundance and affordability. Natural

gas and nuclear energy split the next 40% share of fueling the electricity supply. Hydro, wind, solar, oil and biomass make up the remaining sources of generation. All of these sources are needed to meet the needs of the future.

Imagine a day without coal! Only 50% of the televisions could broadcast David Letterman. The Energizer Bunny would be working overtime. Speculators would have a field day with natural gas pricing. Remember air conditioning the old fashioned way – paper fans, blocks of ice, and evenings on the porch. The iPod and cell phone will have to wait to be recharged.

Today, there are 41 clean coal projects underway in the USA with price tag of \$6 Billion. As the Administration grapples with a \$750 Billion bailout and a Trillion dollar deficit; this seems like a pittance.

The American Coalition for Clean Coal Electricity reports that during the last 35 years, utilities have spent \$50 billion on technology to reduce regulated coal emissions 77%. During that time, every environmental challenge to the coal industry has been solved with technology. And so the challenge continues. Today, there are 41 clean coal projects underway in the USA

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2009 Meetings

105th Annual Meeting and Convention

Keynote Speaker
GENE KRANZ
Apollo 13
Flight Control Director

June 28-30, 2009
Snowmass,
Colorado

STATE MEETINGS

**AZ/NM/CO - April 24-25
Farmington, New Mexico**

Please note change in dates.

**CO/UT - May 14-15
Price, Utah**

**TRI-STATE - September 17-18
Gillette, Wyoming**

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Board of Directors

2008-2009

Kenneth Miller

President

Arch Coal/Thunder Basin Coal
307/464-2366

Randy Lehn

President-Elect

Peabody Western Coal Co.
928/913-9202

Mark Collett

Immediate Past President

Benetech, Inc.
801/999-8299

Gary Stubblefield

Convention Liaison Officer

Norwest Corp.
801/539-0044

Robert Bartosh

Advisory Board Chair

Dakota Coal Co.
701/221-4455

DIRECTORS

Dave Smaldone

Pacificorp

801/220-4607

Denise Dragoo

Snell & Wilmer

801/257-1998

Tom Durham

Westmoreland Coal

719/448-5808

REGIONAL DIRECTORS

Russell Hardy

CONSOL Energy

435/286-3513

Brad Lewis

ICG ADDCAR Systems

412/369-7233

Hank McCabe

Chevron Mining

505/371-6232

Kent Salitros

Western Energy

406/748-5198

Karen Inzano

Executive Director

303/948-3300

Tarra Nuss

Treasurer

President's Message

Continued from Page 1

with a price tag of \$6 billion. As the Administration grapples with a \$750 billion bailout and a trillion dollar deficit, this seems like a pittance.

It is heartening to hear the comments from **Dr. Stephen Chu's** confirmation hearing for Energy Secretary: *"I will work very hard to extensively develop these technologies so the United States and the rest of the world can use them."* He added that even if the U.S. were to move away from coal, China and India would not, and the U.S. has an opportunity to use its technological leadership to advance the use of carbon controls. *"It is a question of science and technology and really putting the pedal to the floor as quickly as possible to develop carbon sequestration technologies,"* Chu said.

Today the new Congress is implementing its game plan. First, the Stimulus Bill is the expansion of existing programs to be signed by mid-February. Second, the Energy Bill is targeted to be new programs that advance the Administration agenda of conservation, efficiency, and renewable standards. Next to be tackled will be Health Care, followed by Carbon Mitigation. If Carbon Mitigation stalls

in the U.S. Senate, will the EPA just regulate carbon? I appeal to the readers of this message – **be politically involved!** Make your representatives know that keeping your utility costs affordable is important to you. Let them know you are concerned for safe, reliable, and affordable electric service!

I invite you to join the RMCMI Convention in Snowmass, Colorado June 28 – 30. Hear **Gene Kranz** of NASA fame deliver the keynote address, *"Failure Is Not An Option."* Hear Touchstone Energy CEO, **Jim Bausell** speak from the perspective of representing the nation's cooperatives – America's largest block of coal buyers. **Dr. Jessica Smith** will debunk the myths of "North Country" and Academia with her presentation on the Advances of Women in Coal Mining. Peabody Executive **Jeane Hull** will talk about competition in the PRB. Hear updates on carbon capture & sequestration, behavioral safety, MSHA, asset reliability and other topics of interest. It will be an exciting two days – don't miss it!

See Ken's comments on Safety Strategy on page 11.

2009 RENEWALS

A "Renewal E-mail Invite" has been sent to all current members. If you wish to renew, you may renew online with a credit card or download the form and send a check to the RMCMI office. Paper statements have also been sent by mail.

Registering by credit card will give you instant confirmation and will help the office by saving us the time of manually entering the renewals.

If you do not renew by the e-mail invitation, you may go to "Members Area" on the left side of the RMCMI homepage. (Login is your e-mail address and password is "coalmining" unless you have changed it.) Please update any information in the member area, so that we may keep the RMCMI database current.

Membership remains at \$175 and for our senior members, 65 or better, the membership dues are \$50.

President-Elect Nominee

Dave Smaldone has been nominated by the Board of Directors, at their January meeting, to stand for election at the June Annual Membership Meeting. If elected, he will sit on the Board as President-Elect and then proceed into the Presidency the following year.

David Smaldone is Managing Director of Fuel Handling and Delivery for *PacifiCorp's* Generation and Coal Handling Facilities. He is a 1974 Graduate of the Colorado School of Mines and earned an MBA from Utah State University in 2003. A Registered Professional Engineer in Utah, Colorado, and Wyoming, he has over 30 years experience in Coal Mining, Fuel Procurement and Electric Generation.

As a former VP of the Institute and a very strong force in the procurement of the RMCM sponsorships, Dave has been continuously involved in his 12 years as a member of the Institute.

Dave and his wife Sonia live in Springville, Utah and have six children. They are involved in their church and love outdoor activities including running, golfing, fishing, skiing and four-wheeling.



New Board Member Nominee

Brad Lewis has been nominated by the Board of Directors, at their January meeting, to stand for election at the June Annual Membership Meeting. Other nominations may be made from the floor. If elected, he will sit on the Board for a three-year term.

Brad Lewis is Director of Marketing and Sales for ICG ADDCAR Systems and blends his prior experiences in engineering, manufacturing, mining operations and consulting. His career progression from union laborer to board member is highlighted with opening markets (12 countries), launching new products (up to a \$7,500,000 price tag) and closing profitable deals (\$300 million acquisition).

Previous employers include: CONSOL Energy; National Mines Corporation & Eastern Associated Coal; John T. Boyd Company; Joy Mining Machinery; and Hilti.

Brad has an MBA from the University of Pittsburgh and a Mining Engineering Degree from West Virginia University. He is a registered professional mining engineer and a certified mine foreman in West Virginia and Colorado.

Mr. Lewis serves as a Board Member for the National Mining Association's Manufacturers and Services Division and Holy Family Learning Institute.

He and his wife, Connie, live in Pittsburgh, Pennsylvania.



Committee Chairs

2008-2009

STANDING COMMITTEES:

Bylaws & Resolutions
Kent Salitros, Russell Hardy

Finance
Tarra Nuss, Randy Lehn, Denise Drago

Nominating
Gary Stubblefield, Randy Lehn, Dave Smaldone

COMMITTEE CHAIRS:

Convention
Gary Stubblefield 801/539-0044
Norwest

Membership
Brad Lewis 412/369-7233
ICG ADDCAR
Debra Evans 425/806-9999
Kepner-Tregoe

Mine Rescue
David Evans 903/626-6311
Texas Westmoreland
Cheryl Evans 903/389-7922
EMR Health and Safety

Patrons/Scholarship
Clark Moseley 214/725-5785
Emeco Equipment USA
Becki Boam 505/598-2271
BHP Billiton

Curt Belden 307/687-3963
Powder River Coal
Bob Burnham 303/425-5025
Wood Mackenzie

Professional Development
Phil Patton 970/263-5152
Arch Western Bituminous Grp.
Kim McCarter 801/581-8603
University of Utah

Public Education
Sam Quigley 435/637-7160
Intermountain Electronics

Public Relations/Marketing
Greg Hinshaw 304/525-7811
J.H. Fletcher & Co.
Tom Bailey 800/942-9418 x111
Huesker, Inc.

Safety
Ed Pettigrew 505/598-4353
BHP Billiton

Since we just had a presidential election, can you answer the following? What two U.S. presidents died on the 50th Anniversary of the signing of the Declaration of Independence?

John Adams and Thomas Jefferson.

Board of Directors Meeting Minutes

The minutes for the January 16, 2009 Board of Directors meeting may be found on the website at www.rmcmi.org in the Member Area.

Patrons

Thank you,
Patrons, for
your continued
support of this
important
program.

The Patron program is ready to go for 2009. Patron Co-Chairs **Clark Moseley** and **Becki Boam** are planning on a great year. Becki has recently sent out the notices to those that have participated in the past.

To those that have not been a Patron, we invite you to give to a very worthy program ... giving scholarships to college students. Call 303/948-3300 for info.

New Board Regional Director Nominee

Bruce Lindsay has been nominated by the Board of Directors, at their January meeting, to stand for election at the June Annual Membership Meeting. Other nominations may be made from the floor. If elected, he will sit on the Board as a Regional Director for a two-year term.

Bruce Lindsay is the Manager of Human Resources for Arch Western Bituminous Group, LLC (AWBG), a wholly owned subsidiary of Arch Coal Inc. based in Grand Junction, Colorado. He has a Bachelor of Science Degree in Occupational Safety and Health from Utah State University and has over 30 years of experience in the mining industry having held managerial positions in health and safety, coal handling and human resources.

Joining RMCMI in 1991, Bruce became active in 1993 as a Membership Director for Utah. He held that position for three years and has also been the Convention Golf Chair for many years.

He has served on the board of the Tri-County Health Foundation in central Utah for several years. Married to Dee, an elementary school teacher, they have two grown children, Krysta and Kyle. They enjoy sports, outdoor activities and traveling with family and friends.



New Board Regional Director Nominee

Richard Bailey has been nominated by the Board of Directors, at their January meeting, to stand for election at the June Annual Membership Meeting. Other nominations may be made from the floor. If elected, he will sit on the Board as a Regional Director for a two-year term.

Since 2002 **Dick Bailey** has been president of his company, *CONetic Resources, Inc.*, a manufacturers' representative agency, serving the coal and metals mining industry in the area of bulk materials handling conveyors. Dick stays busy with 1 employee covering 7 western states. Prior to forming his own company, he worked for over 20 years for Continental Crushing & Conveying, (A Joy Global Company) formerly Continental Conveyor & Equipment Company, Inc. At Continental he worked in various capacities as Regional Manager and District Manager serving customers in the coal and metals industry in the western half of the USA. Earlier in his career he worked for Applied Physics Lab with Johns Hopkins University and worked with Stearns Roger in the Power Division in Denver and spent some time with his own construction company building log homes in the Montrose, Colorado area.

He has a degree in Mechanical Engineering from Colorado State University and is a registered Professional Engineer in Colorado. He has served RMCMI as the VP of Colorado and assisted in some committee activities since joining RMCMI twenty-five years ago in 1984.

Dick is an active member of SME and serves on the Bulk Materials Handling Committee as he has since its inception in 1992. He has served in the community of Golden, Colorado, where he resides, on the Parks and Recreation Advisory committee from 1984 thru 1997. He has also been active in his local church serving on the Vestry Board and as Chair of the Building Committee to oversee a new construction addition.

He has been married to Karin for 26 years and has 5 wonderful children, Kirsten, Janet, Steven, Derek and Kyle (the latter two currently in college) and 5 grand children. He loves to work out at the gym, run the Bolder Boulder, ski, golf and mostly vacation with his family when he is not at work.



RMCMI Testimonial

What do Associations mean to you?

By **Bob Bartosh**

Former RMCMI President
Senior VP and COO of
Dakota Coal Company



Twenty eight years ago, in 1991, **Dean Peterson** from *North American Coal* convinced me to become a member of Rocky Mountain Coal Mining Institute. As a young member of the coal community, I thought I should take his advice. I did not participate for many years, however, as I was busy building my career and raising my family.

In 1998 my daughter **April** received an RMCMI scholarship. At that time I felt it was important to find out more about this organization. I went to the 1998 convention in Snowmass, Colorado so that I could witness my daughter receiving her scholarship. I witnessed so much more.

Because of my years in the industry I knew many of the members at the convention. However, there were so many others that I had the opportunity to meet. It was easy to see that this was not the “normal” industry meeting. There were Mine Rescue teams there for a three-day evaluation; a short course was being held prior to the convention for CEU credits for the professional engineers; there were children everywhere having a wonderful time with their families; a golf tournament and tennis tournament started the weekend; a wonderful evening reception offered the adults a chance to renew friendships and meet new friends; and, of course, there were outstanding speakers during two days of meetings for the members. On Monday evening over 700 members and family members gathered for a participatory rodeo and BBQ. It was a wonderful evening for everyone.

I immediately became more involved as this was an organization that not only cared about the industry, but cared about its members. The scholarship program

sealed the deal. Showing interest, I was asked to be Vice President for the state of North Dakota. This offered me the opportunity to learn how the Institute operated by attending the meetings a few times a year. Eventually I was voted to sit on the Board of Directors and became President of the Institute in 2005-06.

Since that time I have been part of the 2007 Blue Ribbon Commission II. This group spent six months reviewing every aspect of the Institute and planning the direction for the future. It was an excellent opportunity to help direct the Institute into the future. I also was instrumental in putting together a Fiscal and Financial Policy for the organization. The intent for all of these projects was to make sure that RMCMI was conforming to all the necessary directives of a 501(c)(3) non-profit.

So what’s the point of this letter? I had no idea how much I would learn, and gain, from my involvement in RMCMI. Many people do not realize how valuable an organization like this can be. It doesn’t take much to become involved. We found out last year during the Blue Ribbon Commission that some of our members were just waiting to be asked to be involved.

I had no idea how much I would learn, and gain, from my involvement in RMCMI.

I am asking you now ... especially our younger members. We need you to take an active role so that we have the vision, leadership and dedication in place to keep our 97-year-old association going strong. There is so much we can do to help the industry. Just make the phone call – or send an e-mail to the office. There are positions that you can help with that take as little as 3 hours a year to those that may take up to 3 hours a month.

You can help the Institute even if you can’t volunteer at this time. Our 100th

Anniversary is fast approaching. In 2012 we will have a celebration at the Annual Meeting and Convention when we celebrate that very special achievement. The Board of Directors has asked that we try to double our membership by then.

The idea ... every member get just one new member. Just 10 minutes of your time, talking to someone you probably see everyday ... or maybe one of your vendors, or clients, can make all the difference to the Institute.

The idea ... every member get just one new member. Just 10 minutes of your time, talking to someone you probably see everyday ... or maybe one of your vendors, or clients, can make all the difference to the Institute. Please look around and see who you believe would benefit from membership. Membership includes state meetings with industry speakers, the Annual Convention and Short Course that offers outstanding speakers, PDH credits and great times with family and friends. Membership also supports the Mine Rescue Evaluations and, most importantly, as I mentioned earlier, RMCMI provides scholarships. We recently added Technical Scholarships. Seven out of the 8 first year technical scholarships were awarded to students in ND because I got the word out. We give \$40,000 each year to help support students so that they can be productive members of the mining community. That, alone, is reason to join.

I got involved at the convention in Snowmass. You could do the same. The 2009 convention is in Snowmass. Hope to see you there ... with your family.

Public Relations in Utah

"What's Yours is Mined"

The Mining Engineering students at the University of Utah designed and produced a "*Mining Tree*" to include in the annual Festival of Trees in Salt Lake. The proceeds from the sale of items donated to the Festival go to the **Primary Children's Hospital**. In the recent past, proceeds have totaled over \$1.5 million. This is a very large event and draws thousands of people from all over.

Judy and **Dr. M.K. (Kim) McCarter** helped out at the auction which was held prior to the public viewing of the trees and other Christmas items. The auction on the "*Mining Tree*" went very well. A silent auction is held for several hours. Items for which there are several bidders often go to a closed bid to resolve who gets the item. There were several competing bidders for the Mining Tree so the final bidder was selected by closed bid. The tree sold for a very nice sum!

Materials and funds were donated by mining companies and the students involved in the project, also contributed. In all, it took about five months for the students to collect the items and cash donations to create the tree. The entire proceeds of the sale of the tree go to the Children's Hospital.

Kim was very proud of the students. They chose to do this entirely on their own. Not only are they excellent students academically, but society really needs people of their integrity, commitment and compassion. Their two objectives (see description) were accomplished in large measure.

Jon Heiner, (see upper picture - person on right) is a 2007 RMCMI scholarship recipient and played an important role in the project. Jon Warner (on the left) was the "organizer" and involved a number of other Mining students.

It is satisfying to see our youth so involved.



Festival of Trees

Everything we have that can't be grown has to be mined. We're depending on mining even while at the Festival of Trees, from the metal in the roof beams, to the limestone in the cement floor, to the coal powered lighting that make the trees shimmer. The University of Utah Mining Engineering Department is always looking for ways to remind the public how vital mining is and how responsible miners are today. One of our students also volunteers at Primary Children's Medical Center in the LDS Branch and visits patients at the hospital every Sunday. Since he personally knew how much patients and families rely on Primary Children's fund raisers to provide the best care, he decided to involve the other students in the Mining Department to create a tree to promote both causes.

We've Heard From

Murray Snyder wrote Bob Bartosh that his daughter, **Kelsey**, a 2007 scholarship recipient graduated from the University of North Dakota in December 2008 in only 3.5 years. She maintained a 4.0 GPA in Environmental Geoscience. She is hoping to gain employment in a Power Plant or Mining industry in North Dakota. He says that her concern and dedication to utilize coal and apply clean technology and promote good stewardship of our environment is inspiring.



Upon which president's arguments did President Abraham Lincoln base the Emancipation Proclamation?

Upon the 6th president John Quincy Adams' assertions as a congressman.

Stubblefield to Step Down as Convention Liaison Officer



GARY STUBBLEFIELD

Most members of RMCMI know **Gary Stubblefield**. Gary joined the Institute 25 years ago in 1984 ... the same year as the start of the Scholarship Program. After serving as a Vice President for Utah, he was asked to be on the Board of Directors. Gary was President of RMCMI in 1993-94. He then went on to help as Program Chair in numerous years, garnering speakers for the Annual Meeting and Convention. In 2000 **Loren Linville**, the RMCMI Convention Liaison Officer for 18 years, retired from that position. Gary accepted the offer from the Board to step into the role and this is his ninth Convention in that position.

In 2007, RMCMI presented Gary with the Life Member Award for his outstanding, and continuous service to the Institute.

He is also a member of SME, a Professional Engineer, a mentor encouraging young engineers to seek careers in coal and, in his free time, a woodworker who makes rocking horses for his grandchildren.

All of this happens after fulfilling his professional duties as Vice President of Mining at *Norwest*. In recent years Gary has been doing a great amount of travel outside of the U.S. *Norwest* has been extremely supportive of Gary's involvement with RMCMI and the Institute is grateful to them for not only their support of Gary, but for the company's continued

support of the Patrons Program and the Sponsorships used to promote our educational endeavors.

The Board was disappointed to hear that Gary felt it was time to step down and encourage another member to take over the responsibilities of the Convention Liaison Officer position. It is with reservation that the Board accepted Gary's resignation. He has been a historian for the Board; a mentor for the "new guys"; a strong support for Karen, offering advice and opinions as requested, or needed; a tough, but fair, partner with Karen at Pre-con and Post-con meetings at the various convention sites; and, most importantly, a very good friend to all of us in the industry.

He will be missed at the quarterly Board meetings. We hope he will be present at the Colorado/Utah State Meeting and the Annual Meeting and Convention each year for a long time to come.

Gary, and his wife **Barbara**, live in Sandy, Utah. They have been individual Patrons, long supporting the Scholarship program. Barbara has attended all the conferences and included their two children when they were young. They have four grandchildren.

Thank you, Gary, for 25 years of exceptional service to the Institute.

WE WELCOME BOB BARTOSH AS THE NEW ADMINISTRATIVE LIAISON OFFICER

The Board of Directors, at their January 16, 2009 meeting, took the time necessary to review the Convention Liaison Officer position. The Bylaws state the duties of the CLO, but over the years the position has changed somewhat. It was agreed that the Bylaws would need to be changed at the June 30, 2009 meeting of the members to reflect the responsibili-

ties of this position. At the same time discussion took place to consider whether the title was still accurate. It was decided by the Board that the position was very important as a liaison between the office and the Board and membership. Still an important presence at the conventions, this person works with the office year-round. The name "Administrative Liaison Officer" had been suggested by former RMCMI President, **Curt Belden**. It was voted on to accept the name change and that, too, will be voted on at the Annual meeting.

The next item on the agenda was to select a new person to take this position. We were very fortunate in that we had three extremely qualified former Presidents of the Institute that wished to be considered for the position. As lucky as we were to have a choice, it was very difficult to choose just one. But, that is what the Board of Directors had to do.

The Board nominated **Bob Bartosh**, a Senior VP and COO of *Dakota Coal Company* in Bismarck, ND. He is a former President of RMCMI and was Chair of the Blue Ribbon Commission II Committee. He is a very strong believer of the Scholarship Program and is a Personal Patron. *Dakota Coal* has been an outstanding supporter of the Institute giving both as a Company Patron and a yearly Sponsor for Convention and the Tri-State meeting.

Bob and Debra live in Bismarck. Their children are grown and they have the good fortune of being grandparents. Their daughter, April, was an RMCMI Scholar.

The Board will vote on this nominee at their June 28, 2009 Board meeting. Congratulations, Bob.



ROBERT BARTOSH

Fifty Years Ago ...

Fuel for Tomorrow's Power

By R. T. Person, President, Public Service Company of Colorado, Denver

This is a part of a reprint from the June 1959 Convention at the Antlers Hotel in Colorado Springs, CO.

Coal is the most familiar, but perhaps the least appreciated mineral in the world. As an energy source, its use in the production of electricity alone marks it as a major mineral, and added to this are its other fuel applications and many chemical by-products.

Little is known about the first men who perhaps accidentally spilled these black rocks on their campfires and watched in amazement as the coal sparked and took fire, but there is strong archeological evidence that people in Wales used coal 3,000 years ago. The Greeks first mentioned coal; Theophrastus, a pupil of Aristotle, used the word "anthrakes" in 371 B.C. The British, who were the first to mine and use coal on a large scale, appropriately fathered the word coal, which started off as "kohle," grew into "cole" or "colle," and finally changed into its modern form in the 17th century.

Coal was discovered in the United States in 1673 by the French explorers, Louis Joliet and Jacques Marquette, near Utica, Illinois

Coal was discovered in the United States in 1673 by the French explorers, Louis Joliet and Jacques Marquette, near Utica, Illinois, but over 70 years passed before coal was mined, and sold commercially near Richmond, Virginia. Many small mining compa-

nies were formed in the 1830s in the Appalachian Regions and along the Ohio, Illinois, and Mississippi Rivers, but few survived due to the lack of capital, small markets, and inadequate and expensive transportation facilities. The industry did not mine its first million tons until the 1840s; but soon after, the advent of railroads opened up a vast new market for coal and also provided a rapid and extensive transportation system. Since then coal has helped many industries grow and expand to their present size, and electric utility plants, nonexistent 100 years ago, now are the industry's largest single customer. It is interesting to note that within the brief period of ten years, the electric power industry has taken over that distinction from the railroads.

Let us take a look at Colorado's electric power industry, as a median example of the Rocky Mountain states. The installed capacity of all plants in the state in 1958 was 1,088,000 kilowatts, 2.3 times the plant capacity of 1950. The present proportion by type of prime mover is almost identical to the percentages I quoted for the national picture. By 1975, the installed capacity in Colorado will triple to about 3,300,000 kilowatts, with the additional capacity primarily installed in thermal stations, as the generation of electric power by steam turbine-generators has now reached a point of attractive economy. Generating efficiencies have been increased and construction "unit-costs" have been reduced by installation of optimized large-capacity units to serve the requirements of energy-consumer demands.

The energy demands of the mushrooming western states will be evidenced by their electric requirements as residential, commercial, and industrial customers. The recession did little to bend the upward trend of residential

power use which, historically, has grown to a 10.9 percent rate, compounded annually, in the last decade. Residential electric sales in Colorado are conservatively estimated to reach 3.3 billion kilowatt-hours by 1965, an increase of 120.0 percent over 1958.

Today's home-buyer is looking for space, with more of everything - closets, cupboards, bedrooms, and baths - and in many cases, more secondary living area, in the form of "family rooms," recreation areas, and finishing basements. The effect will be to increase annual residential electric consumption in 1965 by almost 50 percent to a conservative estimate of 4500 kwh per customer.

A previous "phantom," now a stirring "sleeping giant" is residential electric heating.

Another factor for residential electric load growth is represented in the expanding promotion of off-peak appliances. New or "Phantom" appliances now on the drawing boards will contribute to load growth, as appliance manufacturers begin to utilize new engineering concepts developed by research laboratories. A previous "phantom," now a stirring "sleeping giant" is residential electric heating. With an energy requirement of 17,000 kwh per year per electrically-heated home, a developing trend to this comfort-heat source would stimulate residential load growth perhaps beyond the limits of predictability. As far as the coal industry is concerned, electric heating will no doubt be welcome since, for every btu of electric heat that is consumed in a home, a larger number of btu's in coal has to be consumed in utility system generating plants in order to produce the electric btu.

Growth rates of commercial electric energy requirements are conserva-

tively predicted at about 9.0-10.0 percent per year. Many factors support the commercial growth projections - steady population increase producing a need for more schools, the trend toward better display of merchandise and more customer comfort, and the continuation of suburban area growth with more shopping centers being developed. Projection of trend lines on usage per commercial customer leads to an optimistic 30,000 kwh annual per customer use by 1965.

Industrial growth is still in its infancy in the West. Over a billion dollars will be spent for growth and expansion by manufacturing industries in the West this year, with 319 new industries accounting for over half of the total expenditure and 667 existing industries spending the remainder on expansion.

How much of this rapidly increasing kilowatt-hour load will be supplied by coal-burning plants?

Steam-electric sources of energy hold one big advantage over hydroelectric installations, in that they may be located at or near load centers, with a reduction in the transmission system required to deliver electric power to the market. The Rocky Mountain Area presently has relatively few hydroelectric sites economically feasible for development and the planning of steam generating installations to carry future loads is being accelerated.

The general terrain of the Rocky Mountain Region makes for an ideal source of falling water, but generally speaking, the source of power is located remotely from established industrialized areas and generation costs become excessive as a result of transmission line investment.

Also, since this Western area is a semi-arid region, the demand for irrigation water is great and the use of water for hydro-electric power genera-

tion must be subservient to the more vital domestic, agricultural, and industrial uses. Commissioner of Reclamation Floyd E. Dominy reports that "...areas affected by drouth are dependent upon reservoir storage to mature summer crops. Hydropower production has been reduced and water supplies are being husbanded for irrigation."

Hydropower production has been reduced and water supplies are being husbanded for irrigation.

One significant source of hydroelectric potential is the Colorado River. The Colorado River Storage Project will ultimately make available some 1.2 million kilowatts of hydroelectric capacity to the area according to project plans. It is interesting to note that in 1975, when maximum generation is scheduled from the project, the installed capacity will be only 12.5 percent of the capacity planned by the private electric utilities serving the five-state market area.

It is stated in the *Colorado Yearbook*, if all the water power in the West were harnessed in electric production, only 35 to 40 percent of the power requirements of Western America would be supplied in 1975, with thermal stations being called upon to produce more than 55 percent of the electric energy required in two decades of growth ahead.

There are 50 billion tons of coal deemed economically recoverable in Colorado which would serve the present production of 3,000,000 tons per year for 17,000 years.

Needless to say, the portent of competitive nuclear power coupled with the potential of oil shale by-product gas and fuller utilization of natural gas fuels may well be a challenge to the coal industry in bidding for the fuel supply to this optimistic growth pattern of thermal-generated energy. Any fuel source could be priced out of the running long before its recoverable reserves are used up. The National Coal Association estimates 400 to 500 years' supply for the nation mineable at or near present day prices. There are 50 billion tons of coal deemed economically recoverable in Colorado which would serve the present production of 3,000,000 tons per year for 17,000 years. Looking ahead of 1975, the demands of Colorado's major coal burning industries - utility, steel, and sugar - at that time could be served for 5,000 years.

The article also discusses the other fuel prospects at the time such as oil shale, thermal energy, fissionable fuels and nuclear energy. It comments on the mechanization available, the relationship between fuel supplier and utility, and the problems with the rail system. Because of space, the areas directly relating to coal were highlighted.

EVERY MEMBER GET A MEMBER!

The RMCMI Membership Committee has put together a campaign for every member to get a member so that by our 100th Anniversay we will have a strong base of 1,000 plus members.

The industry is strong. It was only 25 years ago that RMCMI had over 1,000 members. We can get there again with your help.

Convention Sponsors

CONVENTION SPONSORS

The following companies have committed to sponsorships for the June 2009 RMCMI Convention. We thank them for their continued support.

Additional sponsorships are still available. Go to the RMCMI website, www.rmcmi.org, and go to "Sponsorship Opportunities" on the right side of the home page. Sponsorships are shown in that area.

Headline

Basin Electric Cooperative
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Closing Lunch

Arch Western Bituminous Group

Golf Beverage Cart

Chevron Mining

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Butler Machinery, Cate Equipment,
Safety Solutions Int'l., Thermo-
Fisher Scientific, WWC Engineering

Website Sponsor

Rocky Mountain Coal Mining Institute is pleased to announce that **Murray Energy Corporation** has sponsored the RMCMI website for the fifth year.

Bob Murray, President and CEO, is a former RMCMI President and also received Life Membership designation from the Institute.



IN MEMORIAM

It is with deep sadness that we report the death of

Michael Provenza

A retired Mine Engineer at Chevron, Mike joined RMCMI in 1992. He was a NM Vice President for RMCMI from 1998-2000. Mike, Beverly and boys attended many RMCMI meetings and Conventions.

You can reach Beverly at:
17197 Panorama Ct.
Montrose, CO 81403-8604

New Members

New Members

(Joined between 10/21/08 and 2/2/09)

Mr. Silas Hatch-Student Member
Colorado School of Mines
Golden, CO

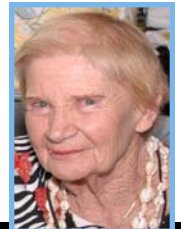
Mr. Rick Hoggan
Millcreek Engineering
Salt Lake City, UT

Mr. Brian Lee
Dakota Westmoreland
Beulah, ND

Mr. Ryan Sharp
WBM Consulting Engineers
Englewood, CO

Mr. Jason Vollmer
Warren Transport, Inc.
Billings, MT

Mr. Lyall Workman
Calder & Workman, Inc.
Bismarck, ND



IN MEMORIAM

It is with deep sadness that we report the death of

MAE ZIMMERMAN

Mae was the wife of Don Zimmerman, RMCMI member since 1968, and Life Member. She attended most conventions over the years ... always with a smile on her face. She loved the RMCMI.

You can reach Don at:
832 Westwood
Richardson, TX 75080

President Ken Miller's Message on Safety!

"WHAT'S YOUR STRATEGY?"

The start of a new year always brings optimism for an Accident-Free year at every coal mine in the country. This is especially true as **2008 had the lowest number of fatalities in U.S. Mining history!** As an amateur historian, I marvel at the monumental improvements to safety performance made over the last century. In those early decades of the 1900's, when the contract miner's safety strategy was likely "*every man and crew for themselves*"; the loss of life was shocking. It was 1946 before the U.S. coal mine fatality rate dropped below 1,000 and 1983 when the 100 barrier was broken. Every coal miner in the country wants to see the record low of 23 fatalities be taken to **ZERO**.

Over the course of my career, I've seen different safety strategies evolve. Those strategies have transformed from "*Reliance on the Safety Man*"; into motivation by rewarding group performance. Not many years ago, I worked for a General Manager who challenged us by saying; "*What can we do to break through the current plateau of safety results.*" I'm excited to say that I've witnessed that breakthrough!

For over twenty years, behavior-based safety programs have slowly become the fabric of American industry. Behavior-based programs have rewritten the standards by which we

measure safety performance. Today, an annual Incident Rate of 0.7 could be one injury requiring sutures in a workforce of 150 employees. Thankfully, 'Incident Rate' has replaced the common 1960's phrase of 'Fatalities per Million Man-Hours'!

Thankfully, 'Incident Rate' has replaced the common 1960's phrase of 'Fatalities per Million Man-Hours'!

Here is the irony! Just a few years ago, I attended a four-hour MSHA-led training program. During that session, the terms *regulation*, *violation*, *citation*, and *obligation* were used repeatedly. Not **once** was the word *behavior* mentioned. Many in Congress are complicit with MSHA in perpetuating the "*Reliance on the Safety Man*" strategy for safety performance. What is that word defined by doing the same thing over and over, and wishing for different results?

During that session, the terms *regulation*, *violation*, *citation*, and *obligation* were used repeatedly. Not **once was the word *behavior* mentioned.**

Having been a maintenance supervisor and manager, I am empathetic to all the front line leaders in our coal mines. Their responsibilities for safety fall into two categories:

- 1) risk minimization in daily work planning and job execution, and
 - 2) MSHA compliance activities.
- Over the years, these have become separate activities.

Last fall, **Dr. Grainne Matthews** of **Quality Safety Edge** presented "*The Behavior-Based Safety Approach in Surface Coal Mining*" to those attending the Tri-State meeting in Sheridan, WY. This spring, **Carmen Bianco** of **BST** will make a similar presentation to the Colorado-Utah State Meeting in Price, Utah on May 14-15. At last year's Convention, **Dave Lauriski** of **Safety Solutions International** spoke on "*The Dynamics of Managing Safety in a Politicized Environment.*" I invite you to join us in Price, UT or at Convention in Snowmass, Colorado to hear the latest on the most important topics of our business. The improvement in the coal industry's safety record should be all that you need to see that these systems work.

Keep thinking and behaving SAFELY!

Institute Website Preparing for Additional Features

A lot of work has been going into the RMCMI website over the last year. Online renewals and registrations are available this year for your convenience. Educational features, such as a coal quiz, were put on both for the educational value as well as for your enjoyment. Additional features we hope to incorporate later this year are job postings and professional development courses. Please check back often to see what is available at www.rmcmi.org.

We welcome any suggestions you may have to make the website a valuable asset for the Institute to reach out to our members and to the public.

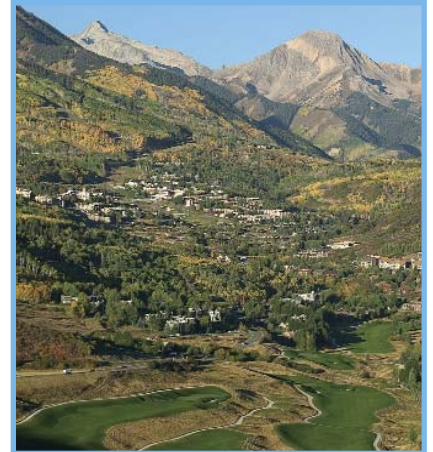
Convention News

SNOWMASS VILLAGE, COLORADO
 105th Convention and Annual Meeting
"Into the Headwinds of Change"
 June 28-30, 2009

It has been eleven years since we enjoyed the Aspen area at the Silvertree Hotel in Snowmass Village, Colorado.

Planning is almost complete for the program that will highlight the coming needs of the industry, with a strong emphasis on safety, as well as an exciting Keynote Speaker, Gene Kranz - Apollo 13 Flight Control Director.

We hope you will plan to join us. Mark your calendars now and watch for information in the spring of 2009.



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